



# **Back up resources using PowerShell cmdlets**

## **SnapCenter Software**

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June 14, 2021

This PDF was generated from [https://docs.netapp.com/us-en/snapcenter/protect-scc/task\\_back\\_up\\_resources\\_using\\_powershell\\_cmdlets.html](https://docs.netapp.com/us-en/snapcenter/protect-scc/task_back_up_resources_using_powershell_cmdlets.html) on June 18, 2021. Always check docs.netapp.com for the latest.

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# Back up resources using PowerShell cmdlets

Backing up a resource includes establishing a connection with the SnapCenter Server, adding resources, adding a policy, creating a backup resource group, and backing up.

## 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.

## About this task

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, you can also refer to the [SnapCenter Software Cmdlet Reference Guide](#).

## 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. Add resources by using the Add-SmResources cmdlet.

This example adds resources:

```
Add-SmResource -HostName '10.232.206.248' -PluginCode 'DB2'  
-ResourceName NONREC1 -ResourceType Database -StorageFootPrint ( @  
{ "VolumeName"="DB2_NONREC1DB"; "LunName"="DB2_NONREC1DB"; "Vserver"="vserv  
er_scauto_secondary"}) -Instance db2inst1
```

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

This example creates a new backup policy:

```
Add-SMPolicy -PolicyName 'db2VolumePolicy' -PolicyType 'Backup'  
-PluginPolicyType DB2 -description 'VolumePolicy'
```

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

This example creates a new resource group with the specified policy and resources:

```
Add-SmResourceGroup -ResourceGroupName
'Verify_ManualBackup_DatabaseLevel_MultipleVolume_unix' -Resources @(@
{"Host"="10.232.206.248";"Uid"="db2inst2\NONREC"},@{"Host"="10.232.206.2
48";"Uid"="db2inst1\NONREC"}) -Policies db2ManualPolicy
```

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

```
New-SMBackup -DatasetName
Verify_ManualBackup_DatabaseLevel_MultipleVolume_unix -Policy
db2ManualPolicy
```

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:

```
PS C:\> Get-SmBackupReport -JobId 351
Output:
BackedUpObjects           : {DB1}
FailedObjects             : {}
IsScheduled               : False
HasMetadata               : False
SmBackupId                : 269
SmJobId                   : 2361
StartDateTime             : 10/4/2016 11:20:45 PM
EndDateTime               : 10/4/2016 11:21:32 PM
Duration                  : 00:00:46.2536470
CreatedDateTime           : 10/4/2016 11:21:09 PM
Status                    : Completed
ProtectionGroupName       : Verify_ASUP_Message_windows
SmProtectionGroupId       : 211
PolicyName                : test2
SmPolicyId                : 20
BackupName                : Verify_ASUP_Message_windows_scc54_10-04-
2016_23.20.46.2758
VerificationStatus        : NotVerified
VerificationStatuses      :
SmJobError                :
BackupType                : SCC_BACKUP
CatalogingStatus          : NotApplicable
CatalogingStatuses        :
ReportDataCreatedDateTime :
```

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