



Back up resources using PowerShell cmdlets

SnapCenter Software

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You can use the PowerShell cmdlets to backup SQL Server databases or Windows file systems. This would include backing up a SQL Server database or Windows file system includes establishing a connection with the SnapCenter Server, discovering the SQL Server database instances or Windows file systems, adding a policy, creating a backup resource group, backing up, and verifying the backup.

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.

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 SQL backup type of FullBackup:

```
PS C:\> Add-SmPolicy -PolicyName TESTPolicy  
-PluginPolicyType SCSQL -PolicyType Backup  
-SqlBackupType FullBackup -Verbose
```

This example creates a new backup policy with a Windows file system backup type of CrashConsistent:

```
PS C:\> Add-SmPolicy -PolicyName FileSystemBackupPolicy  
-PluginPolicyType SCW -PolicyType Backup  
-ScwBackupType CrashConsistent -Verbose
```

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

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

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

This example discovers the resources for Windows file systems on the specified host:

```
C:\PS>PS C:\> Get-SmResources -HostName vise2-f6.sddev.mycompany.com  
-PluginCode SCW
```

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

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

```
PS C:\> Add-SmResourceGroup -ResourceGroupName AccountingResource  
-Resources @{"Host"="visef6.org.com";  
"Type"="SQL Database";"Names"="vise-f6\PayrollDatabase"}  
-Policies "BackupPolicy"
```

This example creates a new Windows file system backup resource group with the specified policy and resources:

```
PS C:\> Add-SmResourceGroup -ResourceGroupName EngineeringResource  
-PluginCode SCW -Resources @{"Host"="WIN-VOK20IKID5I";  
"Type"="Windows Filesystem";"Names"="E:\"}  
-Policies "EngineeringBackupPolicy"
```

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

```
PS C:> New-SmBackup -ResourceGroupName PayrollDataset -Policy  
FinancePolicy
```

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-SmJobSummaryReport -Date ?1/27/2016?
```

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](#).

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