



# **Back up Exchange resources using PowerShell cmdlets**

SnapCenter Software

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# Back up Exchange resources using PowerShell cmdlets

Backing up an Exchange Server database includes establishing a connection with the SnapCenter Server, discovering the Exchange Server database, adding a policy, creating a backup resource group, backing up, and viewing the backup status.

## What you will need

- You must have prepared the PowerShell environment to execute the PowerShell cmdlets.
- You must have added the storage system connection and created a credential.
- You must have added hosts and discovered resources.



Plug-in for Exchange does not support clone operations; therefore, the CloneType parameter for the Add-SmPolicy cmdlet is not supported for Plug-in for Exchange

## Steps

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

```
Open-smconnection -SMSbaseurl https:\\snapctr.demo.netapp.com:8146/
```

The username and password prompt is displayed.

2. Create a backup policy by using the Add-SmPolicy cmdlet.

This example creates a new backup policy with a full backup and log backup Exchange backup type:

```
C:\PS> Add-SmPolicy -PolicyName SCE_w2k12_Full_Log_bkp_Policy  
-PolicyType Backup -PluginPolicytype SCE -SceBackupType  
FullBackupAndLogBackup -BackupActiveCopies
```

This example creates a new backup policy with an hourly full backup and log backup Exchange backup type:

```
C:\PS> Add-SmPolicy -PolicyName SCE_w2k12_Hourly_Full_Log_bkp_Policy  
-PolicyType Backup -PluginPolicytype SCE -SceBackupType  
FullBackupAndLogBackup -BackupActiveCopies -ScheduleType Hourly  
-RetentionSettings  
@{'BackupType'='DATA'; 'ScheduleType'='Hourly'; 'RetentionCount'='10'}
```

This example creates a new backup policy to back up only Exchange logs:

```
Add-SmPolicy -PolicyName SCE_w2k12_Log_bkp_Policy -PolicyType Backup  
-PluginPolicytype SCE -SceBackupType LogBackup -BackupActiveCopies
```

3. Discover host resources by using the Get-SmResources cmdlet.

This example discovers the resources for the Microsoft Exchange Server plug-in on the specified host:

```
C:\PS> Get-SmResources -HostName vise-f6.sddev.mycompany.com -PluginCode  
SCE
```

4. Add a new resource group to SnapCenter by using the Add-SmResourceGroup cmdlet.

This example creates a new Exchange Server database backup resource group with the specified policy and resources:

```
C:\PS> Add-SmResourceGroup -ResourceGroupName SCE_w2k12_bkp_RG  
-Description 'Backup ResourceGroup with Full and Log backup policy'  
-PluginCode SCE -Policies  
SCE_w2k12_Full_bkp_Policy,SCE_w2k12_Full_Log_bkp_Policy,SCE_w2k12_Log_bk  
p_Policy -Resources @{'Host'='sce-w2k12-exch';'Type'='Exchange  
Database';'Names'='sce-w2k12-exch.sceqa.com\sce-w2k12-exch_DB_1,sce-  
w2k12-exch.sceqa.com\sce-w2k12-exch_DB_2'}
```

This example creates a new Exchange Database Availability Group (DAG) backup resource group with the specified policy and resources:

```
Add-SmResourceGroup -ResourceGroupName SCE_w2k12_bkp_RG -Description  
'Backup ResourceGroup with Full and Log backup policy' -PluginCode SCE  
-Policies  
SCE_w2k12_Full_bkp_Policy,SCE_w2k12_Full_Log_bkp_Policy,SCE_w2k12_Log_bk  
p_Policy -Resources @{"Host"="DAGSCE0102";"Type"="Database Availability  
Group";"Names"="DAGSCE0102"}
```

5. Initiate a new backup job by using the New-SmBackup cmdlet.

```
C:\PS> New-SmBackup -ResourceGroupName SCE_w2k12_bkp_RG -Policy  
SCE_w2k12_Full_Log_bkp_Policy
```

This example creates a new backup to secondary storage:

```
New-SMBackup -DatasetName ResourceGroup1 -Policy  
Secondary_Backup_Policy4
```

6. View the status of the backup job by using the Get-SmBackupReport cmdlet.

This example displays a job summary report of all jobs that were run on the specified date:

```
C:\PS> Get-SmJobSummaryReport -Date ?1/27/2018?
```

This example displays a job summary report for a specific job ID:

```
C:\PS> Get-SmJobSummaryReport -JobId 168
```

The information regarding the parameters that can be used with the cmdlet and their descriptions can be obtained by running *Get-Help command\_name*. Alternatively, see [SnapCenter Software Cmdlet Reference Guide](#).

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