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About SnapCenter commands for SnapCenter Plug-ins Package for Linux

The command reference document is a compilation of all the manual (man) pages for SnapCenter Plug-ins Package for Linux.

The commands can be executed from /opt/NetApp/snapcenter/spi/bin/sccli to perform data protection operations. The logs are stored at /var/opt/snapcenter/logs.

The following are common tasks you might perform using the Linux commands:

- Backing up Oracle databases
- Restoring and recovering Oracle databases
- Cloning Oracle database backups

Backing up Oracle databases using Linux commands

The backup workflow includes planning, identifying the resources for backup, creating backup policies, creating resource groups and attaching policies, creating backups, and monitoring the operations.

Before you begin

- You must have added the storage system connections and created the Run As account using the commands Add-SmStorageConnection and Add-SmRunAs.
- You must have established the connection session with the SnapCenter Server using the command Open-SmConnection.
  
  You can have only one SnapCenter account login session and the token is stored in the Linux user home directory.

  **Note:** The connection session is valid only for 24 hours. However, you can create a token with the TokenNeverExpires option to create a token that never expires and session will always be valid.

About this task

You must execute the following commands to establish the connection with the SnapCenter Server, discover the Oracle database instances, add policy and resource group, backup and verify the backup.

For detailed information on Linux commands, use the SnapCenter command help or see the command reference information.

Steps

1. Initiate a connection session with the SnapCenter Server for a specified user: Open-SmConnection

2. Perform host resources discovery operation: Get-SmResources

3. Configure Oracle database credentials and preferred nodes for backup operation of a Real Application Cluster (RAC) database: Configure-SmOracleDatabase

4. Create a backup policy: Add-SmPolicy
5. Retrieve the information about the secondary (SnapVault or SnapMirror) storage location: `Get-SmSecondaryDetails`

   This command retrieves the primary to secondary storage mapping details of a specified resource. You can use the mapping details to configure the secondary verification settings while creating a backup resource group.

6. Add a resource group to SnapCenter: `Add-SmResourceGroup`

7. Create a backup: `New-SmBackup`

   You can poll the job using the `WaitForCompletion` option. If this option is specified, then the command continues to poll the server until the completion of the backup job.

8. Retrieve the logs from SnapCenter: `Get-SmLogs`

Restoring and recovering Oracle databases using Linux commands

The restore and recovery workflow includes planning, performing the restore and recovery operations, and monitoring the operations.

**Before you begin**

- You must have established the connection session with the SnapCenter Server.

**About this task**

You must execute the following commands to establish the connection with the SnapCenter Server, list the backups and retrieve its information and restore the backup.

For detailed information on Linux commands, use the SnapCenter command help or see the command reference information.

**Steps**

1. Initiate a connection session with the SnapCenter Server for a specified user: `Open-SmConnection`

2. Retrieve the information about the backups that you want to restore: `Get-SmBackup`

3. Retrieve the detailed information about the specified backup: `Get-SmBackupDetails`

   This command retrieves the detailed information about the backup of a specified resource with a given backup ID. The information includes database name, version, home, start and end SCN, tablespaces, pluggable databases, and its tablespaces.

4. Restore data from the backup: `Restore-SmBackup`

Cloning Oracle database backups using Linux commands

The clone workflow includes planning, performing the clone operation, and monitoring the operation.

**Before you begin**

- You must have established the connection session with the SnapCenter Server
About this task

You must execute the following commands to create the Oracle database clone specification file and initiate the clone operation.

For detailed information on Linux commands, use the SnapCenter command help or see the command reference information.

Steps

1. Create an Oracle database clone specification from a specified backup: New-SmOracleCloneSpecification

   This command automatically creates an Oracle database clone specification file for the specified source database and its backup. You must also provide a clone database SID so that the specification file created has the automatically generated values for the clone database which you will be creating.

   **Note:** The clone specification file is created at /var/opt/snapcenter/sco/clone_specs.

2. Initiate a clone operation from a clone resource group or an existing backup: New-SmClone

   This command initiates a clone operation. You must also provide an Oracle clone specification file path for the clone operation. You can also specify the recovery options, host where the clone operation to be performed, prescripts, postscripts, and other details.

   By default, the archive log destination file for the clone database is automatically populated at $ORACLE_HOME/CLONE_SIDs.
Add-SmPolicy - Creates a new backup policy.

**Description**

Creates a new backup policy. A policy is a set of rules governing backup jobs. A Policy includes backup type, schedules, retention, replication settings, verification schedules, and pre-script and post-script arguments.

**Usage**

```
sccli Add-SmPolicy -PolicyName <policy name> -PolicyType <policy type> [-PluginPolicyType <plug-in policy type>] [-Description <description>] [-UpdateSnapMirrorAfterbackup] [-MirrorVaultUpdateRetryCount <retry count>] [-UpdateSnapVaultAfterbackup] [-SnapVaultLabel <label>] [-ScheduleType <HOURLY|DAILY|WEEKLY|MONTHLY>] [-VerificationScheduleType <HOURLY|DAILY|WEEKLY|MONTHLY>] [-VerificationScriptoptions ScriptTimeout=timeout|PreScriptPath=verification-script-path|PostScriptPath=verification-script-path|PreScriptArguments=verification-script-arguments|PostScriptArguments=verification-script-arguments] [-RetentionSettings <BackupScope=DATA|LOG,_SCHEDULETYPE=HOURLY | DAILY | WEEKLY | MONTHLY, RetentionCount=number-of-snapshot-count-to-keep-or RetentionDays=number-of-days-tokeep-snapshot>] [-PreScriptPath <script path>] [-PreScriptArguments <arg1 arg2 ... argN>] [-PostScriptPath <script path>] [-PostScriptArguments <arg1 arg2 ... argN>] [-ScriptTimeout <timeout>] -OracleBackupType <ONLINE | OFFLINEMOUNT | OFFLINESHUTDOWN> -OracleBackupScope <FULL | DATA | LOG> -OracleBackupScope <AllDestinations> -OracleDeleteArchiveLogBackupRetentionType <DayBase | CountBase> -OracleDeleteArchiveLogBackupRetentionType <DayBase | CountBase> -OracleDeleteArchiveLogBackupRetentionType <AllDestinations> -OracleDeleteArchiveLogBackupRetentionType <AllDestinations> -OracleDeleteArchiveLogBackupRetentionType <AllDestinations> -OracleDeleteArchiveLogBackupRetentionType <AllDestinations> -OracleDeleteArchiveLogBackupRetentionType <AllDestinations> -CatalogBackupWithOracleRMAN
```

**Parameters**

- **-PolicyName**
  Specifies the name of the policy.

- **-PolicyType**
  Specifies the policy type.
  Possible Values: [BACKUP]

- **-PluginPolicyType**
  Specifies the plug-in type. You need to specify a plug-in type because policies are settings that are specific to a type of plug-in. For example, if you want to create a policy for Oracle resources or Oracle resource groups, the plug-in type is SCO.
  Possible Values: [SCO, SCU]
  Default: SCO

- **-Description**
  Provides a description of the policy.

- **-UpdateSnapMirrorAfterbackup**
  Indicates that you want to update the SnapMirror relationship after the backup operation. SnapMirror is disabled by default.
- **MirrorVaultUpdateRetryCount**
  Specifies the retry count for SnapMirror or SnapVault update.
  Default: 3

- **UpdateSnapVaultAfterbackup**
  Indicates that you want to update the SnapVault relationship after the backup operation. SnapVault is disabled by default.

- **SnapVaultLabel**
  Provides a SnapVault label.

- **ScheduleType**
  Specifies the scheduler type.
  Possible Values: [HOURLY, DAILY, WEEKLY, MONTHLY]

- **VerificationScheduleType**
  Specifies the verification scheduler type.
  Possible Values: [HOURLY, DAILY, WEEKLY, MONTHLY]
  Only backup schedule type can be part of verification schedule type. If the schedule type is not part of backup schedule type then it cannot be added to verification schedule type.

- **VerificationScriptOptions**
  Specifies verification script options, which are run after verification of backup, arguments are optional you can specify only required once. For SnapCenter Plug-in for Oracle Database, any executable script should be located at '/var/opt/snapcenter/spl/scripts' or any directory underneath scripts folder and the complete absolute path must be specified. Multiple arguments can be specified in a space separated list. For example: 'arg1 arg2 arg3'. For example: -VerificationScriptoptions ScriptTimeout=10,PreScriptPath=/var/opt/snapcenter/spl/scripts/name-of-the-script,postScriptPath=/var/opt/snapcenter/spl/scripts/name-of-the-script,PreScriptArguments=arg1 arg2 ... argN,PostScriptArguments=arg1 arg2 ... argN

- **RetentionSettings**
  Specifies the retention period of the backup. Retention count specifies the number of backups that you want to keep. If the number of backups exceed the specified number, the backups are deleted with the oldest backup deleted first. Retention days specifies the number of days for which you want to keep the Snapshot copies before deleting them. If the retention period is not specified, the default retention period of RetentionCount=7 will be applied to schedule type of the backup scope. You can specify RetentionCount or RetentionDays but not both. If SCHEDULETYPE is not specified, then retention period is applied to on-demand backup policy. For example: -RetentionSettings BackupScope=DATA,SCHEDULETYPE=HOURLY,RetentionCount=2, -RetentionSettings BackupScope=DATA,SCHEDULETYPE=DAILY,RetentionDays=10, -RetentionSettings BackupScope=LOG,RetentionDays=10.

- **PreScriptPath**
  Specifies the prescript path. For SnapCenter Plug-in for Oracle Database, any executable script should be located at '/var/opt/snapcenter/spl/scripts' or any directory underneath scripts folder and the complete absolute path must be specified.

- **PreScriptArguments**
  Specifies the prescript arguments. Multiple arguments can be specified in a space separated list. For example: 'arg1 arg2 arg3'.

- **PostScriptPath**
Specifies the postscript path. For SnapCenter Plug-in for Oracle Database, any executable script should be located at '/var/opt/snapcenter/spl/scripts' or any directory underneath scripts folder and the complete absolute path must be specified.

- **PostScriptArguments**

Specifies the postscript arguments. Multiple arguments can be specified in a space separated list. For example: 'arg1 arg2 arg3'.

- **ScriptTimeout**

Specifies the script timeout value in seconds. If not specified, the default value is 60 seconds.
Default: 60

- **OracleBackupType**

Specifies the type of Oracle Database backup.
Possible Values: [ONLINE, OFFLINEMOUNT, OFFLINE SHUTDOWN]

- **OracleBackupScope**

Specifies the scope of Oracle Database backup.
Possible Values: [FULL, DATA, LOG]

- **OracleSkipPDBSaveState**

Indicates whether to skip saving the state of pluggable databases.

- **OracleDeleteArchiveLogBackup**

Indicates whether to delete the older archive log backups based on ArchiveLogBackupRetentionType.

- **OracleArchiveLogBackupRetentionType**

Specifies the retention type for archive log backup.
Possible Values: [DayBase, CountBase]

- **OracleDeleteArchiveLogBackupDays**

Specifies the number of days for which the archive log backups must be retained before deleting.

- **OracleDeleteArchiveLogBackupCounts**

Specifies the maximum number of archive log backups to be retained.

- **OraclePruneArchiveLog**

Indicates whether to prune archive logs after log backup.

- **OraclePruneArchiveLogDestinationType**

Specifies the type of destinations to prune archive logs.
Possible Values: [AllDestinations, OnlyBackupDestinations]
Default: AllDestinations
- **OraclePruneArchiveLogType**
  Specifies the type of archive log pruning.
  Possible Values: [AllLogs, OlderLogs]

- **OraclePruneArchiveLogOlderThanDays**
  Specifies the number of days for which the archive log backups must be retained before pruned.

- **CatalogBackupWithOracleRMAN**
  Indicates whether the backup should be cataloged using Oracle Recovery Manager (RMAN).

**Examples**

1. The following example displays how to add an Oracle database backup policy with schedule in SnapCenter.

   ```
   [root@rhel-linux ~]# sccli Add-SmPolicy -PolicyName 'offline_data_daily'
   -PolicyType BACKUP
   -Description 'Offline Shutdown Data policy for an Oracle Database with schedule and
   retention'
   -PluginPolicyType SCO -OracleBackupType OFFLINESHUTDOWN
   -OracleBackupScope DATA
   -ScheduleType DAILY
   -RetentionSettings
   'BackupScope=DATA,RetentionCount=2,SCHEDULETYPE=DAILY'

   INFO: The command 'Add-SmPolicy' executed successfully.
   ```

2. The following example displays how to add an Oracle database backup policy with log pruning enabled.

   ```
   [root@rhel-linux ~]# sccli Add-SmPolicy -PolicyName 'oracle_logpruning'
   -PolicyType BACKUP
   -Description 'Online Data policy for an Oracle Database with archive log pruning
   set'
   -PluginPolicyType SCO -OracleBackupType ONLINE -OracleBackupScope FULL
   ```
3. The following example displays how to add an Oracle database backup policy pre and post scripts.

```
[root@rhel-linux ~]# sccli Add-SmPolicy -PolicyName 'backup_to_secondary_storage'
-PolicyType BACKUP
-Description 'Online Data policy for an Oracle Database with schedule and retention'
-PluginPolicyType SCO -OracleBackupType OFFLINEMOUNT
-OracleBackupScope DATA
-ScheduleType DAILY
-UpdateSnapMirrorAfterbackup -UpdateSnapVaultAfterbackup
-PreScriptPath '/var/opt/snapcenter/spl/scripts/prescripts/pre1.sh'
-PreScriptArguments 'true secondary start'
-PostScriptPath '/var/opt/snapcenter/spl/scripts/postscripts/post1.sh'
-PostScriptArguments 'true secondary stop'
```

INFO: The command 'Add-SmPolicy' executed successfully.

4. The following example displays how to add policy with verification schedule type and retention settings.

```
[root@rhel-linux ~]# sccli Add-SmPolicy -PolicyName 'policy_with_verification_schedule'
-PolicyType BACKUP
-Description 'Policy with verification schedule type and retention settings'
-PluginPolicyType SCO -OracleBackupType ONLINE -OracleBackupScope FULL
-ScheduleType WEEKLY -VerificationScheduleType WEEKLY
-VerificationScriptoptions
```
scripttimeout=10,
preScriptPath=/var/opt/snapcenter/spl/scripts/p1.sh,
pstScriptPath=/var/opt/snapcenter/spl/scripts/p2.sh

-RetentionSettings 'BackupScope=DATA,RetentionCount=2,SCHEDULETYPE=WEEKLY'
-RetentionSettings 'BackupScope=LOG,RetentionDays=2,SCHEDULETYPE=WEEKLY'

INFO: The command 'Add-SmPolicy' executed successfully.

See Also
Add-SmProtectResource - Protect the resource by associating policies and schedules.

Description

Protects the resource by associating policies and schedules.

Usage

sccli Add-SmProtectResource [-Description <description>] [-PluginCode <SCO | SCU>] -Policies <policy1, policy2, ..., policyN> -Resource host=localhost.domain,type=Oracle Database,names=[db1] -Schedules PolicyName= name-of-the-policy,ScheduleType=[HOURLY | DAILY | WEEKLY | MONTHLY],StartTime=YYYY-MM-DD hh:mm:ss,EndTime=YYYY-MM-DD hh:mm:ss,Repeat_Every_Hour=hh:mm,DaysInterval=number-of-days,DaysOfTheWeek=[SUNDAY, MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY],MonthsOfTheYear=[January, February, March, April, May, June, July, August, September, October, November, December],DaysOfTheMonth=[1, 2, 3, ... 30, 31], -VerificationSchedules BackupPolicyName=name-of-the-backup-policy,BackupScheduleType=scheduletype-of-the-backup-policy,DeferredBackupCount=number-of-backup-count-to-be-deferred,VerifyOnSecondary=[true | false],VerificationTypeName=[VERIFY_AFTER_BACKUP | VERIFY_SCHEDULED],ScheduleType=[HOURLY | DAILY | WEEKLY | MONTHLY],StartTime=YYYY-MM-DD hh:mm:ss,EndTime=YYYY-MM-DD hh:mm:ss,Repeat_Every_Hour=hh:mm,DaysInterval=number-of-days,DaysOfTheWeek=[SUNDAY, MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY],MonthsOfTheYear=[January, February, March, April, May, June, July, August, September, October, November, December],DaysOfTheMonth=[1, 2, 3, ... 30, 31], -ExcludeArchiveLogDestinationsFromBackup 'location1,location2,...,locationN' -BackupArchiveLogsAfterRecentMissingOne -CustomSnapshot [-CustomSnapshotFormat $resourcegroup$policy$hostname$schedulename$customtext] -CustomText <custom text for snapshot name> -SecondaryLocator Primary=<SVM>:<volume>,Secondary=<SVM>:<volume> -EnableEmail -EmailTo <email address> -EmailFrom <email address> -EmailSubject <subject> -EmailPreference <ALWAYS | ON_ERROR | ON_ERROR_OR_WARNING | NEVER>

Parameters

- Description

Provides an optional description of the resource to be protected.

- PluginCode

Specifies the plug-in code for the resource to be protected. Possible Values: [SCO, SCU]

- Policies

Specifies one or more policies you want to attach to the resource. Multiple policies can be specified in a comma separated values.

- Resource

Specifies the resource you want to protect. You must provide the resource information in a key value format, and it must contain the resource name, type, and the host on which it is located. Valid type values are: Oracle Database. For example, -Resource 'host=host1,type=Oracle Database,names=[db1]'

- Schedules

Specifies the schedule you want to add to the resource. You must provide the schedule information in a key value format, and it must contain the policy name, schedule type, required schedule arguments depending on the schedule type and the start time. Schedule type can be HOURLY | DAILY | WEEKLY | MONTHLY. It is necessary to specify the required arguments depending on the schedule type. HOURLY: Repeat_Every_Hour - Specifies that you want backups to be created with an interval of a designated hour::minute. The default value is 1. DAILY: DaysInterval - Specifies that you want backups to be created with an interval of a designated number of days. The default value is 1. WEEKLY: DaysOfTheWeek - Specifies that you want backups to be created on designated days of the week. The values are specified in a comma separated list. MONTHLY: MonthsOfTheYear - Specifies that you want backups to be created on designated months. The values are specified in a comma separated list. DaysOfTheMonth - Specifies that you want backups to be created on the designated days of the month. The values are specified in a comma separated list. If EndTime is not specified, schedules will run indefinitely.

- VerificationSchedules

Specifies the verification schedules you want to add to the resource. Verification must be enabled for the schedule types specified in the policy to verify the backup. You must provide the verification schedules information in a key value format, and it must contain the backup policy name, backup schedule type, verification type. Depending on the verification type you need to specify other required schedule arguments. If verification type is VERIFY_AFTER_BACKUP then it is not required to specify the verification details. However, if it is VERIFY_SCHEDULED, then it is necessary specify schedule type and its related schedule arguments. These arguments are the same as you had specified for the -Schedules option. The verification schedule type cannot be lower than the backup schedule type. For example, if backup schedule type is WEEKLY then verification schedule type cannot be DAILY, it should be greater than or equal to WEEKLY.

- ExcludeArchiveLogDestinationsFromBackup

Specifies the archive log destinations to be excluded from backup. Archive log files present in the specified destinations will be excluded during log backup. Multiple entries can be specified using comma separated list. For example: -ExcludeArchiveLogDestinationsFromBackup '/arch/logs/on/local/disk1', '/arch/logs/on/local/disk2'.

- BackupArchiveLogsAfterRecentMissingOne

Specifies that you want to backup archive log files, which are created after the most recent missing archive log files and ignore the files created prior to it. If this option is not specified then all archive log files except the missing archive log files are backed up.

- CustomSnapshot

Specifies the custom naming format that you want to use for the Snapshot copy name.
- **CustomSnapShotFormat**
  Specifies the custom naming format to be used. Specify the format using keywords like $ResourceGroup, $Policy, $ScheduleType, $HostName and $CustomText.

- **CustomText**
  Specifies custom text for the Snapshot copy name.

- **SecondaryLocator**
  Specifies the secondary (SnapVault or SnapMirror) storage location details (destination volume) for each unique primary storage (source volume) of resource on which you want to perform secondary verification. Specify this option more than once to provide secondary storage location details for multiple unique primary storage. Primary (source volume) and secondary (destination volume) storage location details should be specified as name-value pairs in a comma separated list. For example: -SecondaryLocator 'Primary=oracle_vs1:db1_data_vol,Secondary=oracle_vs1_mirror:db1_data_vol_mirror' -SecondaryLocator 'Primary=oracle_vs2:db1_log_vol,Secondary=oracle_vs2_mirror:db1_data_log_mirror'.

- **EnableEmail**
  Indicates whether to enable email notification.

- **EmailTo**
  Specifies to whom the email has to be sent.

- **EmailFrom**
  Specifies from whom the email has to be sent.

- **EmailSubject**
  Specifies subject for the email.

- **EmailPreference**
  Specifies when emails should be sent.
  Possible Values: [ALWAYS, ON_ERROR, ON_ERROR_OR_WARNING, NEVER]

### Examples

The following example shows how to protect a resource.

```bash
[root@rhel-linux -]# sccli Add-SmProtectResource
-Description 'STDDB resource with scheduled policies and custom snapshot'
-Resource 'host=rhel-linux.netapp.com,type=Oracle Database,names=[STDDB]'
-Policies 'oracle_logpruning_oldlog_2hrs, backup_secondary_with_verification, offline_data_daily'
-CustomSnapshot
-CustomSnapShotFormat '$ResourceGroup$Policy$HostName$ScheduleType$CustomText'
-CustomText 'stddb_backup'
INFO: The command 'Add-SmResourceGroup' executed successfully.
```

```bash
[root@rhel-linux -]# sccli Add-SmProtectResource
-Description 'Attaching policy to Resource' -PluginCode 'SCO'
-Resource 'host=rhel-linux.netapp.com,type=Oracle Database,names=[ORACLE_DB1]'
```
INFO: The command 'Add-SmProtectResource' executed successfully.
Add-SmResourceGroup - Adds a resource group to SnapCenter.

**Description**

Creates a new resource group. You can specify policies, schedules, verification schedules, and resources to be associated with the resource group.

**Usage**

```
sccli Add-SmResourceGroup -ResourceGroupName <resource group name> [-Description <description>] [-Tags <tag1,tag2,...,tagn>] [-PluginCode <SCO | SCU>] [-Policies <policy1, policy2, ..., policyN>] -Resources host=localhost.domain,type=Oracle Database,names=[db1,db2,db3] -Schedules PolicyName=name-of-the-policy,ScheduleType=HOURLY | DAILY | WEEKLY | MONTHLY,StartTime=YYYY-MM-DD hh:mm:ss,EndTime=YYYY-MM-DD hh:mm:ss,Repeat_Every_Hour=hh::mm,DaysInterval=number-of-days,DaysOfTheWeek=[SUNDAY,MONDAY,TUESDAY,WEDNESDAY,THURSDAY,FRIDAY, SATURDAY],MonthsOfTheYear=[January,February,March,April,May,June,July,August,September,October,November,December],DaysOfWeek=[SUNDAY,MONDAY,TUESDAY,WEDNESDAY,THURSDAY,FRIDAY, SATURDAY],Repeat_Every_Hour=hh::mm,DaysInterval=number-of-days,DaysOfWeek=[SUNDAY,MONDAY,TUESDAY,WEDNESDAY,THURSDAY,FRIDAY, SATURDAY],MonthsOfTheYear=[January,February,March,April,May,June,July,August,September,October,November,December],DaysOfTheMonth=[1,2,3,...,30,31],-VerificationSchedules BackupPolicyName=name-of-the-backup-policy,BackupScheduleType=HOURLY | DAILY | WEEKLY | MONTHLY,StartTime=YYYY-MM-DD hh:mm:ss,EndTime=YYYY-MM-DD hh:mm:ss,Repeat_Every_Hour=hh::mm,DaysInterval=number-of-days,DaysOfWeek=[SUNDAY,MONDAY,TUESDAY,WEDNESDAY,THURSDAY,FRIDAY, SATURDAY],MonthsOfTheYear=[January,February,March,April,May,June,July,August,September,October,November,December],DaysOfTheMonth=[1,2,3,...,30,31],-ExcludeArchiveLogDestinationsFromBackup 'location1,location2,...,locationN' [-EnableEmail] [-EmailTo <email address>] [-EmailFrom <email address>] [-EmailSubject <subject>] [-EmailPreference ALWAYS | ON_ERROR | ON_ERROR_OR_WARNING | NEVER]
```

**Parameters**

- **ResourceGroupName**
  Specifies the new resource group name.

- **Description**
  Provides an optional description of the resource group.

- **Tags**
  Provides optional tags for the resource group.

- **PluginCode**
  Specifies the plug-in code for which the resource group is created.
  Possible Values: [SCO, SCU]
  Default: SCO

- **Policies**
  Specifies one or more policies you want to attach to the resource group. Multiple policies can be specified in a comma-separated values.

- **Resources**
  Specifies the resources you want to add to the resource group. You must provide the resource information in a key value format, and it must contain the resource name, type, and the host on which it is located. Valid type values are: Oracle Database. You can include comma-separated values for names. To specify resources from multiple hosts you can use -Resources option multiple times. For example, -Resources 'host=host1.type=Oracle Database,names=[db1,db2,db3]' -Resources 'host=host2.type=Oracle Database,names=[db3,db4]'

- **Schedules**
  Specifies the schedules you want to add to the resource group. You must provide the schedule information in a key value format, and it must contain the policy name, schedule type, required schedule arguments depending on the schedule type and the start time. Schedule type can be HOURLY | DAILY | WEEKLY | MONTHLY. It is necessary to specify the required arguments depending on the schedule type. HOURLY: Repeat Every Hour - Specifies that you want backups to be created on designated days of the week. The values are specified in a comma separated list. MONTHLY: MonthsOfTheYear - Specifies that you want backups to be created on designated months. The values are specified in a comma separated list. DaysOfTheMonth - Specifies that you want backups to be created on the designated days of the month. The values are specified in a comma separated list. If EndTime is not specified, schedules will run indefinitely.

- **VerificationSchedules**
  Specifies the verification schedules you want to add to the resource group. Verification must be enabled for the schedule types specified in the policy to verify the backup. You must provide the verification schedules information in a key value format, and it must contain the backup policy name, backup schedule type, verification type. Depending on the verification type you need to specify other required schedule arguments. If verification type is VERIFY_AFTER_BACKUP then it is not required to specify the schedule details. However, if it is VERIFY_SCHEDULED, then it is necessary specify schedule type and its related schedule arguments. These arguments are the same as you had specified for the -Schedules option. The verification schedule type cannot be lower than the backup schedule type. For example, if backup schedule type is WEEKLY then verification schedule type cannot be DAILY, it should be greater than or equal to WEEKLY.

- **ExcludeArchiveLogDestinationsFromBackup**
  Specifies the archive log destinations to be excluded from backup. Archive log files present in the specified destinations will be excluded during log backup. Multiple entries can be specified using comma separated list. For example:
ExcludeArchiveLogDestinationsFromBackup '/arch/logs/on/local/disk1, /arch/logs/on/local/disk2'.

- **BackupArchiveLogsAfterRecentMissingOne**
  Specifies that you want to backup archive log files, which are created after the most recent missing archive log files and ignore the files created prior to it. If this option is not specified, then all archive log files except the missing archive log files are backed up.

- **CustomSnapshot**
  Specifies the custom naming format that you want to use for the Snapshot copy name.

- **CustomSnapshotFormat**
  Specifies the custom naming format to be used for the Snapshot copy name. Specify the format using keywords like $ResourceGroup, $Policy, $HostName, $ScheduleType and $CustomText.

- **CustomText**
  Specifies the custom naming format.

- **SecondaryLocator**
  Specifies the secondary (SnapVault or SnapMirror) storage location details (destination volume) for each unique primary storage (source volume) of all resources in resource group on which you want to perform secondary verification. Specify this option more than once to provide secondary storage location details for multiple unique primary storage. Primary (source volume) and secondary (destination volume) storage location details should be specified as name-value pairs in a comma separated list. For example: -SecondaryLocator 'Primary=oracle_vs1:db1_data_vol,Secondary=oracle_vs1_mirror:db1_data_vol_mirror' -SecondaryLocator 'Primary=oracle_vs2:db1_log_vol,Secondary=oracle_vs2_mirror:db1_data_log_mirror'.

- **EnableEmail**
  Indicates whether to enable email notification.

- **EmailTo**
  Specifies to whom the email has to be sent.

- **EmailFrom**
  Specifies from whom the email has to be sent.

- **EmailSubject**
  Specifies subject for the email.

- **EmailPreference**
  Specifies when emails should be sent.
  Possible Values: [ALWAYS, ON_ERROR, ON_ERROR_OR_WARNING, NEVER]

**Examples**

The following example displays how to add a resource group to the SnapCenter.

```bash
[root@rhel-linux ~]# sccli Add-SmResourceGroup -ResourceGroupName resource_group_1
-Tags 'tag3,tag4'
-Description 'Creating Resource Group' -PluginCode 'SCO'
-Resources 'host=rhel-linux.netapp.com,type=Oracle Database,names=[ORACLE_DB1,ORACLE_DB2]'
-Policies 'policy_with_schedule,offline_data_daily,hourly'
-Schedules PolicyName=offline_data_daily,ScheduleType=DAILY,StartTime='2016-08-18 13:19:59',EndTime='2016-09-03 13:27:59', DaysInterval=10
-VerificationSchedules
```
See Also
Add-SmRunAs - Creates a new Run As account with specified credentials.

Description

Creates a new Run As account with specified credentials. You can use a Run As account to perform application-specific operations within SnapCenter.

Usage

sccli Add-SmRunAs -Name <Run As name> -AuthMode <WINDOWS | LINUX | ORACLE_DATABASE | ORACLE_ASM | ORACLE_RMAN_CATALOG> [-Username <username>]

Parameters

- **Name**
  Specifies the name of the Run As account.

- **AuthMode**
  Specifies the authentication mode.
  Possible Values: [WINDOWS, LINUX, ORACLE_DATABASE, ORACLE_ASM, ORACLE_RMAN_CATALOG]

- **Username**
  Specifies the user name.

Examples

The following example displays how to create a new Run As account with the specified credentials.

```
[root@rhel-linux ~]# sccli Add-SmRunAs -Name snap-server -AuthMode WINDOWS
Enter the RunAs account user name: NetApp\SnapAdmin
Enter the RunAs account password:
INFO: The command 'Add-SmRunAs' executed successfully.
```

```
[root@rhel-linux ~]# sccli Add-SmRunAs -Name rhel_root_cred -AuthMode LINUX
Enter the RunAs account user name: root
Enter the RunAs account password:
INFO: The command 'Add-SmRunAs' executed successfully.
```
[root@rhel-linux ~]# sccli Add-SmRunAs -Name cdb_credential -
AuthMode ORACLE_DATABASE
Enter the RunAs account user name: sys
Enter the RunAs account password:
INFO: The command 'Add-SmRunAs' executed successfully.

[root@rhel-linux ~]# sccli Add-SmRunAs -Name asm_cred2 -AuthMode
ORACLE ASM
Enter the RunAs account user name: asmuser
Enter the RunAs account password:
INFO: The command 'Add-SmRunAs' executed successfully.

See Also
Add-SmStorageConnection - Adds your Storage Virtual Machine (SVM) connection.

Description

Creates a new Storage Virtual Machine (SVM) connection. You must create your SVM connection in advance before performing any provisioning or data protection jobs.

Usage

```
sccli Add-SmStorageConnection -SVM <SVM name or IP> -Protocol <HTTP | HTTPS> [-Port <port>] 
[-PreferredIP <preferred IP address>] [-Timeout <timeout>] [-Username <SVM username>] [-
EnableAsupOnFailure] [-EnableSysLog]
```

Parameters

-SVM

Specifies name or IP address of the Storage Virtual Machine.

-Protocol

Specifies the communication protocol you want to use to connect to the SVM. Possible Values: [HTTP, HTTPS]

-Port

Specifies the port for the SVM connection.

-PreferredIP

Specifies the preferred IP address for the SVM management or data LIF IP address.

-Timeout

Specifies the SVM connection timeout in seconds. Default: 60 seconds

-Username

Specifies the user name for Storage Virtual Machine.

-EnableAsupOnFailure

Indicates whether to enable Auto Support in case of any failure.
-EnableSysLog

Indicates whether to enable system log feature.

Examples

The following example displays how to add a Storage Virtual Machine (SVM) connection.

[rhel-linux ~]$ sccli Add-SmStorageConnection -SVM 'my-vsim2.eng.btc.netapp.in' -Protocol HTTPS -enableSysLog -enableAsUponFailure
Enter the SVM user name: vsadmin
Enter the SVM password:
INFO: Using '443' as default port.
INFO: The command 'Add-SmStorageConnection' executed successfully.

See Also
Add-SvmPreferredDataPath - Adds the SVM preferred data path.

Description

Adds the SVM preferred data path entry to the storage preference configuration file. This is required to override the NFS data path for a given SVM for Mount/Clone operations. You can set a single preferred data path for a SVM. By default the data path used for mounting the source NFS file system shall be used for mount/clone operations from primary. In the case of secondary, SnapCenter shall auto determine the data path of secondary SVM.

Usage

sccli Add-SvmPreferredDataPath -SVM <SVM Name> -DataPath <IP address or FQDN>

Parameters

-SVM
Specifies the name of the Storage Virtual Machine for which you want to add the preferred data path.

-DataPath
Specifies the preferred data path for the SVM. The data path can be IP address or FQDN.

Examples

The following example displays how to add a SVM preferred data path.

[root@rhel-linux ~]# sccli Add-SvmPreferredDataPath -SVM 'tonic' -DataPath 10.228.9.123
INFO: Preferred data path entry for SVM 'tonic' added successfully.
INFO: The command 'Add-SvmPreferredDataPath' executed successfully.

See Also
**Cancel-SmJob** - Cancels a queued job.

**Description**

Cancels a job. The job is canceled only if the job is queued.

**Usage**

```bash
sccli Cancel-SmJob [-JobId <job Id>]
```

**Parameters**

- **-JobId**

  Specifies the id of the job to be canceled.

**Examples**

The following example displays how to initiate a cancel job that cancels a queued job.

```bash
[root@scspr0132357001 bin]# ./sccli Cancel-smJob -JobId 184
INFO: The command 'Cancel-SmJob' executed successfully.
```

**See Also**
Catalog-SmBackupWithOracleRMAN - Catalogs the Oracle Database backup in SnapCenter with Oracle Recovery Manager (RMAN).

**Description**

Catalogs the Oracle Database backup in SnapCenter with Oracle Recovery Manager (RMAN).

**Usage**

`sccli Catalog-SmBackupWithOracleRMAN [-BackupId <backupId> | -BackupName <backupName>] [-WaitForCompletion]`

**Parameters**

- **-BackupId**
  
  Specifies the id of backup that needs to be cataloged.

- **-BackupName**
  
  Specifies the name of backup that needs to be cataloged.

- **-WaitForCompletion**
  
  Indicates whether to wait till the catalog backup job is completed.

**Examples**

The following example displays how to catalog a backup.

```
[root@rhel-linux ~]# sccli Catalog-SmBackupWithOracleRMAN -BackupId 15
INFO: Job 'Cataloging Backup(s) stddb-ds_rhel-linux_11-23-2015_21.14.26.7065_0' QUEUED with jobId '258'
INFO: The command 'Catalog-SmBackupWithOracleRMAN' executed successfully.
```

```
[root@rhel-linux ~]# sccli Catalog-SmBackupWithOracleRMAN -BackupName 'stddb-ds_rhel-linux_11-23-2015_21.14.26.7065_1'
INFO: Job 'Cataloging Backup(s) stddb-ds_rhel-linux_11-23-2015_21.14.26.7065_1' QUEUED with jobId '267'
INFO: The command 'Catalog-SmBackupWithOracleRMAN' executed successfully.
```
See Also
**Close-SmConnection** - Closes connection session with the SnapCenter.

**Description**

Closes connection session with the SnapCenter.

**Usage**

`sccli Close-SmConnection`

**Parameters**

None

**Examples**

The following example displays how to close a connection session with the SnapCenter.

```
[root@rhel-linux ~]# sccli Close-SmConnection
INFO: A connection session with the SnapCenter was closed.
```

**See Also**

[Open-SmConnection](#)
Configure-SmOracleDatabase - Configures Oracle Database in SnapCenter.

Description

Configures Oracle Database in SnapCenter. This includes configuring database authentication with port and ASM authentication with port. For Oracle RAC database, preferred nodes for backup operation can be configured.

Usage

sccli Configure-SmOracleDatabase -AppObjectId <appObjectId> -DatabaseRunAsName <run as name | None> -DatabasePort <port number> -ASMRunAsName <run as name | None> -ASMPort <port number> -OracleRmanCatalogRunAsName <run as name | None> -OracleRmanCatalogTnsName <TNS name> [-OracleRACPreferredNodes <RACnode1, RACnode2, ..., RACnodeN>]

Parameters

-AppObjectId

Specifies the application object identifier of an Oracle Database that needs to be configured. You need to specify the application object identifier format as 'host\database' for Oracle standalone database or 'clustername\database' for Oracle RAC database.

-DatabaseRunAsName

Specifies the name of the Oracle Database Run As account which contains the credentials for the database. Provide 'None' if you want to use OS authentication.

-DatabasePort

Specifies the port where the Oracle Database listener is running.
Default: 1521

-ASMRunAsName

Specifies the name of the Oracle ASM Run As account which contains the credentials for the ASM instance. Provide 'None' if you want to use OS authentication.

-ASMPort

Specifies the port where the Oracle ASM listener is running.
Default: 1521

-OracleRmanCatalogRunAsName
Specifies the name of the Oracle Recovery Manager (RMAN) catalog database Run As account which contains the credentials for the catalog database. Provide 'None' if you want to use only controlfile for cataloging.

**-OracleRmanCatalogTnsName**

Specifies the TNS name of Oracle Recovery Manager (RMAN) catalog database.

**-OracleRACPreferredNodes**

Specifies one or more Oracle RAC database preferred nodes you want to configure for backup operation. Oracle RAC Nodes must be specified in a comma separated values in the order of their preference.

**Examples**

The following example displays how to configure an Oracle Database.

```
[root@rhel-linux ~]# sccli Configure-SmOracleDatabase -AppObjectId 'rhel-linux.gdl.englab.netapp.com\STDDB' -DatabaseRunAsName 'stddb_cred' -DatabasePort 1521
INFO: The command 'Configure-SmOracleDatabase' executed successfully.
```

```
[root@rhel-linux ~]# sccli Configure-SmOracleDatabase -AppObjectId 'rhel-linux.gdl.englab.netapp.com\STDDB' -DatabaseRunAsName None
INFO: The command 'Configure-SmOracleDatabase' executed successfully.
```

```
[root@rac-node1 ~]# sccli Configure-SmOracleDatabase -AppObjectId 'oracle-rac-cluster\RACDB' -OracleRACPreferredNodes 'rac-node1.netapp.com, rac-node3.netapp.com, rac-node2.netapp.com'
INFO: The command 'Configure-SmOracleDatabase' executed successfully.
```

```
[root@rac-node1 ~]# sccli Configure-SmOracleDatabase -AppObjectId 'smo234-ipv6.gdl.englab.netapp.com\newdb' -OracleRmanCatalogRunAsName 'rman' -OracleRmanCatalogTnsName 'catcdbc'
INFO: The command 'Configure-SmOracleDatabase' executed successfully.
```
See Also
Copy-SmPolicy - Copy policy on SnapCenter.

Description

Copy an existing policy on SnapCenter. You can specify the existing policy and the new policy name.

Usage

sccli Copy-SmPolicy -PolicyName <policy> -NewPolicyName <policy>

Parameters

- **PolicyName**
  Specifies the policy you want to copy. You can provide an individual policy name.

- **NewPolicyName**
  Specifies the name of the new policy.

Examples

The following example displays the copy of the policy on SnapCenter.

```
[root@rhel-linux ~]# sccli Copy-SmPolicy -PolicyName 'existing_policy'
  -NewPolicyName 'New_policy_name'
INFO: The command 'Copy-SmPolicy' executed successfully.
```

See Also
Get-PreferredHostlPslnStorageExportPolicy - Gets the preferred IP addresses of the host for storage export policy

Description

 Gets the preferred IP addresses of the host for storage export policy

Usage

`sccli Get-PreferredHostlPslnStorageExportPolicy`

Parameters

None

Examples

The following example displays how to get preferred IP addresses of the host for storage export policy.

```
[root@rhel-linux ~]# sccli Get-PreferredHostlPslnStorageExportPolicy
==========================================================================
| Preferred host IP addresses for storage export policy                  |
==========================================================================
|  192.168.1.1                                                        |
|  192.168.1.2                                                        |
|  192.168.1.3                                                        |
|  192.168.1.4                                                        |
==========================================================================
INFO: The command 'Get-PreferredHostIPsInStorageExportPolicy' executed successfully.
```

See Also
Get-SmBackup - Gets information about one or more backups.

Description

Gets information about one or more backups.

Usage

    sccli Get-SmBackup [-AppObjectId <appObject Id>] [-AppObjectName <appObject name>] [-BackupId <backup Id>] [-BackupName <backup Name>] [-BackupType <backup Type>] [-JobId <job Id>] [-ListMountInfo] [-PluginCode <plug-in code>] [-Secondary]

Parameters

- **-AppobjectId**
  Specifies the application object identifier about which you want to get information. Specify the application object identifier format as 'host\database' for Oracle standalone database or 'clustername\database' for Oracle RAC database.

- **-AppObjectName**
  Specifies the name of the application object. For SnapCenter Plug-in for Oracle Database application object name is database name.

- **-BackupId**
  Specifies the ID of the backup about which you want to get information.

- **-BackupName**
  Specifies the name of the backup about which you want to retrieve information.

- **-BackupType**
  Specifies a filter based on the type of backup. For SnapCenter Plug-in for Oracle Database backup can be of type 'Oracle Database Data Backup' or 'Oracle Database Log Backup'.

- **-JobId**
  Specifies a filter based on the job ID.

- **-ListMountInfo**
  Indicates that you want mount information of the backup.

- **-PluginCode**
  Specifies the filter based on the plug-in code. For SnapCenter Plug-in for Oracle Database plug-in code is SCO.
  Possible Values: [SCO, SCU]
  Default: SCO.

- **-Secondary**
  Indicates whether to retrieve secondary backups.

Examples

The following example displays how to get information about all backups.

```bash
[root@rhel-linux ~]# sccli Get-SmBackup
```

<table>
<thead>
<tr>
<th>Backup Id</th>
<th>Backup Name</th>
<th>Start Time</th>
<th>End Time</th>
<th>Backup Type</th>
<th>Verification Status</th>
<th>Oracle RMAN Cataloging Status</th>
</tr>
</thead>
</table>

INFO: The command 'Get-SmBackup' executed successfully.
The following example displays how to get mount related information of a backup.

```
[root@rhel-linux ~]# sccli Get-SmBackup -BackupName 'stddb-ds_rhel-linux_11-24-2015' -ListMountInfo
```

```
<table>
<thead>
<tr>
<th>Backup Name</th>
<th>Mount Status</th>
<th>Mount Path</th>
<th>Mount Host</th>
<th>Oracle RMAN Cataloging Status</th>
</tr>
</thead>
</table>
```

INFO: The command 'Get-SmBackup' executed successfully.

**See Also**
Get-SmBackupDetails - Gets detailed information about the specified backup.

Description

Gets detailed information about the specified backup.

Usage

sccli Get-SmBackupDetails -AppObjectId <appObject Id> -BackupId <backup Id> [-Secondary] [-PluginCode <plug-in code>]

Parameters

- **AppObjectId**
  Specifies the application object identifier about which you want to get information. Specify the application object identifier format as 'host\database' for Oracle standalone database or 'clustername\database' for Oracle RAC database.

- **BackupId**
  Specifies the ID of the backup about which you want to get detailed information.

- **Secondary**
  Indicates whether the specified backup is a secondary backup.

- **PluginCode**
  Specifies the plug-in code for fetching backup details.
  Possible Values: [SCO, SCU]
  Default: SCO.

Examples

The following example displays how to get the detailed information about the specified backup.

```
[root@rhel-linux ~]# sccli Get-SmBackupDetails -AppObjectId 'rhel-linux.netapp.com\CDB' -BackupId 89
ORACLE DATABASE BACKUP DETAILS
Backup name: CDB_rhel-linux_01-14-2016_20.07.57.9759_0
Backup type: Oracle Database Data Backup
Database name/SID: CDB
Database unique name: DB12C
```
Database type: Oracle Single Instance (Multitenant)
Database id: 1343801015
Database home: /u01/app/oracle/product/12.1.0.2/db_1
Database version: 12.1.0.2.0
Archive log mode: true
Check point SCN: 8501827
End backup SCN: 8502061

TABLESPACES

1. TEMP
2. SYSAUX
3. SYSTEM
4. UNDOTBS1
5. USERS

PLUGGABLE DATABASES

1. PDB Name: HRDB
   PDB tablespaces:
   1. SYSAUX
   2. SYSTEM
   3. USERS
   4. TEMP

2. PDB Name: SALESDB
   PDB tablespaces:
   1. SYSAUX
   2. SYSTEM
   3. USERS
   4. CLIENTS
   5. REPORT
   6. CREDIT
   7. TEMP

3. PDB Name: FINANCE
   PDB tablespaces:
   1. SYSAUX
   2. SYSTEM
   3. USERS
   4. TEMP

4. PDB Name: PDB$SEED
   PDB tablespaces:
   1. SYSAUX
   2. SYSTEM
   3. TEMP

INFO: The command 'Get-SmBackupDetails' executed successfully.

See Also
Get-SmBackupReport - Gets reports about the backup operations based on the options you specify.

Description

Gets reports about the backup operations based on the options you specify. You can specify whether you want to get the details about a specific backup or a summary of all backups performed using a SnapCenter instance.

Usage


Parameters

-**PluginCode**
  Specifies the filter based on the plug-in code. For SnapCenter Plug-in for Oracle Database plug-in code is SCO.
  Possible Values: [SCO, SCU]
  Default: SCO.

-**BackupId**
  Specifies the backupId for which backup report need to be fetched.

-**BackupName**
  Specifies that you want to get a detailed backup report for the given backup.

-**ResourceGroup**
  Specifies the resource group for which you want backup reports.

-**FromDateTime**
  Specifies that you want to get backup operations reports for backups run from a specified day and time. You must specify the date and time in the 'yyyy-MM-dd HH:mm:ss' format. For example: '2015-01-26 20:30:00'.

-**ToDateTime**
  Specifies that you want to get backup operations reports for backups run till a specified day and time. You must specify the date and time in the 'yyyy-MM-dd HH:mm:ss' format. For example: '2015-01-26 20:30:00'.

-**JobId**
  Specifies the jobId for which backup report need to be fetched.

-**Policy**
  Specifies that you want reports about backup jobs associated with a specified policy.

-**Resource**
  Specifies the resource for which you want backup reports.

-**Status**
  Specifies that you want information about backup jobs with a specified status. Valid values are: completed, failed, and warning.

Examples
The following example displays how to get reports about the backup operations based on the options specified.

```
[root@rhel-linux ~]# sccli Get-SmBackupReport -Resource STTDB

<table>
<thead>
<tr>
<th>Backup Id</th>
<th>Job Id</th>
<th>Backup Name</th>
<th>Duration (HH:mm:ss)</th>
<th>Resource Group Name</th>
<th>Policy Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>64</td>
<td>stddb_ds_rhel-linux_11-30-2015_22.26.29.4957_0</td>
<td>00:00:56</td>
<td>stddb_ds</td>
<td>Online_Data</td>
<td>Completed</td>
</tr>
</tbody>
</table>
```

INFO: The command 'Get-SmBackupReport' executed successfully.

See Also
**Get-SmClone - Gets information about existing clones.**

**Description**

Gets information about existing clones. You can also search existing clones based on clone name, clone ID, application object, and backup ID.

**Usage**

```
sccli Get-SmClone [-AppObjectName <appObject name>] [-BackupId <backup Id>] [-BackupName <backup Name>] [-CloneId <clone Id>] [-CloneName <clone Name>] [-PluginCode <SCO | SCU>]
```

**Parameters**

- **-AppObjectName**
  Retrieves information based on database name.

- **-BackupId**
  Retrieves information based on a specified backup ID. Get the backup ID by running Get-SmBackup without parameters.

- **-BackupName**
  Retrieves information based on backup name.

- **-CloneId**
  Provides a clone ID for the clone about which you want information. You can get the clone ID by running Get-SmClone without any input, and then use the clone ID to retrieve more detailed information about the specified clone.

- **-CloneName**
  Specifies that you want information about a single clone.

- **-PluginCode**
  Retrieves information based on the plug-in code.
  Possible Values: [SCO, SCU]
  Default: SCO

**Examples**

The following example displays how to get information about existing clones.
<table>
<thead>
<tr>
<th>Clone Id</th>
<th>Clone Name</th>
<th>Source Db</th>
<th>Clone Db</th>
<th>Clone Host</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>stddb_ds__clone__11-30-2015_01.43.10</td>
<td>STDDB</td>
<td>SECONDDB</td>
<td>rhel-linux.netapp.com</td>
</tr>
<tr>
<td>5</td>
<td>federated-ds__clone__11-30-2015_06.11.56</td>
<td>CDB</td>
<td>CLONE12C</td>
<td>rhel-linux.netapp.com</td>
</tr>
<tr>
<td>6</td>
<td>stddb_ds__clone__11-30-2015_17.12.41</td>
<td>STDDB</td>
<td>THIRDDB</td>
<td>rhel-linux.netapp.com</td>
</tr>
<tr>
<td>7</td>
<td>stddb_ds__clone__11-30-2015_22.34.55</td>
<td>STDDB</td>
<td>FOURTHDB</td>
<td>rhel-linux.netapp.com</td>
</tr>
</tbody>
</table>

INFO: The command 'Get-SmClone' executed successfully.
Get-SmConfigSettings - Displays the configuration settings.

Description
Displays the configuration settings for Plugin and Server.

Usage
sccli Get-SmConfigSettings [-PluginCode <SCO | SCU>] [-HostName <hostname>] -Key <keyName | all> -ConfigSettingsType <Plugin | Server> [-ShowDescription]

Parameters
-PluginCode
Specifies the plugin code for which the configuration settings have to be retrieved.

-HostName
Specifies the host for which the configuration settings have to be retrieved.

-Key
Specifies the key for which the configuration value has to be retrieved. If all keys have to be retrieved, specify "all".

-ConfigSettingsType
Specifies the type of configuration settings which needs to be retrieved. If config settings type is of plugin, then plugin code must be specified.

-ShowDescription
Indicates that you want the description for requested keys to be displayed.

Examples
The following example displays how to get configuration settings for SCO plugin.

[root@scspr0128265002 bin]# sccli get-smconfigsettings -configsettingstype plugin -plugincode sco -key all
INFO: Using localhost
'scspr0128265002.gdl.englab.netapp.com' as default host for retrieving configuration settings.
The following example displays how to get configuration settings for SCU plugin.

```
[root@scspr0128265002 bin]# sccli get-smconfigsettings -configsettingstype plugin -plugincode scu -key all
INFO: Using localhost
'scspr0128265002.gdl.englab.netapp.com' as default host for retrieving configuration settings.
```

INFO: The command 'Get-SmConfigSettings' executed successfully.

See Also
Get-SmHost - Gets information about one or more hosts.

Description
Gets information about one or more hosts. The information includes host status and plug-ins on hosts.

Usage
```
sccli Get-SmHost [-HostNames <host1, host2, ..., hostN>] [-ListPluginInfo]
```

Parameters

- **-HostNames**
  Specifies the names of the hosts about which you want information. You can provide the name of one host, or a comma-separated list of host names.

- **-ListPluginInfo**
  Indicates that you want to retrieve information about the plug-ins installed on the hosts.

Examples
The following example displays how to get information about one or more hosts.

```
[root@rhel-linux ~]# sccli Get-SmHost
=========================================================
| Host                   |  Status |  OS      |  Port  |
=========================================================
| rhel-linux.netapp.com  |  Up     |  LINUX   |  8145  |
| suse-linux.netapp.com  |  Up     |  LINUX   |  8145  |
| oel-linux.netapp.com   |  Up     |  LINUX   |  8145  |
```

INFO: The command 'Get-SmHost' executed successfully.

```
[root@rhel-linux ~]# sccli Get-SmHost -HostNames 'rhel-linux.netapp.com' -ListPluginInfo
```

```
<table>
<thead>
<tr>
<th>Host</th>
<th>Plugins Name</th>
<th>Plugins Code</th>
<th>Plugins Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>rhel-linux.netapp.com</td>
<td>SnapCenter Plug-in for Oracle Database, SnapCenter Plug-in for UNIX, SnapCenter Plug-ins Package for Linux</td>
<td>SCO, SCU, HPPL</td>
<td>1.1.0, 1.1.0, 1.1.0</td>
</tr>
</tbody>
</table>
```

INFO: The command 'Get-SmHost' executed successfully.

See Also
Get-SmJobSummaryReport - Initiates a job summary report.

Description

Initiates a job summary report. A job summary report provides information on every job initiated by SnapCenter on a specified day, along with a breakdown of the job status. The job summary report provides similar data to the information displayed in the Monitor page of the SnapCenter GUI, however here the job information is limited to one day.

Usage

sccli Get-SmJobSummaryReport [-Date 'yyyy-MM-dd HH:mm:ss'] [-JobId <job Id>]

Parameters

- **Date**
  Specifies the day for which you want to initiate the job summary report. You must specify the date and time in the 'yyyy-MM-dd HH:mm:ss' format. For example: '2015-01-26 20:30:00'. If not specified, the value defaults to current date.

- **JobId**
  Specifies the job id whose report need to be retrieved.

Examples

The following example displays how to initiate a job summary report that provides information on every job initiated by SnapCenter

```
[root@rhel-linux ~]# sccli Get-SmJobSummaryReport
====================================================================================
<table>
<thead>
<tr>
<th>Job Id</th>
<th>Job Name</th>
<th>Job Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>76</td>
<td>Restore 'rhel-linux.netapp.com\CDB'</td>
<td>Failed</td>
</tr>
<tr>
<td>77</td>
<td>Create StorageConnection 'my-vsim2.eng.btc.netapp.in'</td>
<td>Completed</td>
</tr>
<tr>
<td>78</td>
<td>Create Host 'suse-linux.netapp.com'</td>
<td>Completed</td>
</tr>
<tr>
<td>79</td>
<td>Restore 'rhel-linux.netapp.com\STDDB'</td>
<td>Warning</td>
</tr>
<tr>
<td>80</td>
<td>Restore 'rhel-linux.netapp.com\STDDB'</td>
<td>Completed</td>
</tr>
</tbody>
</table>
====================================================================================
INFO: The command 'Get-SmJobSummaryReport' executed successfully.
```

See Also
Get-SmLogs - Fetches logs from SnapCenter.

Description

Fetches SnapCenter log files. Log files are returned in a .zip file format. You can fetch all SnapCenter logs, or logs for an individual plug-in or SnapCenter server. You can also get logs for a specified job.

Usage

sccli Get-SmLogs [-Path <log path>] [-ServerLogs | -AllLogs | -JobId <job id> | -PluginCode <SCO | SCU> -HostName <hostname> ]

Parameters

- Path
  Specifies the absolute path including filename and extension to which you want the log .zip file to be written.

- ServerLogs
  Indicates that you want to fetch logs for the SnapCenter server only.

- AllLogs
  Indicates that you want to fetch all SnapCenter logs, which include SnapCenter server, managed host, and plug-in logs.

- JobId
  Specifies the job ID for which you want to fetch logs.

- PluginCode
  Specifies that you want to fetch logs pertaining to a specified plug-in instance. For example, if you want to fetch the SnapCenter Plug-in for Oracle Database logs, the plug-in code is SCO
  Possible Values: [SCO, SCU]

- HostName
  Specifies the host for the plug-in instance for which you want to fetch logs.

Examples

The following example displays how to fetch logs from SnapCenter.
INFO: You have chosen to fetch server logs from SnapCenter.
INFO: The requested logs got fetched successfully at location
'/tmp/snapcenter_server_logs_2016-01-08_02.05.32.244.zip'.
INFO: The command 'Get-SmLogs' executed successfully.

INFO: You have chosen to fetch all logs from SnapCenter.
INFO: The requested logs got fetched successfully at location
'/tmp/snapcenter_all_logs_2016-01-08 02.09.31.731.zip'.
INFO: The command 'Get-SmLogs' executed successfully.

INFO: You have chosen to fetch logs for job id '50' from SnapCenter.
INFO: The requested logs got fetched successfully at location
'/tmp/snapcenter_job_50_logs_2016-01-08 02.07.25.069.zip'.
INFO: The command 'Get-SmLogs' executed successfully.

INFO: Using localhost 'rhel-linux.netapp.com' as default host for getting 'SCO' plug-in logs from SnapCenter.
INFO: The requested logs got fetched successfully at location
'/tmp/snapcenter_SCO_plugin_scomaddev_logs_2016-01-08 02.07.48.121.zip'.
INFO: The command 'Get-SmLogs' executed successfully.

See Also
Get-SmOracleDatabaseConfiguration - Retrieves Oracle Database configuration details.

Description

Retrieves Oracle Database configuration details. The configuration details includes database authentication with port and ASM authentication with port. For Oracle RAC database, it also includes preferred nodes configured for backup operation.

Usage

sccli Get-SmOracleDatabaseConfiguration -AppObjectId <appObject Id>

Parameters

-AppObjectId

Specifies the application object identifier whose configuration details needs to be retrieved. Specify the application object identifier format as 'host\database' for Oracle standalone database or 'clustername\database' for Oracle RAC database.

Examples

The following example displays how to retrieve oracle database configuration.

```
[root@rhel-linux ~]# sccli Get-SmOracleDatabaseConfiguration -AppObjectId 'rhel-linux.netapp.com\STDDB'

Credentials for Oracle Database : STDDB
Database RunAs: stddb_cred
Database Port: 1521
ASM Instance RunAs: NONE
ASM Port: 1521
RMAN catalog RunAs: cred catdb
RMAN catalog TNS name: CATDB
INFO: The command 'Get-SmOracleDatabaseConfiguration' executed successfully.
```

```
[root@rac-node1 ~]# sccli Get-SmOracleDatabaseConfiguration -AppObjectId 'oracle-rac-cluster\RACDB'

Credentials for Oracle Database : RACDB
Database RunAs: NONE
Database Port: 1521
ASM Instance RunAs: NONE
ASM Port: 1521
```
Oracle RAC nodes preference for Backup operation

<table>
<thead>
<tr>
<th>RAC Nodes</th>
<th>Preferred RAC Nodes</th>
</tr>
</thead>
<tbody>
<tr>
<td>rac-node4.netapp.com</td>
<td>rac-node1.netapp.com</td>
</tr>
<tr>
<td></td>
<td>rac-node3.netapp.com</td>
</tr>
<tr>
<td></td>
<td>rac-node2.netapp.com</td>
</tr>
</tbody>
</table>

INFO: The command 'Get-SmOracleDatabaseConfiguration' executed successfully.

See Also
**Get-SmPolicy** - Retrieves details about one or more policy.

**Description**

Retrieves details about one or more policies.

**Usage**

```
sccli Get-SmPolicy [-ResourceGroupName <resource group name>] [-PolicyName <policy name>] [-PluginCode <SCO | SCU>]
```

**Parameters**

- **-ResourceGroupName**
  
  Specifies a resource group. This parameter retrieves details of each policy associated with the resource group.

- **-PolicyName**
  
  Specifies the name of the policy for which you want details.

- **-PluginCode**
  
  Specifies the SnapCenter Plug-in for which you want to retrieve policies. For example, if you want to get policies information about SnapCenter Plug-in for Oracle Database, your plug-in code is SCO.
  
  Possible Values: [SCO, SCU]
  
  Default: SCO

**Examples**

The following example displays how to retrieve details about one ore more policies.

```
[root@rhel-linux ~]# sccli Get-SmPolicy

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Schedule Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>oracle_logpruning_oldlog_2hrs</td>
<td>BACKUP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>verify_policy_secondary</td>
<td>VERIFICATION</td>
<td></td>
<td>Verification policy for verifying 4 backups on secondary</td>
</tr>
<tr>
<td>backup_secondary_with_verification</td>
<td>BACKUP</td>
<td>DAILY</td>
<td>Online Data policy for an Oracle Database with schedule and retention</td>
</tr>
<tr>
<td>offline_data_daily</td>
<td>BACKUP</td>
<td>DAILY</td>
<td>Offline Data policy for an Oracle Database with schedule and retention</td>
</tr>
</tbody>
</table>

INFO: The command 'Get-SmPolicy' executed successfully.
```

```
[root@rhel-linux ~]# sccli Get-SmPolicy -PolicyName 'offline_data_daily'

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Schedule Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>offline_data_daily</td>
<td>BACKUP</td>
<td>DAILY</td>
<td>Offline Data policy for an Oracle Database with schedule and retention</td>
</tr>
</tbody>
</table>

INFO: The command 'Get-SmPolicy' executed successfully.
```

**See Also**
Get-SmResourceGroup - Gets information about one or more resource groups.

Description

Gets information about one or more resource groups. You can also retrieve information about host resource map for the resource group and the policies attached to the resource group.

Usage


Parameters

- **-ResourceGroupName**
  Specifies the name of the resource group for which you want information.

- **-ListPolicies**
  Lists the policies that are associated with the resource group.

- **-ListResources**
  Lists the resources that are part of the resource group.

Examples

The following example displays how to get information about one or more resource groups.

```
[root@rhel-linux ~]# sccli Get-SmResourceGroup
=======================================================================================================================
|  Name          |  Type    |  Last Backup Status  |  Description                                                     |
========================================================================================================================
|  stddb_ds      |  BACKUP  |  Completed           |  STDDB resource group with scheduled policies and custom snapshot |
|  federated_ds  |  BACKUP  |  Completed           |  federated resource group with exclude log destinations           |
========================================================================================================================
INFO: The command 'Get-SmResourceGroup' executed successfully.

[root@rhel-linux ~]# sccli Get-SmResourceGroup -ResourceGroupName stddb_ds
=============================================================================================================================================================  
|  Name      |  Policies                                                                                |  Resources [name,type,host]                                   |
|  stddb_ds  |  oracle_logpruning_oldlog_2hrs, backup_secondary_with_verification, offline_data_daily  |  [STDDB, Oracle Database, rhel-linux.netapp.com]             |
=============================================================================================================================================================  
INFO: The command 'Get-SmResourceGroup' executed successfully.
```

See Also
Get-SmResources - Discovers plug-in resources.

Description

Discovers plug-in resources. For SnapCenter Plug-in for Oracle Database, resources include Oracle standalone and RAC databases. You can query one host at a time and return information about plug-in resources on that host. You can use this cli command to get the detailed information about resources location on the specified host.

Usage

sccli Get-SmResources -HostName <host name> [-PluginCode <SCO | SCU>] [-UseKnownResources]

Parameters

-HostName

Specifies the host name. You can query one host at a time.

-PluginCode

Specifies the SnapCenter Plug-in for which you want to discover resources. For example, if you want to get information about SnapCenter Plug-in for Oracle Database, your plug-in code is SCO.
Possible Values: [SCO, SCU]
Default: SCO

-UseKnownResources

Indicates that you want to return the cached resources. You can use this parameter when you have already queried resources from the SnapCenter GUI. In this case, you receive information only about the already discovered resources. You can use this parameter for resource verification.

Examples

The following example displays how to discover plug-in resources

```
[root@rhel-linux ~]# sccli Get-SmResources
INFO: Using localhost 'rhel-linux.netapp.com' as default host for discovering resources.

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
<th>Id</th>
<th>Type</th>
<th>Overall Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDB</td>
<td>12.1.0.2.0</td>
<td>rhel-linux.netapp.com\CDB</td>
<td>Oracle Single Instance (Multitenant)</td>
<td>Backup succeeded</td>
</tr>
<tr>
<td>STDDB</td>
<td>11.2.0.4.0</td>
<td>rhel-linux.netapp.com\STDDB</td>
<td>Oracle Single Instance</td>
<td>Not protected</td>
</tr>
<tr>
<td>SECONDDB</td>
<td>11.2.0.4.0</td>
<td>rhel-linux.netapp.com\SECONDDB</td>
<td>Oracle Single Instance</td>
<td>Not protected</td>
</tr>
</tbody>
</table>

INFO: The command 'Get-SmResources' executed successfully.
```
See Also
Get-SmRunAs - Gets information about all the Run As accounts created in SnapCenter.

Description

Gets all the Run As accounts created in SnapCenter. If you specify a Run As name, you receive information about the specified Run As account. Without a specified name, you receive information about all existing accounts.

Usage

sccli Get-SmRunAs [-Name <Run As name>] -AuthMode <WINDOWS | LINUX | ORACLE_DATABASE | ORACLE_ASM>

Parameters

- **-Name**
  Specifies and individual Run As account for which you want to get information. If you omit this parameter, you retrieve information about all Run As accounts associated with SnapCenter.

- **-AuthMode**
  Specifies the filter based on authentication mode.
  Possible Values: [WINDOWS, LINUX, ORACLE_DATABASE, ORACLE_ASM]

Examples

The following example displays how to get the Run As accounts.

[root@rhel-linux ~]# sccli Get-SmRunAs

<table>
<thead>
<tr>
<th>Id</th>
<th>RunAs Name</th>
<th>Auth Mode</th>
<th>User Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>dev-linux</td>
<td>LINUX</td>
<td>root</td>
</tr>
<tr>
<td>2</td>
<td>cdbrac</td>
<td>ORACLE_DATABASE</td>
<td>sys</td>
</tr>
<tr>
<td>3</td>
<td>myasm</td>
<td>ORACLE_ASM</td>
<td>scott</td>
</tr>
<tr>
<td>4</td>
<td>snap-server</td>
<td>WINDOWS</td>
<td>NetApp\SnapAdmin</td>
</tr>
</tbody>
</table>

INFO: The command 'Get-SmRunAs' executed successfully.

The following example displays get the specific Run As account by name.
[root@rhel-linux ~]# sccli Get-SmRunAs -Name 'snap-server'

================================================================================
<table>
<thead>
<tr>
<th>Id</th>
<th>RunAs Name</th>
<th>Auth Mode</th>
<th>User Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>snap-server</td>
<td>WINDOWS</td>
<td>NetApp\SnapAdmin</td>
</tr>
</tbody>
</table>

INFO: The command 'Get-SmRunAs' executed successfully.

See Also
Get-SmSecondaryDetails - Gets information about secondary storage location details.

Description

Gets information about secondary (SnapVault or SnapMirror) storage location details.

Usage

sccli Get-SmSecondaryDetails -AppObjectId <appObject Id> [-BackupId <backup Id>] [-PluginCode <SCO | SCU>]

Parameters

-AppObjectId

Specifies the application object identifier about which you want to get information. Specify the application object identifier format as 'host\database' for Oracle standalone database or 'clustername\database' for Oracle RAC database.

-BackupId

Specifies the ID of the backup for which you want to get information.

-PluginCode

Specifies the type of plug-in. You need to specify a plug-in type because fetching the secondary storage location details is specific to one type of plug-in. For example, if you want to fetch the secondary storage location details of a resource or its backup contained in a SnapCenter Plug-in for Oracle Database, the plug-in type is SCO.

Possible Values: [SCO, SCU]

Default: SCO

Examples

The following example displays how to get information about the secondary details

[root@rhel-linux ~]# sccli Get-SmSecondaryDetails -AppObjectId 'rhel-linux.netapp.com\STDDDB'
=====================================================================================================  
|  Primary (SVM:Volume)                       |  Secondary (SVM:Volume)                             |
=====================================================================================================  
|  my-vsim1.eng.btc.netapp.in:stddb_data_vol  |  my-vsim3.eng.btc.netapp.in:stddb_data_vol_mirror3 |
|  my-vsim1.eng.btc.netapp.in:stddb_data_vol  |  my-vsim4.eng.btc.netapp.in:stddb_data_vol_mirror4 |
=====================================================================================================  
INFO: The command 'Get-SmSecondaryDetails' executed successfully.

See Also
Get-SmStorageConnection - Retrives all Storage Virtual Machine (SVM) connections information.

Description

Retrieves information about available SVM connections. You can get information about a specified SVM, or information on all SVM's.

Usage

sccli Get-SmStorageConnection [-SVM <SVM name or IP>]

Parameters

-SVM

Specifies the name or IP address of the Storage Virtual Machine whose information needs to be retrieved.

Examples

The following example displays how to retrieve the information about the available SVM connections.

```
[root@rhel-linux ~]# sccli Get-SmStorageConnection

<table>
<thead>
<tr>
<th>Name</th>
<th>Protocol</th>
<th>Port</th>
<th>UserName</th>
<th>Timeout</th>
<th>Preferred IP Address</th>
<th>EnableAsupOnFailure</th>
<th>EnableSysLog</th>
</tr>
</thead>
<tbody>
<tr>
<td>my-vsim1.eng.btc.netapp.in</td>
<td>HTTP</td>
<td>80</td>
<td>vsadmin</td>
<td>60</td>
<td></td>
<td>false</td>
<td>false</td>
</tr>
<tr>
<td>my-vsim2.eng.btc.netapp.in</td>
<td>HTTPS</td>
<td>443</td>
<td>vsadmin</td>
<td>60</td>
<td></td>
<td>true</td>
<td>true</td>
</tr>
<tr>
<td>my-vsim3.eng.btc.netapp.in</td>
<td>HTTPS</td>
<td>443</td>
<td>vsadmin</td>
<td>60</td>
<td>10.123.231.123</td>
<td>false</td>
<td>true</td>
</tr>
<tr>
<td>my-vsim4.eng.btc.netapp.in</td>
<td>HTTP</td>
<td>80</td>
<td>vsadmin</td>
<td>60</td>
<td></td>
<td>false</td>
<td>false</td>
</tr>
</tbody>
</table>
```

INFO: The command 'Get-SmStorageConnection' executed successfully.

```
[root@rhel-linux ~]# sccli Get-SmStorageConnection
-SVM 'my-vsim2.eng.btc.netapp.in'

<table>
<thead>
<tr>
<th>Name</th>
<th>Protocol</th>
<th>Port</th>
<th>UserName</th>
<th>Timeout</th>
<th>Preferred IP Address</th>
<th>EnableAsupOnFailure</th>
<th>EnableSysLog</th>
</tr>
</thead>
<tbody>
<tr>
<td>my-vsim2.eng.btc.netapp.in</td>
<td>HTTPS</td>
<td>443</td>
<td>vsadmin</td>
<td>60</td>
<td></td>
<td>true</td>
<td>true</td>
</tr>
</tbody>
</table>
```

INFO: The command 'Get-SmStorageConnection' executed successfully.

See Also
Get-SvmPreferredDataPath - Gets the SVM preferred data path.

**Description**

Gets the SVM preferred data path.

**Usage**

sccli Get-SvmPreferredDataPath -SVM <SVM Name>

**Parameters**

- **-SVM**

  Specifies the name of the Storage Virtual Machine for which you want to retrieve the preferred data path.

**Examples**

The following example displays how to get the SVM preferred data path.

```
[root@rhel-linux ~]# sccli Get-SvmPreferredDataPath
==========================================================
|  SVM    |  Preferred Data Path  |
==========================================================
|  tonic  |  10.228.9.121         |
==========================================================
INFO: The command 'Get-SvmPreferredDataPath' executed successfully.
```

**See Also**
New-SmBackup - Initiates a new Snapshot copy job.

**Description**

 Initiates a new Snapshot copy job. To initiate backup you need to specify either a resource group name or a protected resource.

**Usage**

```
sccli New-SmBackup -ResourceGroupName <ResourceGroup Name> -Resource host=localhost.domain,type=Oracle Database,names=[db1] -Policy <Policy Name > [-EnableVerification] [-VerifyOnSecondary] [-WaitForCompletion]
```

**Parameters**

- **ResourceGroupName**
  
  Names the resource group name you want to back up.

- **Resource**
  
  Specifies the resource you want to take backup. You must provide the resource information in a key value format, and it must contain the resource name, type, and the host on which it is located. Valid type values are: Oracle Database. For example, -Resource 'host=host1,type=Oracle Database,names=[db1]'

- **Policy**
  
  Specifies the policy you want to use for the backup operation.

- **EnableVerification**
  
  Indicates that you want to verify the backup.

- **VerifyOnSecondary**
  
  Indicates that you want to verify the backup on secondary storage.

- **WaitForCompletion**
  
  Indicates to wait till the backup job is completed.

**Examples**

1. The following example displays how a new backup operation is initiated by specifying the resource group name.
2. The following example displays how a new backup operation is initiated by specifying resource details.

```bash
[root@rhel-linux ~]# sccli New-SmBackup -policy p9 -VerifyOnSecondary -resource 'host=galaxy-vm133.gdl.englab.netapp.com,
type=Oracle Database,names=[sandb6]' INFO: Job 'Backup of resource group 'galaxy-vm133.gdl.englab.netapp.com_sandb6' with policy 'p9' QUEUED with jobId '160'
INFO: The command 'New-SmBackup' executed successfully.
```

See Also
New-SmClone - Initiates a new clone job.

Description

Initiates a new clone operation. You can initiate a clone job from an existing backup.

Usage

```
```

Parameters

- **-CloneToHost**
  Specifies the hostname where you want to perform clone operation.

- **-OracleCloneSpecificationFile**
  Specifies the Oracle Database clone specification file path.

- **-OracleSkipRecovery**
  Indicates that you want to skip the recovery of the cloned Oracle Database.

- **-OracleUntilCancel**
  Indicates that you want to recover of the cloned Oracle Database until Cancel.

- **-OracleUntilScn**
  Specifies the SCN of logs till which you want to recover the cloned Oracle Database.

- **-OracleUntilTime**
  Specifies the date and time till which you want to recover the cloned Oracle Database. You must specify the date and time in the 'yyyy-MM-dd HH:mm:ss' format. For example: '2015-01-26 20:30:00'.

- **-AlternateArchiveLogPaths**
Specifies the alternate paths for archive logs to be used for recovery. Multiple alternate archive log paths can be specified in a comma separated list.

- **PreScriptPath**

Specifies the prescript path. For SnapCenter Plug-in for Oracle Database, any executable script should be located at '/var/opt/snapcenter/spl/scripts' or any directory underneath scripts folder and the complete absolute path must be specified.

- **PreScriptArguments**

Specifies the prescript arguments. Multiple arguments can be specified in a space separated list. For example: 'arg1 arg2 arg3'.

- **PostScriptPath**

Specifies the postscript path. For SnapCenter Plug-in for Oracle Database, any executable script should be located at '/var/opt/snapcenter/spl/scripts' or any directory underneath scripts folder and the complete absolute path must be specified.

- **PostScriptArguments**

Specifies the postscript arguments. Multiple arguments can be specified in a space separated list. For example: 'arg1 arg2 arg3'.

- **ScriptTimeout**

Specifies the script timeout in seconds. If not specified, the value defaults to 60 seconds. Default: 60

- **AppPluginCode**

Specifies the type of plug-in. You need to specify a plug-in type because clone operation is specific to one type of plug-in. For example, if you want to create a clone of resource contained in a SnapCenter Plug-in for Oracle, the plug-in code is SCO.
Possible Values: [SCO, SCU]
Default: SCO

- **EnableEmail**

Indicates whether to enable email notification.

- **EmailTo**

Specifies to whom email need to be sent.

- **EmailFrom**

Specifies from whom email has to be sent.

- **EmailSubject**
Specifies subject for the email.

- **EmailPreference**

  Specifies when emails should be sent.
  Possible Values: [ALWAYS, ON_ERROR, ON_ERROR_OR_WARNING, NEVER]

- **WaitForCompletion**

  Indicates whether to wait till the clone job is completed.

**Examples**

The following example displays how a new clone operation is initiated

```
[root@rhel-linux ~]# sccli New-SmClone -CloneToHost 'rhel-linux.netapp.com'
-OracleCloneSpecificationFile
  '/var/opt/snapcenter/sco/clone_specs/oracle_clonespec_CDB_CLONE12C_2015-11-26_00.20.29.237.xml'
INFO: Recovery of the cloned Oracle Database will be performed using all available logs in immediate log backup after the data backup chosen for clone because neither SCN nor time is specified.
INFO: Job 'Clone from backup 'stddb-ds_rhel-linux_11-24-2015 00.55.10.2377_0'' QUEUED with jobId '364'
INFO: The command "New-SmClone" executed successfully.
```

**See Also**
New-SmMountBackup - Mounts an existing backup.

Description

Initiates a mount operation.

Usage

```
scli New-SmMountBackup -BackupName <backup name> -HostName <host name> -AppObject1d <appObject Id> [-SecondaryLocator 'Primary=<SVM>:<volume>,Secondary=<SVM>:<volume>'] [-AppPluginCode <SCO | SCU>] [-AsmRunAsName <ASM RunAs name>] [-AsmPort <ASM port>] [-WaitForCompletion]
```

Parameters

- **BackupName**
  Specifies the name of the backup which you want to mount.

- **HostName**
  Specifies the host where you want to perform backup mount operation.

- **AppObject1d**
  Specifies the application object identifier whose backup you want to mount. You need to specify the application object identifier format as 'host\database' for Oracle standalone database or 'clustername\database' for Oracle RAC database.

- **SecondaryLocator**
  Specifies the secondary (SnapVault or SnapMirror) storage location details (destination volume) for each unique primary storage (source volume). Specify this option more than once to provide secondary storage location details for multiple unique primary storage. Primary (source volume) and secondary (destination volume) storage location details should be specified as name-value pairs in a comma separated list. For example: `-SecondaryLocator 'Primary=oracle_vs1:db1_data_vol,Secondary=oracle_vs1_mirror:db1_data_vol_mirror'` `-SecondaryLocator 'Primary=oracle_vs2:db1_log_vol,Secondary=oracle_vs2_mirror:db1_data_log_mirror'.`

- **AppPluginCode**
  Specifies the type of plug-in. You need to specify a plug-in type because mount operation is specific to one type of plug-in. For example, if you want to mount a backup of resource contained in a SnapCenter Plug-in for Oracle Database, the plug-in type is SCO. Possible Values: [SCO, SCU]
**-AsmRunAsName**

Specifies the ASM Run As. You need to specify ASM credential for the ASM configured database to connect to the ASM instance.

**-AsmPort**

Specifies port number for ASM instance. You need to specify port number for the ASM configured database to connect to the ASM instance.

Default: 1521

**-WaitForCompletion**

Indicates whether to wait till the mount backup job is completed.

**Examples**

The following example displays how a new mount operation is initiated.

```
[root@rhel-linux ~]# sccli New-SmMountBackup -AppObjectId 'rhel-linux.netapp.com\STDDB'
  -BackupName stddb ds rhel-linux 11-30-2015 22.26.29.4957 0
INFO: The specified backup will be mounted under the path
  '/var/opt/snapcenter/sco/backup_mount/stddb_ds_rhel-linux_11-30-2015_22.26.29.4957_0/STDDB'.
INFO: Using localhost 'rhel-linux.netapp.com' as default host
  for mount operation.
INFO: Job 'Mount Backup stddb ds scomaddev 11-30-2015 22.26.29.4957 0' QUEUED with jobId 65'
INFO: The command 'New-SmMountBackup' executed successfully.
```

**See Also**
New-SmOracleCloneSpecification - Initiates a new Oracle Database clone.

Description

Creates a Oracle Database clone specification from a specified backup.

Usage

sccli New-SmOracleCloneSpecification -AppObjectId <appObject Id> [-BackupName <backup Name> | -CloneLastBackup <number>] -CloneDatabaseSID <database SID> [-IncludeSecondaryDetails]

Parameters

-AppObjectId

Specifies the application object identifier about which you want to get information. Specify the application object identifier format as 'host\database' for Oracle standalone database or 'clusternam\database' for Oracle RAC database.

-BackupName

Specifies the name of the Oracle Database data backup for which clone specification file need to be generated.

-CloneLastBackup

Specifies the last backup to be used for generating clone specification. Value 0 indicates the latest backup.

-CloneDatabaseSID

Specifies the SID for clone database.

-IncludeSecondaryDetails

Indicates that you want to create clone specification with secondary(Snap Vault or Snap Mirror) storage location details.

Examples

The following example generates the template for clone specification file using 3rd recent backup.

[root@rhel-linux ~]# sccli New-SmOracleCloneSpecification -AppObjectld 'rhel-linux.netapp.com\STDBB'
INFO: You have chosen to generate clone specification using last backup number '2' having backup name 'federated-ds_rhel-linux_10-25-2015.22.30.30.4523_0'.

INFO: Oracle clone specification file
'/var/opt/snapcenter/sco/clone_specs/oracle_clonespec_CDB_CDBCLONE_2015-10-25.23.59.12.317.xml'
got created successfully.
INFO: The command 'New-SmOracleCloneSpecification' executed successfully.

The following example generates the template for clone specification file using specified secondary backup.

[root@rhel-linux ~]# sccli New-SmOracleCloneSpecification -AppObjectId 'rhel-linux.netapp.com\STDDB'
-BackupName 'federated-ds_rhel-linux_11-25-2015_00.55.10.2377_0'
-CloneDatabaseSID 'CLONE12C' -IncludeSecondaryDetails

INFO: Oracle clone specification file
'/var/opt/snapcenter/sco/clone_specs/oracle_clonespec_CDB_CLONE12C_2015-11-26_00.20.29.237.xml'
got created successfully.
INFO: The command 'New-SmOracleCloneSpecification' executed successfully.

The below is the clone specification template which will get generated. This can be edited to suite your requirements.

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<oracle-clone-specification>
  <!-- The backupname, appobjectid and clone-database-sid information are must for cloning -->
  <backupname>federated-ds_rhel-linux_11-25-2015_00.55.10.2377_0</backupname>
  <appobjectid>rhel-linux.netapp.com\CDB</appobjectid>
  <clone-database-sid>CLONE12C</clone-database-sid>
  <storage-specification>
    <storage-mapping>
      <data-files-configuration>
        <data-files-locations>
          <!-- Specify mappings for all the datafiles location by using the below data-files-location structure -->
          <data-files-location>
            <source-location>/mnt/CDB_data</source-location>
            <clone-location>/mnt/CDB_data_CLONE12C</clone-location>
            <location-type>MountPoint</location-type>
            </data-files-location>
        </data-files-locations>
      </data-files-configuration>
    </storage-mapping>
  </storage-specification>
</oracle-clone-specification>
```
<secondary-locators>
<!-- Specify mappings for data files secondary (SnapVault or SnapMirror) storage locations if exists by using the below secondary-locator structure -->
  <secondary-locator>
    <primary>
      <svm>my-vsim1.eng.btc.netapp.in</svm>
      <volume>cdb_data_vol</volume>
    </primary>
    <secondary>
      <svm>my-vsim4.eng.btc.netapp.in</svm>
      <volume>cdb_data_vol_mirror</volume>
    </secondary>
  </secondary-locator>
</secondary-locators>
</secondary-configuration-datafiles>
<secondary-configuration-archivelogs>
  <secondary-locators>
    <!-- Specify mappings for archive logs secondary (SnapVault or SnapMirror) storage locations if exists by using the below secondary-locator structure -->
    <secondary-locator>
      <primary>
        <svm>my-vsim2.eng.btc.netapp.in</svm>
        <volume>cdb_log_vol</volume>
      </primary>
      <secondary>
        <svm>my-vsim3.eng.btc.netapp.in</svm>
        <volume>cdb_log_vol_mirror</volume>
      </secondary>
    </secondary-locator>
  </secondary-locators>
</secondary-configuration-archivelogs>
</storage-mapping>
</storage-specification>
<database-specification>
  <control-files-configuration>
    <control-files>
      <!-- Specify the file path for the control file need to be created for clone database -->
      <control-file>
        <path>/mnt/CDB_data_CLONE12C/CLONE12C/control/control01.ctl</path>
      </control-file>
      <control-file>
        <path>/mnt/CDB_data_CLONE12C/CLONE12C/control/control02.ctl</path>
      </control-file>
    </control-files>
  </control-files-configuration>
  <redologs-configuration>
    <redologs>
      <!-- Specify the redo groups that need to be created for clone database. Minimum 3 redo groups need to be specified -->
      <redogroup>
        <redolog-files>
        </redolog-files>
      </redogroup>
    </redologs>
    <!-- Multiple redo log files can be specified for a redo group -->
  </redologs-configuration>
</database-specification>
<!-- Specify sys user runas name for database authentication of the clone database. Leave this blank if you do not want db authentication-->
<database-authentication>
  <runas-name/>
  <port>1521</port>
</database-authentication>

<!-- Specify the oracle version for the clone database -->
<oracle-version>12.1.0.2.0</oracle-version>

<!-- Specify the oracle home for the clone database. Need to be implemented in mapping -->
<oracle-home>/u01/app/oracle/product/12.1.0.2/db_1</oracle-home>

<!-- Specify the oracle os account details for the clone database -->
<oracle-os-account>
  <username>oracle</username>
  <group>oinstall</group>
</oracle-os-account>

<!-- Specify runas name for ASM authentication of the clone database. Leave this blank if you do not want ASM authentication-->
<asm-authentication>
  <runas-name/>
  <port>1521</port>
</asm-authentication>

<!-- Specify whether to enable archive log mode for the clone database -->
<enable-archivelog-mode>true</enable-archivelog-mode>

<!-- Specify the custom database parameteres for the clone database. If those parameters already exists then value will be overridden. -->
<database-parameters>
    <database-parameter>
        <name>processes</name>
        <value>150</value>
    </database-parameter>
    <database-parameter>
        <name>sga_target</name>
        <value>805306368</value>
    </database-parameter>
    <database-parameter>
        <name>log_archive_dest_1</name>
        <value>LOCATION=/mnt/CDB_archive_CLONE12C</value>
    </database-parameter>
    <database-parameter>
        <name>log_archive_format</name>
        <value>%t_%s_%r.dbf</value>
    </database-parameter>
    <database-parameter>
        <name>undo_tablespace</name>
        <value>UNDOTBS1</value>
    </database-parameter>
    <database-parameter>
        <name>remote_login_passwordfile</name>
        <value>EXCLUSIVE</value>
    </database-parameter>
    <database-parameter>
        <name>audit_file_dest</name>
        <value>/u01/app/oracle/admin/CDB/adump_CLONE12C</value>
    </database-parameter>
    <database-parameter>
        <name>audit_trail</name>
        <value>DB</value>
    </database-parameter>
    <database-parameter>
        <name>open_cursors</name>
        <value>300</value>
    </database-parameter>
    <database-parameter>
        <name>pga_aggregate_target</name>
        <value>268435456</value>
    </database-parameter>
</database-parameters>

<!-- Specify sql statements that need to be executed once the clone database is created. -->
<sql-statements>
    <!-- sql statements should contain semicolon(;) -->
    <sql-statement>SELECT STATUS FROM V$INSTANCE;</sql-statement>
</sql-statements>

<!-- Specify the new name for existing pdbss using the below configuration. This is applicable only for Oracle 12c CDB -->
<pdbs-configuration>
<pdb-configuration>
  <current-name>SALESDB</current-name>
  <new-name></new-name>
</pdb-configuration>

<pdb-configuration>
  <current-name>HRDB</current-name>
  <new-name></new-name>
</pdb-configuration>

<pdb-configuration>
  <current-name>PRODDB</current-name>
  <new-name></new-name>
</pdb-configuration>
</pdbs-configuration>
</database-specification>
</oracle-clone-specification>

See Also
New-SmUnmountBackup - Unmounts an existing mounted backup.

Description

Initiates an unmount operation.

Usage

sccli New-SmUnmountBackup -BackupName <backup name> [-AppPluginCode <SCO | SCU>] [-WaitForCompletion]

Parameters

- **BackupName**
  
  Specifies the name of the backup that you want to unmount.

- **AppPluginCode**
  
  Specifies the type of plug-in. You need to specify a plug-in type because unmount of backup is specific to one type of plug-in. For example, if you want to unmount a backup of a resource contained in a SnapCenter Plug-in for Oracle Database, the plug-in type is SCO.
  
  Possible Values: [SCO, SCU]
  
  Default: SCO

- **WaitForCompletion**
  
  Indicates whether to wait till the unmount backup job is completed.

Examples

The following example displays how a new unmount backup operation is initiated.

```
[root@rhel-linux ~]# sccli New-SmUnmountBackup -BackupName stdbb ds rhel-linux 11-30-2015_22.26.29.4957_0
Are you sure you want to unmount the specified backup from SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): y

INFO: Job 'Unmount Backup stdbb ds scomaddev 11-30-2015 22.26.29.4957_0' QUEUED with jobId '66' -
INFO: The command 'New-SmUnmountBackup' executed successfully.
```

See Also
Open-SmConnection - Initiates a connection session with the SnapCenter, for a specified user.

Description

Initiates a connection session with the SnapCenter, for a specified user. The session token is valid for 24 hours.

Usage

sccli Open-SmConnection [-Username <username>] [-RoleName <rolename>] [-TokenNeverExpires]

Parameters

- **Username**
  Specifies the domain and user name for the SnapCenter user for whom you wish to establish a session. Specify the SnapCenter user in the format 'domain\username'.

- **RoleName**
  If SnapCenter user belongs to multiple roles, specifies the role with which you want to log in.

- **TokenNeverExpires**
  Indicates that you want to establish a session whose token never expires.

Examples

The following example displays how a new connection session with the SnapCenter is initiated.

```bash
[root@rhel-linux ~]# sccli Open-SmConnection
Enter the SnapCenter user name: NetApp\Snapadmin
Enter the SnapCenter password:
INFO: A connection session with the SnapCenter was established successfully.
```

See Also

Close-SmConnection
Remove-SmBackup - Deletes the backup(s) from the SnapCenter.

Description

Deletes the backup(s) from the SnapCenter. Specify either backup names or ids to be deleted.

Usage

sccli Remove-SmBackup [-BackupIds <backupId1, backupId2, backupId3 ...> | -BackupNames <backupName1, backupName2, backupName3 ...>] [-DeleteSecondaryMetadata] [-CleanupBackups] [-CleanupSecondaryBackups] [-WaitForCompletion]

Parameters

- **BackupIds**
  Specifies the id of backup that need to be removed. Multiple backup ids can be specified in a comma separated list.

- **BackupNames**
  Specifies the name of the backup that need to be deleted. Multiple backup names can be specified in a comma separated list.

- **DeleteSecondaryMetadata**
  Indicates that the secondary backup metadata of the specified backups should also be deleted.

- **CleanupBackups**
  Indicates that all the backups in SnapCenter that have no Snapshot copies to be cleaned up.

- **CleanupSecondaryBackups**
  Indicates that all the secondary backups in SnapCenter that have no secondary Snapshot copies to be cleaned up.

- **WaitForCompletion**
  Indicates whether to wait till the remove backup job is completed.

Examples

The following example displays how to remove a backup.
The following example displays how to remove a backup and its secondary metadata.

[root@rhel-linux ~]# sccli Remove-SmBackup -BackupIds 15 - DeleteSecondaryMetadata
INFO: You have also chosen to delete the secondary backup metadata of the specified backups.
Are you sure you want to remove the specified backup(s) from SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): y
INFO: The command 'Remove-SmBackup' executed successfully.

The following example displays how to clean up all secondary backups in SnapCenter that do not have secondary Snapshot copies.

[root@rhel-linux ~]# sccli Remove-SmBackup - CleanupSecondaryBackups
INFO: You have chosen to cleanup all the secondary backups in SnapCenter that have no secondary Snapshot copies.
Are you sure you want to cleanup all the secondary backups that have no secondary Snapshot copies from SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): Y
INFO: The command 'Remove-SmBackup' executed successfully.

See Also
Remove-SmClone - Deletes an existing clone.

Description

Deletes an existing clone.

Usage

sccll Remove-SmClone -CloneName <cloneName> [-AppPluginCode <SCO|SCU>] [-WaitForCompletion]

Parameters

-CloneName

Specifies the name of the clone you want to remove.

-AppPluginCode

Specifies the type of plug-in. You need to specify a plug-in type because deletion of clone is specific to one type of plug-in. For example, if you want to delete a clone of a resource contained in a SnapCenter Plug-in for Oracle Database, the plug-in type is SCO.

Possible Values: [SCO, SCU]

Default: SCO.

-WaitForCompletion

Indicates whether to wait till the clone remove job is completed.

Examples

The following example displays the removal of a clone.

[root@rhel-linux ~]# sccll Remove-SmClone -CloneName 'stdddbds__clone__11-25-2015_23.31.23'
Are you sure you want to remove the specified clone from SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): y

INFO: The command 'Remove-SmClone' executed successfully.

See Also
Remove-SmPolicy - Deletes one or more policies from SnapCenter.

Description

Deletes one or more policies from SnapCenter. In order to delete the policies from SnapCenter, you must have already detached them from all the resource groups with which they are associated.

Usage

sccli Remove-SmPolicy -PolicyNames <policy1, policy2, policy3 ...>

Parameters

- PolicyNames

Identifies the policy you want to delete. You can provide an individual policy name or a comma-separated list.

Examples

The following example displays the removal of policies from SnapCenter.

```
[root@rhel-linux ~]# sccli Remove-SmPolicy -PolicyNames 'offline_data_daily'
Are you sure you want to remove the specified policy/policies from SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): Y

ERROR: This policy has Resource Group attached. Please detach the policy from Resource Group before removing the policy.
Server return code: -1
```

```
[root@rhel-linux ~]# sccli Remove-SmPolicy -PolicyNames 'offline_data_daily'
Are you sure you want to remove the specified policy/policies from SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): Y

INFO:The command 'Remove-SmPolicy' executed successfully.
```

See Also
Remove-SmProtectResource - Removes the protection for the resources from the SnapCenter.

Description

This command helps remove the protection for the resources from the SnapCenter.

Usage

sccli Remove-SmProtectResource -Resources host=localhost.domain,type=Oracle Database,names=[ORACLE_DB1,ORACLE_DB2] [-Force]

Parameters

- **-Resources**
  
  Specifies the resource for which you want to remove the protection. You must provide the resource information in a key value format, and it must contain the resource name, type, and the host on which it is located. Valid type values are: Oracle Database. You can include comma-separated values for names. To specify resources from multiple host you can use -Resources option multiple times. For example, -Resources 'host=host1,type=Oracle Database,names=[db1,db2,db3]' -Resources 'host=host2,type=Oracle Database,names=[db3,db4]' 

- **-Force**
  
  Indicates whether to perform force removal of protection.

Examples

The following example displays how to remove protection for a single or multiple resources.

```
[root@rhel-linux ~]# sccli Remove-SmProtectResource -Resources 'host=rhel-linux.netapp.com,type=Oracle Database,names=[ORACLE_DB1, ORACLE_DB2]' -Force
Are you sure you want to remove protection for the specified resources from SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): Y
ERROR: Resource ORACLE_DB2 is not protected.
```

```
[root@rhel-linux ~]# sccli Remove-SmProtectResource -Resources 'host=host1-linux.netapp.com,type=Oracle Database,names=[ORACLE_DB1]' -Resources 'host=host2-linux.netapp.com,type=Oracle Database,names=[ORACLE_DB3]' -Force
```
resources from SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): Y

INFO: The command 'Remove-SmProtectResource' executed successfully.

See Also
Remove-SmResourceGroup - Deletes resource groups from SnapCenter.

**Description**

Deletes one or more existing resource groups.

**Usage**

```
sccli Remove-SmResourceGroup -ResourceGroupNames <resourceGroup1, resourceGroup2, resourceGroup3 ...> [-Force]
```

**Parameters**

- **-ResourceGroupNames**

  Specifies the name of the resource group that needs to be removed. Multiple resource group names can be specified in a comma separated list.

- **-Force**

  Indicates whether to perform force removal of resource groups.

**Examples**

The following example displays the removal of resource groups.

```
[root@rhel-linux ~]# sccli Remove-SmResourceGroup -ResourceGroupNames 'stddb ds'
Are you sure you want to remove the specified resource group from SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): Y
ERROR: Detach any policies from resource group stddb_ds before you delete it.
To detach policies, go to the resource group page and click Modify.
From the Modify resource group wizard, deselect the policies attached to the resource group
Server return code: 0
```

```
[root@rhel-linux ~]# sccli Remove-SmResourceGroup -ResourceGroupNames 'stddb_ds' -Force
Are you sure you want to remove the specified resource group from SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): Y
```
INFO: The command 'Remove-SmResourceGroup' executed successfully.

See Also
Remove-SmRunAs - Deletes a Run As account from SnapCenter.

Description

Deletes a Run As account from SnapCenter.

Usage

sccli Remove-SmRunAs -Name <Run As name>

Parameters

-Name

Specifies name of the Run As account to be removed.

Examples

The following example displays the removal of Run As account from SnapCenter.

```
[root@rhel-linux ~]# sccli Remove-SmRunAs -Name 'snap-server'
Are you sure you want to remove the specified Run As account from SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): Y
INFO: The command 'Remove-SmRunAs' executed successfully.
```

See Also
Remove-SmStorageConnection - Deletes an Storage Virtual Machine (SVM) connection.

Description

Deletes an SVM connection. You can remove one SVM connection at a time.

Usage

sccli Remove-SmStorageConnection -SVM <SVM name or IP>

Parameters

-SVM

Specifies name or IP address of the Storage Virtual Machine.

Examples

The following example displays the removal of a Storage Virtual Machine connection from the SnapCenter.

```
[root@rhel-linux ~]# sccli Remove-SmStorageConnection -SVM 'my-vsim1.eng.btc.netapp.in'
Are you sure you want to remove the specified storage connection from SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): Y
INFO: The command 'Remove-SmStorageConnection' executed successfully.
```

See Also
Removes-SvmPreferredDataPath - Deletes the SVM preferred data path.

Description

Deletes the SVM preferred data path entry from storage preference configuration file. You can remove one SVM preferred data path entry at a time.

Usage

sccli Removes-SvmPreferredDataPath -SVM <SVM Name>

Parameters

-SVM

Specifies the name of the Storage Virtual Machine for which you want to remove the preferred data path.

Examples

The following example displays how to remove SVM preferred data path.

[root@rhel-linux ~]# sccli Remove-SvmPreferredDataPath -SVM 'tonic'
Are you sure you want to remove the specified SVM preferred data path?
Enter either [Y] Yes or [N] No (default is 'N'): Y
INFO: Preferred data path entry for SVM 'tonic' removed successfully.
INFO: The command 'Remove-SvmPreferredDataPath' executed successfully.

See Also
**Rename-SmBackup - Rename existing backup on SnapCenter.**

**Description**

Rename an existing backup on SnapCenter. You can specify the existing backup name, new backup name, and the plug-in type.

**Usage**

```bash
sccli Rename-SmBackup -BackupName <BackupName> -NewBackupName <NewBackupName> [-PluginType <SCO | SCU>]
```

**Parameters**

- **-BackupName**
  Specifies the backup you want to rename. You can provide an individual backup name.

- **-NewBackupName**
  Specifies the new name of the backup.

- **-PluginType**
  Specifies the type of plug-in. You need to specify a plug-in type. For example, if you want to rename a backup for resources contained in a SnapCenter Plug-in for Oracle Database, the plug-in type is SCO.
  Possible Values: [SCO, SCU]
  Default: SCO

**Examples**

The following command displays the usage of the rename command of backup.

```
[root@rhel-linux ~]# sccli Rename-SmBackup -BackupName 'existing_backup' -NewBackupName 'New_Backup_name' -PluginType SCO
INFO: The command 'Rename-SmBackup' executed successfully.'
```

**See Also**
Restore-SmBackup - Restore data from the backup.

Description

Restore data from the backup.

Usage


Parameters

- **BackupId**

  Specifies the backup ID.

- **BackupName**

  Specifies the backup name.

- **RestoreLastBackup**

  Specifies the last backup to be used for restore. Value 0 indicates the latest backup.

- **AppObjectId**

  Specifies the application object identifier which you want to restore. Specify the application object identifier format as 'host\database' for Oracle standalone database or 'clusternamel\database' for Oracle RAC database.

- **PluginCode**

  Specifies the plug-in code for the restore operation.

  Possible Values: [SCO, SCU]
Default: SCO

- **SecondaryLocator**

Specifies the secondary (SnapVault or SnapMirror) storage location details (destination volume) for each unique primary storage (source volume). Specify this option more than once to provide secondary storage location details for multiple unique primary storage. Primary (source volume) and secondary (destination volume) storage location details should be specified as name-value pairs in a comma separated list. For example: -SecondaryLocator 'Primary=oracle_vs1:db1_data_vol,Secondary=oracle_vs1_mirror:db1_data_vol_mirror' - SecondaryLocator 'Primary=oracle_vs2:db1_log_vol,Secondary=oracle_vs2_mirror:db1_data_log_mirror'.

- **OracleFullRestore**

Indicates that you want to restore the complete Oracle database (datafiles).

- **OracleControlFileRestore**

Indicates that you want to restore Oracle control files.

- **RestoreOnClusterHost**

Specifies the host of a cluster on which restore operation need to be performed. This option should be specified only for an Oracle RAC database. If not specified restore will be done on the host where the backup was taken.

- **RestoreOracleRedoLogFile**

Indicates that you want to restore Oracle redo log files. Redo log file restore is only supported for Data Guard and Active Data Guard standby database.

- **OraclePluggableDatabases**

Specifies a list of pluggable databases to be restored. Multiple pluggable databases can be specified in a comma separated list.

- **OracleTablespaces**

Specifies a list of tablespaces to be restored. Multiple tablespaces can be specified in a comma separated list.

- **OracleChangeState**

Indicates that you want to allow change database state during restore operation.

- **OracleSkipRecovery**

Indicates that you want to skip recovery of Oracle database.

- **OracleUntilScn**
Specifies the SCN of logs till which you want to recover.

- **OracleUntilTime**

Specifies the date and time till which you want to recover. You must specify the date and time in the 'yyyy-MM-dd HH:mm:ss' format. For example: '2015-01-26 20:30:00'.

- **AlternateArchiveLogPaths**

Specifies the alternate paths for archive logs to be used for recovery. Multiple alternate archive log paths can be specified in a comma separated list.

- **OracleOpenDatabaseAfterRecovery**

Indicates that you want to open the database after recovery is performed.

- **OracleOpenPluggableDatabasesAfterRecovery**

Specifies that the pluggable databases must be opened after recovery is performed.

- **OracleOpenTablespacesAfterRecovery**

Specifies that the tablespaces must be opened after recovery is performed.

- **ForceInplaceRestore**

Indicates that you want to perform In Place restore which will bypass all restore validations.

- **PreScriptPath**

Specifies the prescript path. For SnapCenter Plug-in for Oracle Database, any executable script should be located at '/var/opt/snapcenter/spl/scripts' or any directory underneath scripts folder and the complete absolute path must be specified.

- **PreScriptArguments**

 Specifies the prescript arguments. Multiple arguments can be specified in a space separated list. For example: 'arg1 arg2 arg3'.

- **PostScriptPath**

 Specifies the postscript path. For SnapCenter Plug-in for Oracle Database, any executable script should be located at '/var/opt/snapcenter/spl/scripts' or any directory underneath scripts folder and the complete absolute path must be specified.

- **PostScriptArguments**

 Specifies the postscript arguments. Multiple arguments can be specified in a space separated list. For example: 'arg1 arg2 arg3'.

- **ScriptTimeout**
Specifies the script timeout in seconds. If not specified, the value defaults to 60 seconds.
Default: 60

- EnableEmail

Indicates whether to enable email notification.

- EmailTo

Specifies to whom email need to be sent.

- EmailFrom

Specifies from whom email has to be sent.

- EmailSubject

Specifies subject for the email.

- EmailPreference

Specifies when emails should be sent.
Possible Values: [ALWAYS, ON_ERROR, ON_ERROR_OR_WARNING, NEVER]

- WaitForCompletion

Indicates whether to wait till the restore job is completed.

Examples

The following example displays how to restore all datafiles with control file of an Oracle Database from backup and recover till SCN using logs in alternate location.

[root@rhel-linux ~]# sccli Restore-SmBackup -BackupId 3 -
AppObjectId 'rhel-linux.netapp.com\STDDB'
-OracleChangeState -OracleFullRestore -OracleControlFileRestore
-OracleUntilScn '3234156' -OracleOpenDatabaseAfterRecovery
-AlternateArchiveLogPaths '/mnt/recover_logs/1,'
/mnt/recover_logs/2'
INFO: You have chosen to restore the control files.

Are you sure you want to perform restore on the specified
t(entity/entities with the above options?
Enter either [Y] Yes or [N] No (default is 'N'): Y

INFO: Job 'Restore 'rhel-linux.netapp.com\STDDB'' QUEUED with
jobId '76'
INFO: The command 'Restore-SmBackup' executed successfully.

The following example displays how to restore Oracle pluggable databases from 2nd recent backup
with All logs recovery.
The following example displays how to restore tablespaces of an Oracle pluggable database from backup with All logs recovery.

```
[root@rhel-linux ~]# sccli Restore-SmBackup -BackupName CDB_rhel-linux_01-14-2016 20.07.57.9759_0
     -AppObjectId 'rhel-linux.netapp.com\CDB'
     -OracleChangeState -OraclePluggableDatabases 'SALESDB'
     -OracleTablespaces 'CLIENTS, REPORT, CREDIT' -OracleOpenTablespacesAfterRecovery

  INFO: Job 'Restore 'rhel-linux.netapp.com\CDB'' QUEUED with jobId '80'
  INFO: The command 'Restore-SmBackup' executed successfully.
```

See Also
Set-PreferredHostIPsInStorageExportPolicy - Updates the preferred IP addresses of the host for the storage export policy.

Description

Updates the preferred IP addresses of the host for the storage export policy. Allows you to choose/control the IP addresses of the host to be added to the storage export policy for Mount and Clone operations. By default all the IP addresses of the host are added by SnapCenter to the storage export policy.

Usage

```
sccli Set-PreferredHostIPsInStorageExportPolicy -IpAddresses <IpAddr1, IpAddr2, ..., IpAddrN>
```

Parameters

- `IpAddresses`

Specifies a list of preferred IP address of the host for storage export policy. Multiple IP addresses can be specified in a comma separated list.

Examples

The following example displays how to update the preferred IP addresses of the host in storage export policy.

```
[root@rhel-linux ~]# sccli Set-PreferredHostIPsInStorageExportPolicy -IpAddresses '192.168.1.1, 192.168.1.2'
INFO: Preferred IP addresses of the host for storage export policy are updated successfully.
INFO: The command 'Set-PreferredHostIPsInStorageExportPolicy' executed successfully.
```

```
[root@rhel-linux ~]# sccli Set-PreferredHostIPsInStorageExportPolicy -IpAddresses '192.168.1.1, 192.168.1.2, 192.168.1.3, 192.168.1.4'
Are you sure you want to overwrite the existing preferred IP addresses of the host for storage export policy?
Enter either [Y] Yes or [N] No (default is 'N'): Y
INFO: Preferred IP addresses of the host for storage export policy are updated successfully.
INFO: The command 'Set-PreferredHostIPsInStorageExportPolicy' executed successfully.
```
See Also
Set-SmConfigSettings - Sets the configuration settings.

Description
Sets the configuration settings for plugin and server. Multiple configuration parameters can be set by specifying the values in a key value pair.

Usage
```
sccli Set-SmConfigSettings [-PluginCode <SCO | SCU>] [-HostName <hostname>] -ConfigSettings 'KEY=<keyName>,VALUE=<value>' -ConfigSettingsType <Plugin | Server>
```

Parameters

- **PluginCode**
  Specifies the plugin code for which the configuration settings have to be set.

- **HostName**
  Specifies the host for which the configuration settings have to be set.

- **ConfigSettings**
  Specifies the configuration parameters that you want to set. You must provide the configuration parameter in a key value format and it must contain the KEY and VALUE. -ConfigSettings "KEY=ORACLE_SQL_QUERY_TIMEOUT,VALUE=190". To set multiple configuration parameters, you can use -ConfigSettings option multiple times.

- **ConfigSettingsType**
  Specifies the type of configuration settings which needs to be retrieved. If config settings type is of plugin, then plugin code must be specified.

Examples
The following example displays how to set configuration settings for a plugin.

```
[root@scspr0121175002 ~]# sccli Set-SmConfigSettings -ConfigSettingsType Plugin -PluginCode SCO -ConfigSettings "KEY=ORACLE_SQL_QUERY_TIMEOUT,VALUE=190"
INFO: The command 'Set-SmConfigSettings' executed successfully.
```
See Also
Set-SmPolicy - Modifies an existing policy.

**Description**

Modifies an existing backup policy.

**Usage**

```
```

**Parameters**

**-PolicyName**

Specifies the name of the policy you want to modify.

**-PolicyType**

Specifies the policy type.
Possible Values: [BACKUP]

**-PluginPolicyType**

Specifies the plug-in type. You need to specify a plug-in type because policies are settings that are specific to a type of plug-in. For example, if you want to create a policy for Oracle resources or Oracle resource groups, the plug-in type is SCO.
Possible Values: [SCO, SCU]
Default: SCO
- **Description**

Provides a description of the policy you are modifying.

- **UpdateSnapMirrorAfterbackup**

Indicates that you want to update the SnapMirror relationship after the backup operation. SnapMirror is disabled by default.

- **MirrorVaultUpdateRetryCount**

Specifies the retry count for SnapMirror or SnapVault update.
Default: 3

- **UpdateSnapVaultAfterbackup**

Indicates that you want to update the SnapVault relationship after the backup operation. SnapVault is disabled by default.

- **SnapVaultLabel**

Provides a SnapVault label.

- **ScheduleType**

Specifies the scheduler type.
Possible Values: [HOURLY, DAILY, WEEKLY, MONTHLY]

- **VerificationScheduleType**

Specifies the verification scheduler type.
Possible Values: [HOURLY, DAILY, WEEKLY, MONTHLY]

Only backup schedule type can be part of verification schedule type. If the schedule type is not part of backup schedule type then it cannot be added to verification schedule.

- **VerificationScriptOptions**

Specifies verification script options, which are run after verification of backup, arguments are optional you can specify only required once. For SnapCenter Plug-in for Oracle Database, any executable script should be located at '/var/opt/snapcenter/spl/scripts' or any directory underneath scripts folder and the complete absolute path must be specified. Multiple arguments can be specified in a space separated list. For example: 'arg1 arg2 arg3'. For example -VerificationScriptoptions

ScriptTimeout=10,PreScriptPath=/var/opt/snapcenter/spl/scripts/name-of-the-script,postScriptPath=/var/opt/snapcenter/spl/scripts/name-of-the-script,PreScriptArguments=arg1 arg2 ... argN,PostScriptArguments=arg1 arg2 ... argN

- **RetentionSettings**

Specifies the retention period of the backup. Retention count specifies the number of backups that you want to keep. If the number of backups exceed the specified number, the backups are deleted with the oldest backup deleted first. Retention days specifies the number of days for which you want
to keep the Snapshot copies before deleting them. If the retention period is not specified, the default retention period of RetentionCount=7 will be applied to schedule type of the backup scope. You can specify RetentionCount or RetentionDays but not both. If SCHEDULETYPE is not specified, then retention period is applied to on-demand backup policy. For example -RetentionSettings BackupScope=DATA,SCHEDULETYPE=HOURLY,RetentionCount=2, -RetentionSettings BackupScope=DATA,SCHEDULETYPE=DAILY,RetentionDays=10, -RetentionSettings BackupScope=LOG,RetentionDays=10.

- **PreScriptPath**

Specifies the prescript path. For SnapCenter Plug-in for Oracle Database, any executable script should be located at '/var/opt/snapcenter/spl/scripts' or any directory underneath scripts folder and the complete absolute path must be specified.

- **PreScriptArguments**

Specifies the prescript arguments. Multiple arguments can be specified in a space separated list. For example: 'arg1 arg2 arg3'.

- **PostScriptPath**

Specifies the postscript path. For SnapCenter Plug-in for Oracle Database, any executable script should be located at '/var/opt/snapcenter/spl/scripts' or any directory underneath scripts folder and the complete absolute path must be specified.

- **PostScriptArguments**

Specifies the postscript arguments. Multiple arguments can be specified in a space separated list. For example: 'arg1 arg2 arg3'.

- **ScriptTimeout**

Specifies the script timeout value in seconds. If not specified, the default value is 60 seconds. Default: 60

- **OracleBackupType**

Specifies the type of Oracle Database backup. Possible Values: [ONLINE, OFFLINEMOUNT, OFFLINESHUTDOWN]

- **OracleBackupScope**

Specifies the scope of Oracle Database backup. Possible Values: [FULL, DATA, LOG]

- **OracleSkipPDBSaveState**

Indicates whether to skip saving the state of pluggable databases.

- **OracleDeleteArchiveLogBackup**
Indicates whether to delete the older archive log backups based on ArchiveLogBackupRetentionType.

- **OracleArchiveLogBackupRetentionType**

   Specifies the retention type for archive log backup.
   Possible Values: [DayBase, CountBase]

- **OracleDeleteArchiveLogBackupDays**

   Specifies the number of days for which the archive log backups must be retained before deleting.

- **OracleDeleteArchiveLogBackupCounts**

   Specifies the maximum number of archive log backups to be retained.

- **OraclePruneArchiveLog**

   Indicates whether to prune archive logs after log backup.

- **OraclePruneArchiveLogDestinationType**

   Specifies the type of destinations to prune archive logs.
   Possible Values: [AllDestinations, OnlyBackupDestinations]
   Default: AllDestinations

- **OraclePruneArchiveLogType**

   Specifies the type of archive log pruning.
   Possible Values: [AllLogs, OlderLogs]

- **OraclePruneArchiveLogOlderThanDays**

   Specifies the number of days for which the archive log backups must be retained before pruned.

- **CatalogBackupWithOracleRMAN**

   Indicates whether the backup should be cataloged using Oracle Recovery Manager (RMAN).

### Examples

The following example shows how to modify an existing policy.

```
[root@rhel-linux ~]# sccli Set-
SmPolicy -PolicyName 'offline_data_daily'
   -PolicyType BACKUP -
PluginPolicyType SCO
   -PolicyType BACKUP -
Policy with hourly schedule changed to weekly'
   -OracleBackupScope DATA
   -OracleBackupScope OFFLINEMOUNT -
```
INFO: The command 'Set-SmPolicy' executed successfully.

See Also
Set-SmProtectResource - Modifies policies and schedules of the resource.

Description
Modifies policies and schedules of the resource.

Usage
sccli Set-SmProtectResource [-Description <description>] [-PluginCode <SCO | SCU>] [-Policies <policy1, policy2, ...], policyN>] -Resource host=localhost.domain,type=Oracle Database,names=[db1] -Schedules PolicyName=name-of-the-policy,ScheduleType=[HOURLY | DAILY | WEEKLY | MONTHLY],StartTime=YYYY-MM-DD hh:mm:ss,EndTime=YYYY-MM-DD hh:mm:ss,Repeat_Every_Hour=hh::mm,DaysInterval=number-of-days,DaysOfTheWeek=[SUNDAY, MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY],MonthsOfYear=[January, February, March, April, May, June, July, August, September, October, November, December],DaysOfTheMonth=[1, 2, 3, 5, 7, 8, 10, 11, 13, 14, 15, 16, 17, 19, 20, 22, 23, 25, 26, 28, 29, 30, 31], -VerificationSchedules BackupPolicyName=name-of-the-backup-policy,BackupScheduleType=scheduletype-of-the-backup-policy,DeferredBackupCount=number-of-backup-count-to-be-deferred,VerifyOnSecondary=[true | false],VerificationType=[VERIFY_AFTER_BACKUP | VERIFY_SCHEDULED],ScheduleType=[HOURLY | DAILY | WEEKLY | MONTHLY],StartTime=YYYY-MM-DD hh:mm:ss,EndTime=YYYY-MM-DD hh:mm:ss,Repeat_Every_Hour=hh::mm,DaysInterval=number-of-days,DaysOfTheWeek=[SUNDAY, MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY],MonthsOfYear=[January, February, March, April, May, June, July, August, September, October, November, December],DaysOfTheMonth=[1, 2, 3, 5, 7, 8, 10, 11, 13, 14, 15, 16, 17, 19, 20, 22, 23, 25, 26, 28, 29, 30, 31], -ExcludeArchiveLogDestinationsFromBackup 'location1,location2, ..., locationN]' -[BackupArchiveLogsAfterRecentMissingOne] -[RemoveCustomSnapShot] -[CustomSnapShotFormat] -[SecondaryLocator 'Primary=<SVM>:<volume>,Secondary=<SVM>:<volume>'] -[EnableEmail] -[EmailTo <email address>] -[EmailFrom <email address>] -[EmailSubject <subject>] -[EmailPreference <ALWAYS | ON_ERROR | ON_ERROR_OR_WARNING | NEVER>]

Parameters

- Description
Provides an optional description of the resource to be protected.

- PluginCode
Specifies the plug-in code for the resource to be protected.
Possible Values: [SCO, SCU]
Default: SCO

- Policies
Specifies one or more policies you want to attach to the resource. Multiple policies can be specified in a comma separated values.

- Resource
Specifies the resource you want to protect. You must provide the resource information in a key value format, and it must contain the resource name, type, and the host on which it is located. Valid type values are: Oracle Database. For example, -Resource 'host=host1,type=Oracle Database,names=[db1]'

- Schedules
Specifies the schedules you want to add to the resource. You must provide the schedule information in a key value format, and it must contain the policy name, schedule type, required schedule arguments depending on the schedule type and the start time. Schedule type can be HOURLY|DAILY|WEEKLY|MONTHLY. It is necessary to specify the required arguments depending on the schedule type. HOURLY: Repeat_Every_Hour - Specifies that you want backups to be created with an interval of a designated hour::minute. The default value is 1. DAILY: DaysInterval - Specifies that you want backups to be created with an interval of a designated number of days. The default value is 1. WEEKLY: DaysOfTheWeek - Specifies that you want backups to be created on designated days of the week. The values are specified in a comma separated list. MONTHLY: MonthsOfYear - Specifies that you want backups to be created on designated months. The values are specified in a comma separated list. DaysOfTheMonth - Specifies that you want backups to be created on the designated days of the month. The values are specified in a comma separated list. If EndTime is not specified, schedules will run indefinitely.

- VerificationSchedules
Specifies the verification schedules you want to add to the resource. Verification must be enabled for the schedule types specified in the policy to verify the backup. You must provide the verification schedules information in a key value format, and it must contain the backup policy name, backup schedule type, verification type. Depending on the verification type you need to specify other required schedule arguments. If verification type is VERIFY_AFTER_BACKUP then it is not required to specify the schedule details. However, if it is VERIFY_SCHEDULED, then it is necessary specify schedule type and its related schedule arguments. These arguments are the same as you had specified for the -Schedules option. The verification schedule type cannot be lower than the backup schedule type. For example, if backup schedule type is WEEKLY then verification schedule type cannot be DAILY, it should be greater than or equal to WEEKLY.

- ExcludeArchiveLogDestinationsFromBackup
Specifies the archive log destinations to be excluded from backup. Archive log files present in the specified destinations will be excluded during log backup. Multiple entries can be specified using comma separated list. For example: -ExcludeArchiveLogDestinationsFromBackup 'archive1,archive2,archive3'.

- BackupArchiveLogsAfterRecentMissingOne
Specifies that you want to backup archive log files, which are created after the most recent missing archive log files and ignore the files created prior to it. If this option is not specified then all archive log files except the missing archive log files are backed up.

- RemoveCustomSnapShot
Specifies the removal of the custom naming format of the Snapshot copy.
- **CustomSnapShotFormat**
  Specifies the custom naming format to be used. Specify the format using keywords like $ResourceGroup, $Policy, $ScheduleType, $HostName and $CustomText.

- **SecondaryLocator**
  Specifies the secondary (SnapVault or SnapMirror) storage location details (destination volume) for each unique primary storage (source volume) of resource on which you want to perform secondary verification. Specify this option more than once to provide secondary storage location details for multiple unique primary storage. Primary (source volume) and secondary (destination volume) storage location details should be specified as name-value pairs in a comma separated list. For example: -SecondaryLocator 'Primary=oracle_vs1:db1_data_vol,Secondary=oracle_vs1_mirror:db1_data_vol_mirror' -SecondaryLocator 'Primary=oracle_vs2:db1_log_vol,Secondary=oracle_vs2_mirror:db1_data_log_mirror'.

- **EnableEmail**
  Indicates whether to enable email notification.

- **EmailTo**
  Specifies to whom the email has to be sent.

- **EmailFrom**
  Specifies from whom the email has to be sent.

- **EmailSubject**
  Specifies subject for the email.

- **EmailPreference**
  Specifies when emails should be sent.
  Possible Values: [ALWAYS, ON_ERROR, ON_ERROR_OR_WARNING, NEVER]

**Examples**

The following example shows how to modify policies and schedules attached to a resource.

```
[root@rhel-linux ~]# sccli Set-SmProtectResource
  -Description 'Modifying attached policy to Resource' -PluginCode 'SCO'
  -Resource 'host=rhel-linux.netapp.com,type=Oracle Database,names=[ORACLE_DB1]'
  -Policies 'policy_with_schedule,offline_data_daily,hourly'
  -Schedules
    PolicyName=policy_with_schedule,ScheduleType=WEEKLY,StartTime='2016-08-18 13:19:59',
    EndTime='2016-09-03 13:27:59',DaysOfTheWeek=[Friday,Saturday]
    -Schedules
      PolicyName=offline_data_daily,ScheduleType=DAILY,StartTime='2016-08-18 13:19:59',
      EndTime='2016-09-03 13:27:59',DaysInterval=10
      -VerificationSchedules
        BackupPolicyName='policy_with_schedule',BackupScheduleType='WEEKLY',DeferredBackupCount='1',
        VerificationType='VERIFY_SCHEDULED',VerifyOnSecondary='true',ScheduleType='WEEKLY',DaysOfTheWeek=[Friday,Saturday],
        -VerificationSchedules
          BackupPolicyName='offline_data_daily',BackupScheduleType='DAILY',DeferredBackupCount='1',
          VerificationType='VERIFY_AFTER_BACKUP',VerifyOnSecondary='false'
```

INFO: The command 'Set-SmResourceGroup' executed successfully.
See Also
Set-SmResourceGroup - Modifies a resource group.

Description
Modifies a resource group.

Usage
```
sc Cl Set-SmResourceGroup -ResourceGroupName <resource group name> [-Description <description>] [-PluginCode <SCO | SCU>] [-Policies <policy1, policy2, ... policyN>] -Resources host=localhost.domain,type=Oracle Database,names=[db1,db2,db3] -Schedules PolicyName=name-of-the-policy,ScheduleType=[HOURLY | DAILY | WEEKLY | MONTHLY],StartTime=YYYY-MM-DD hh:mm:ss,EndTime=YYYY-MM-DD hh:mm:ss,Repeat Every Hour=hh:mm,DaysInterval=number-of-days,DaysOfWeek=[SUNDAY,MONDAY,TUESDAY,WEDNESDAY,THURSDAY,FRI
```
ExcludeArchiveLogDestinationsFromBackup '/arch/logs/on/local/disk1, /arch/logs/on/local/disk2'.

- **BackupArchiveLogsAfterRecentMissingOne**

Specifications that you want to backup archive log files, which are created after the most recent missing archive log files and ignore the files created prior to it. If this option is not specified, then all archive log files except the missing archive log files are backed up.

- **RemoveCustomSnapShot**

Specifies removal of the custom naming format of the Snapshot copy.

- **CustomSnapShotFormat**

Specifies the custom naming format to be used for the Snapshot copy name. Specify the format using keywords like $ResourceGroup, $Policy, $HostName, $ScheduleType and $CustomText.

- **SecondaryLocator**

Specifies the secondary (SnapVault or SnapMirror) storage location details (destination volume) for each unique primary storage (source volume) of all resources in resource group on which you want to perform secondary verification. Specify this option more than once to provide secondary storage location details for multiple unique primary storage. Primary (source volume) and secondary (destination volume) storage location details should be specified as name-value pairs in a comma separated list. For example: -SecondaryLocator 'Primary=oracle_vs1:db1_data_vol,Secondary=oracle_vs1_mirror:db1_data_vol_mirror' -SecondaryLocator 'Primary=oracle_vs2:db1_log_vol,Secondary=oracle_vs2_mirror:db1_data_log_mirror'.

- **EnableEmail**

Indicates whether to enable email notification.

- **EmailTo**

Specifies to whom the email has to be sent.

- **EmailFrom**

Specifies from whom the email has to be sent.

- **EmailSubject**

Specifies subject for the email.

- **EmailPreference**

Specifies when emails should be sent.

Possible Values: [ALWAYS, ON_ERROR, ON_ERROR_OR_WARNING, NEVER]

**Examples**

The following example shows how to modify an existing resource group.

```
[root@rhel-linux ~]# sccli set-SmResourceGroup -ResourceGroupName resource_group_1
  -Tags 'tag3,tag4'
-Description 'Creating Resource Group' -PluginCode 'SCO'
-Resources 'host=rhel-linux.netapp.com,type=Oracle Database,names=[ORACLE_DB1, ORACLE_DB2]'
-Policies
'policy_with_schedule,offline_data_daily,hourly'
-Schedules
PolicyName=policy_with_schedule,ScheduleType=WEEKLY,StartTime='2016-08-18 13:19:59',
EndTime='2016-09-03 13:27:59',DaysOfTheWeek=[Friday,Saturday]
-Schedules PolicyName=hourly,ScheduleType=hourly,StartTime='2016-08-18 13:19:59',EndTime='2016-09-03 13:27:59',
repeat_every_hour=22:01
-Schedules
PolicyName=offline_data_daily,ScheduleType=DAILY,StartTime='2016-08-18 13:19:59',EndTime='2016-09-03 13:27:59',
DaysInterval=10
```
BackupPolicyName='policy_with_schedule', BackupScheduleType='WEEKLY', DeferredBackupCount='1',
VerificationType='VERIFY_SCHEDULED', VerifyOnSecondary='true', ScheduleType='WEEKLY', DaysOfTheWeek=[Friday, Saturday],

ExcludeArchiveLogDestinationsFromBackup '/mnt/local_logs_1,/mnt/local_logs_2'

INFO: The command 'Set-SmResourceGroup' executed successfully.

See Also
Set-SmRunAs - Modifies an existing Run As account with specified credentials.

Description

Modifies an existing Run As account with specified credentials. You can use a Run As account to perform application-specific operations within SnapCenter.

Usage

sccli Set-SmRunAs -Name <Run As name> -AuthMode <WINDOWS | LINUX | ORACLE_DATABASE | ORACLE_ASM | ORACLE_RMAN_CATALOG> [-Username <username>]

Parameters

- **Name**
  Specifies the name of the Run As account to modify.

- **AuthMode**
  Specifies the authentication mode.
  Possible Values: [WINDOWS, LINUX, ORACLE_DATABASE, ORACLE_ASM, ORACLE_RMAN_CATALOG]

- **Username**
  Specifies the user name.

Examples

The following example displays how to modify an existing Run As account with the specified credentials.

```bash
[root@rhel-linux ~]# sccli Set-SmRunAs -Name snap-server -AuthMode WINDOWS
Enter the RunAs account user name: NetApp\SnapCenterAdmin
Enter the RunAs account password:
INFO: The command 'Set-SmRunAs' executed successfully.
```

```bash
[root@rhel-linux ~]# sccli Set-SmRunAs -Name cdb_credential -AuthMode ORACLE_DATABASE
Enter the RunAs account user name: c##dba
Enter the RunAs account password:
```
INFO: The command 'Set-SmRunAs' executed successfully.

See Also
Set-SmStorageConnection - Sets your Storage Virtual Machine (SVM) connection.

Description

Modifies your existing Storage Virtual Machine (SVM) connections.

Usage

sccli Set-SmStorageConnection -SVM <SVM name or IP> -Protocol <HTTP | HTTPS> [-Port <port>] [-PreferredIP <preferred Ip address>] [-Timeout <timeout>] [-Username <SVM username>] [-EnableAsupOnFailure] [-EnableSysLog]

Parameters

-SVM

Specifies name or IP address of the Storage Virtual Machine.

-Protocol

Specifies the communication protocol you want to use to connect to the SVM. Possible Values: [HTTP, HTTPS]

-Port

Specifies the port for the SVM connection.

-PreferredIP

Specifies the preferred IP address for the SVM management or data LIF IP address.

-Timeout

Specifies the SVM connection timeout in seconds. Default: 60 seconds

-Username

Specifies the user name for Storage Virtual Machine.

-EnableAsupOnFailure

Indicates whether to enable Auto Support in case of any failure.

-EnableSysLog
Indicates whether to enable system log feature.

**Examples**

The following example shows how to modify an existing SVM connection.

```
[root@rhel-linux ~]# sccli Set-SmStorageConnection -SVM 'my-vsim2.eng.btc.netapp.in' -Protocol HTTPS
Enter the SVM user name: vsuser
Enter the SVM password: vsuser
INFO: Using '443' as default port.
INFO: The command 'Set-SmStorageConnection' executed successfully.
```

**See Also**
Set-SvmPreferredDataPath - Modifies the SVM preferred data path.

Description

Modifies the SVM preferred data path entry in storage preference configuration file.

Usage

sccli Set-SvmPreferredDataPath -SVM <SVM Name> -DataPath <IP address or FQDN>

Parameters

-SVM

Specifies the name of the Storage Virtual Machine for which you want to modify preferred data path.

-DataPath

Specifies the preferred data path for the SVM. The data path can be IP address or FQDN.

Examples

The following example displays how to remove the SVM preferred data path.

```
[root@rhel-linux ~]# sccli Set-SvmPreferredDataPath -SVM 'tonic' -DataPath 10.228.9.121
INFO: SVM 'tonic' is configured with '10.228.9.123' preferred data path.
Are you sure you want to overwrite the existing SVM preferred data path?
Enter either [Y] Yes or [N] No (default is 'N'): Y
INFO: Preferred data path entry for SVM 'tonic' modified successfully.
INFO: The command 'Set-SvmPreferredDataPath' executed successfully.
```

See Also
Uncatalog-SmBackupWithOracleRMAN - Uncatalogs the Oracle Database backup(s) in SnapCenter with Oracle Recovery Manager (RMAN).

Description

Uncatalogs the Oracle Database backup(s) in SnapCenter with Oracle Recovery Manager (RMAN). Specify either backup names or ids to be uncataloged.

Usage

sccli Uncatalog-SmBackupWithOracleRMAN [-BackupIds <backupId1, backupId2, backupId3 ...>] - BackupNames <backupName1, backupName2, backupName3 ...>] [-WaitForCompletion]

Parameters

- **BackupIds**
  Specifies the id of backup that need to be uncataloged. Multiple backup ids can be specified in a comma separated list.

- **BackupNames**
  Specifies the name of the backup that need to be uncataloged. Multiple backup names can be specified in a comma separated list.

- **WaitForCompletion**
  Indicates whether to wait till the uncatalog job is completed.

Examples

The following example displays how to remove a backup.

```
[root@rhel-linux ~]# sccli Uncatalog-SmBackupWithOracleRMAN - BackupNames 'stddb-ds_rhel-linux_11-24-2015_00.55.10.2377_0'
Are you sure you want to uncatalog the specified backup(s) in SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): y
INFO: Job 'Uncataloging Backup(s) stddb-ds_rhel-linux_11-24-2015_00.55.10.2377_0' QUEUED with jobId '42'
INFO: The command 'Uncatalog-SmBackupWithOracleRMAN' executed successfully.
```
[root@rhel-linux ~]# sccli Uncatalog-SmBackupWithOracleRMAN - BackupIds '31,35'
Are you sure you want to uncatalog the specified backup(s) in SnapCenter?
Enter either [Y] Yes or [N] No (default is 'N'): y

INFO: Job 'Uncataloging Backup(s) stdb-ds_rhel-linux_11-24-2015_00.55.10.2377_0,stddb-ds_rhel-linux_24-2015_00.55.10.2377_1' QUEUED with jobId '42'
INFO: The command 'Uncatalog-SmBackupWithOracleRMAN' executed successfully.
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