



# **Clone backups using PowerShell cmdlets**

## **SnapCenter Software**

Nirupama Sriram, Archana  
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# Clone backups using PowerShell cmdlets

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

You must have prepared the PowerShell environment to execute the PowerShell cmdlets.

## 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
```

2. List the backups that can be cloned by using the `Get-SmBackup` or `Get-SmResourceGroup` cmdlet.

This example displays information about all available backups:

```
C:\PS>PS C:\> Get-SmBackup
```

BackupId	BackupName	BackupTime	BackupType
-----	-----	-----	-----
1	Payroll Dataset_vise-f6_08...	8/4/2015 11:02:32 AM	Full Backup
2	Payroll Dataset_vise-f6_08...	8/4/2015 11:23:17 AM	

This example displays information about a specified resource group, its resources, and associated policies:

```
PS C:\> Get-SmResourceGroup -ListResources -ListPolicies
```

```
Description :
CreationTime : 8/4/2015 3:44:05 PM
ModificationTime : 8/4/2015 3:44:05 PM
EnableEmail : False
EmailSMTPServer :
EmailFrom :
EmailTo :
EmailSubject :
EnableSysLog : False
ProtectionGroupType : Backup
EnableAsupOnFailure : False
Policies : {FinancePolicy}
HostResourceMapping : {}
Configuration : SMCoreContracts.SmCloneConfiguration
```

LastBackupStatus :  
VerificationServer :  
EmailBody :  
EmailNotificationPreference : Never  
VerificationServerInfo : SMCoreContracts.SmVerificationServerInfo  
SchedulerSQLInstance :  
CustomText :  
CustomSnapshotFormat :  
SearchResources : False  
ByPassCredential : False  
IsCustomSnapshot :  
MaintenanceStatus : Production  
PluginProtectionGroupTypes : {SMSQL}  
Name : Payrolldataset  
Type : Group  
Id : 1  
Host :  
UserName :  
Passphrase :  
Deleted : False  
Auth : SMCoreContracts.SmAuth  
IsClone : False  
CloneLevel : 0  
ApplySnapvaultUpdate : False  
ApplyRetention : False  
RetentionCount : 0  
RetentionDays : 0  
ApplySnapMirrorUpdate : False  
SnapVaultLabel :  
MirrorVaultUpdateRetryCount : 7  
AppPolicies : {}  
Description : FinancePolicy  
PreScriptPath :  
PreScriptArguments :  
PostScriptPath :  
PostScriptArguments :  
ScriptTimeout : 60000  
DateModified : 8/4/2015 3:43:30 PM  
DateCreated : 8/4/2015 3:43:30 PM  
Schedule : SMCoreContracts.SmSchedule  
PolicyType : Backup  
PluginPolicyType : SMSQL  
Name : FinancePolicy  
Type :  
Id : 1  
Host :

```
UserName :
Passphrase :
Deleted : False
Auth : SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
clab-a13-13.sddev.lab.netapp.com
DatabaseGUID :
SQLInstance : clab-a13-13
DbStatus : AutoClosed
DbAccess : eUndefined
IsSystemDb : False
IsSimpleRecoveryMode : False
IsSelectable : True
SqlDbFileGroups : {}
SqlDbLogFiles : {}
AppFileStorageGroups : {}
LogDirectory :
AgName :
Version :
VolumeGroupIndex : -1
IsSecondary : False
Name : TEST
Type : SQL Database
Id : clab-a13-13\TEST
Host : clab-a13-13.sddev.mycompany.com
UserName :
Passphrase :
Deleted : False
Auth : SMCoreContracts.SmAuth
IsClone : False
```

3. Initiate a clone operation from an existing backup by using the New-SmClone cmdlet.

This example creates a clone from a specified backup with all logs:

```

PS C:\> New-SmClone
-BackupName payroll_dataset_vise-f3_08-05-2015_15.28.28.9774
-Resources @{"Host"="vise-f3.sddev.mycompany.com";
"Type"="SQL Database";"Names"="vise-f3\SQLExpress\payroll"}
-CloneToInstance vise-f3\sqlexpress -AutoAssignMountPoint
-Suffix _clonefrombackup
-LogRestoreType All -Policy clonefromprimary_ondemand

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

```

This example creates a clone to a specified Microsoft SQL Server instance:

```

PS C:\> New-SmClone
-BackupName "BackupDS1_NY-VM-SC-SQL_12-08-2015_09.00.24.8367"
-Resources @{"host"="ny-vm-sc-sql";"Type"="SQL Database";
"Names"="ny-vm-sc-sql\AdventureWorks2012_data"}
-AppPluginCode SMSQL -CloneToInstance "ny-vm-sc-sql"
-Suffix _CLPOSH -AutoAssignMountPoint
-AssignMountPointUnderPath "C:\SCMounts"

```

4. View the status of the clone job by using the Get-SmCloneReport cmdlet.

This example displays a clone report for the specified job ID:

```
PS C:\> Get-SmCloneReport -JobId 186

SmCloneId : 1
SmJobId : 186
StartDateTime : 8/3/2015 2:43:02 PM
EndDateTime : 8/3/2015 2:44:08 PM
Duration : 00:01:06.6760000
Status : Completed
ProtectionGroupName : Draper
SmProtectionGroupId : 4
PolicyName : OnDemand_Clone
SmPolicyId : 4
BackupPolicyName : OnDemand_Full_Log
SmBackupPolicyId : 1
CloneHostName : SCSPR0054212005.mycompany.com
CloneHostId : 4
CloneName : Draper__clone__08-03-2015_14.43.53
SourceResources : {Don, Betty, Bobby, Sally}
ClonedResources : {Don_DRAPER, Betty_DRAPER, Bobby_DRAPER,
                  Sally_DRAPER}
```

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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