Back up resources using PowerShell cmdlets

SnapCenter Software

Nirupama Sriram, Archana, Soumik Das
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 on June 24, 2021. Always check docs.netapp.com for the latest.

Table of Contents

Back up resources using PowerShell cmdlets 1

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 :
```

Copyright Information

Copyright © 2021 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system- without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark Information

NETAPP, the NETAPP logo, and the marks listed at http://www.netapp.com/TM are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.