



Back up SAP HANA databases

SnapCenter Software

Nirupama Sriram, Archana, Soumik Das
June 14, 2021

This PDF was generated from https://docs.netapp.com/us-en/snapcenter/protect-hana/task_back_up_sap_hana_databases.html on June 18, 2021. Always check docs.netapp.com for the latest.

Table of Contents

Back up SAP HANA databases 1

Back up SAP HANA databases

If a resource is not yet part of any resource group, you can back up the resource from the Resources page.


What you will need

- You must have created a backup policy.
- If you want to back up a resource that has a SnapMirror relationship with a secondary storage, the ONTAP role assigned to the storage user should include the “snapmirror all” privilege. However, if you are using the “vsadmin” role, then the “snapmirror all” privilege is not required.
- For Snapshot copy based backup operation, ensure that all the tenant databases are valid and active.
- If you want to create a file-based backup when one or more tenant databases are down, set the `ALLOW_FILE_BASED_BACKUP_IFINACTIVE_TENANTS_PRESENT` parameter to **YES** in the HANA properties file using `Set-SmConfigSettings` cmdlet.

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. In the left navigation pane, click **Resources**, and then select the appropriate plug-in from the list.
2. On the **Resource** page, filter resources from the **View** drop-down list based on resource type.

Click , and then select the host name and the resource type to filter the resources. You can then click  to close the filter pane.

3. Click the resource that you want to back up.
4. On the **Resource** page, select **Use custom name format for Snapshot copy**, and then enter a custom name format that you want to use for the Snapshot copy name.

For example, *customtext_policy_hostname* or *resource_hostname*. By default, a timestamp is appended to the Snapshot copy name.

5. On the **Application Settings** page, do the following:
 - Click the **Backups** arrow to set additional backup options:

Enable consistency group backup, if needed, and perform the following tasks:

For this field...	Do this...
Afford time to wait for "Consistency Group Snapshot" operation to complete	Select Urgent , or Medium , or Relaxed to specify the wait time for Snapshot copy operation to finish. Urgent = 5 seconds, Medium = 7 seconds, and Relaxed = 20 seconds.
Disable WAFL Sync	Select this to avoid forcing a WAFL consistency point.

- Click the **Scripts** arrow to run pre and post commands for quiesce, Snapshot copy, and unquiesce operations.

You can also run pre commands before exiting the backup operation. Prescripts and postscripts are run in the SnapCenter Server.

- Click the **Custom Configurations** arrow, and then enter the custom value pairs required for all jobs using this resource.
- Click the **Snapshot Copy Tool** arrow to select the tool to create Snapshot copies:

If you want...	Then...
SnapCenter to create a storage-level Snapshot copy	Select SnapCenter without File System Consistency .
SnapCenter to use the plug-in for Windows to put the file system into a consistent state and then create a Snapshot copy	Select SnapCenter with File System Consistency .
To enter the command to create a Snapshot copy	Select Other , and then enter the command to create a Snapshot copy.


6. On the **Policies** page, perform the following steps:
 - a. Select one or more policies from the drop-down list.



You can also create a policy by clicking  .

In the Configure schedules for selected policies section, the selected policies are listed.

- b.

Click  in the Configure Schedules column for the policy for which you want to configure a schedule.

- c. In the Add schedules for policy *policy_name* dialog box, configure the schedule, and then click **OK**.

policy_name is the name of the policy that you selected.

The configured schedules are listed in the Applied Schedules column.

7. On the **Notification** page, from the **Email preference** drop-down list, select the scenarios in which you want to send the emails.

You must also specify the sender and receiver email addresses, and the subject of the email. SMTP must also be configured in **Settings > Global Settings**.

8. Review the summary, and then click **Finish**.

The resources topology page is displayed.

9. Click **Back up Now**.

10. On the **Backup** page, perform the following steps:

- a. If you applied multiple policies to the resource, from the **Policy** drop-down list, select the policy that you want to use for backup.

If the policy selected for the on-demand backup is associated with a backup schedule, the on-demand backups will be retained based on the retention settings specified for the schedule type.

- b. Click **Backup**.

11. Monitor the operation progress by clicking **Monitor > Jobs**.

- In MetroCluster configurations, SnapCenter might not be able to detect a protection relationship after a failover.

For information, see: [Unable to detect SnapMirror or SnapVault relationship after MetroCluster failover](#)

- If you are backing up application data on VMDKs and the Java heap size for the SnapCenter Plug-in for VMware vSphere is not large enough, the backup might fail.

To increase the Java heap size, locate the script file `/opt/netapp/init_scripts/scvservice`. In that script, the `do_start method` command starts the SnapCenter VMware plug-in service. Update that command to the following: `Java -jar -Xmx8192M -Xms4096M`

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.