Clone backups using PowerShell cmdlets

SnapCenter Software

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Clone backups using PowerShell cmdlets

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

What you will need

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

For information about PowerShell cmdlets, use the SnapCenter cmdlet help or see 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/
```

2. List the backups that can be cloned 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:

```
PS C:\> Get-SmResourceGroup

   Description                 :
    CreationTime                : 10/10/2016 4:45:53 PM
    ModificationTime            : 10/10/2016 4:45:53 PM
    EnableEmail                 : False
    EmailSMTPServer             :
    EmailFrom                   :
    EmailTo                     :
    EmailSubject                :
```

```
    EnableSysLog                : False
    ProtectionGroupType         : Backup
    EnableAsupOnFailure         : False
    Policies                    : {}
    HostResourceMaping          : {}
    Configuration               : SMCoreContracts.SmCloneConfiguration
    LastBackupStatus            : Completed
    VerificationServer          :
    EmailBody                   :
    EmailNotificationPreference : Never
    VerificationServerInfo      :
    SchedulerSQLInstance        :
    CustomText                  :
    CustomSnapshotFormat        :
    SearchResources             : False
    ByPassCredential            : False
    IsCustomSnapshot            :
    MaintenanceStatus           : Production
    PluginProtectionGroupTypes  : {SMSQL}
    Tag                         :
    IsInternal                  : False
    EnableEmailAttachment       : False
    VerificationSettings        : {}
    Name                        : NFS_DB
    Type                        : Group
    Id                          : 2
    Host                        :
    UserName                    :
    Passphrase                  :
    Deleted                     : False
    Auth                        : SMCoreContracts.SmAuth
    IsClone                     : False
    CloneLevel                  : 0
    Hosts                       :
    StorageName                 :
    ResourceGroupNames          :
    PolicyNames                 :

    Description                 :
    CreationTime                : 10/10/2016 4:51:36 PM
    ModificationTime            : 10/10/2016 5:27:57 PM
    EnableEmail                 : False
    EmailSMTPServer             :
    EmailFrom                   :
    EmailTo                     :
    EmailSubject                :
```

```
    EnableSysLog                : False
    ProtectionGroupType         : Backup
    EnableAsupOnFailure         : False
    Policies                    : {}
    HostResourceMaping          : {}
    Configuration               : SMCoreContracts.SmCloneConfiguration
    LastBackupStatus            : Failed
    VerificationServer          :
    EmailBody                   :
    EmailNotificationPreference : Never
    VerificationServerInfo      :
    SchedulerSQLInstance        :
    CustomText                  :
    CustomSnapshotFormat        :
    SearchResources             : False
    ByPassRunAs                 : False
    IsCustomSnapshot            :
    MaintenanceStatus           : Production
    PluginProtectionGroupTypes  : {SMSQL}
    Tag                         :
    IsInternal                  : False
    EnableEmailAttachment       : False
    VerificationSettings        : {}
    Name                        : Test
    Type                        : Group
    Id                          : 3
    Host                        :
    UserName                    :
    Passphrase                  :
    Deleted                     : False
    Auth                        : SMCoreContracts.SmAuth
    IsClone                     : False
    CloneLevel                  : 0
    Hosts                       :
    StorageName                 :
    ResourceGroupNames          :
    PolicyNames                 :
```

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

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

```
New-SmClone -BackupName Verify_delete_clone_on_qtree_windows_scc54_10-
04-2016_19.05.48.0886 -Resources
@{"Host"="scc54.sccore.test.com";"Uid"="QTREE1"}  -
CloneToInstance scc54.sccore.test.com -Suffix '_QtreeCloneWin9'
-AutoAssignMountPoint -AppPluginCode 'DummyPlugin' -initiatorname
'iqn.1991-
05.com.microsoft:scc54.sccore.test.com' -igroupprotocol 'mixed'
```

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}
    SmJobError          :
```

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