

Veritas Backup Reporter 6.5 Clustering Guide



Veritas Backup Reporter Clustering Guide

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Documentation version 6.5

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Clustering Veritas Backup Reporter on Solaris

This document includes the following topics:

- [Planning for clustered Veritas Backup Reporter on Solaris](#)
- [Installing Veritas Backup Reporter on Solaris nodes](#)
- [Upgrading to Veritas Backup Reporter 6.5 in clustered mode](#)
- [Uninstalling Veritas Backup Reporter from Solaris nodes](#)
- [Removing a node from a clustered environment](#)
- [Known issues](#)

Planning for clustered Veritas Backup Reporter on Solaris

With clusters in a network, data on the participating hosts can be highly available. A cluster comprises two or more hosts, called nodes that are linked in a network. Each node can access the shared disks with the help of cluster software. The shared disk contains all cluster resources.

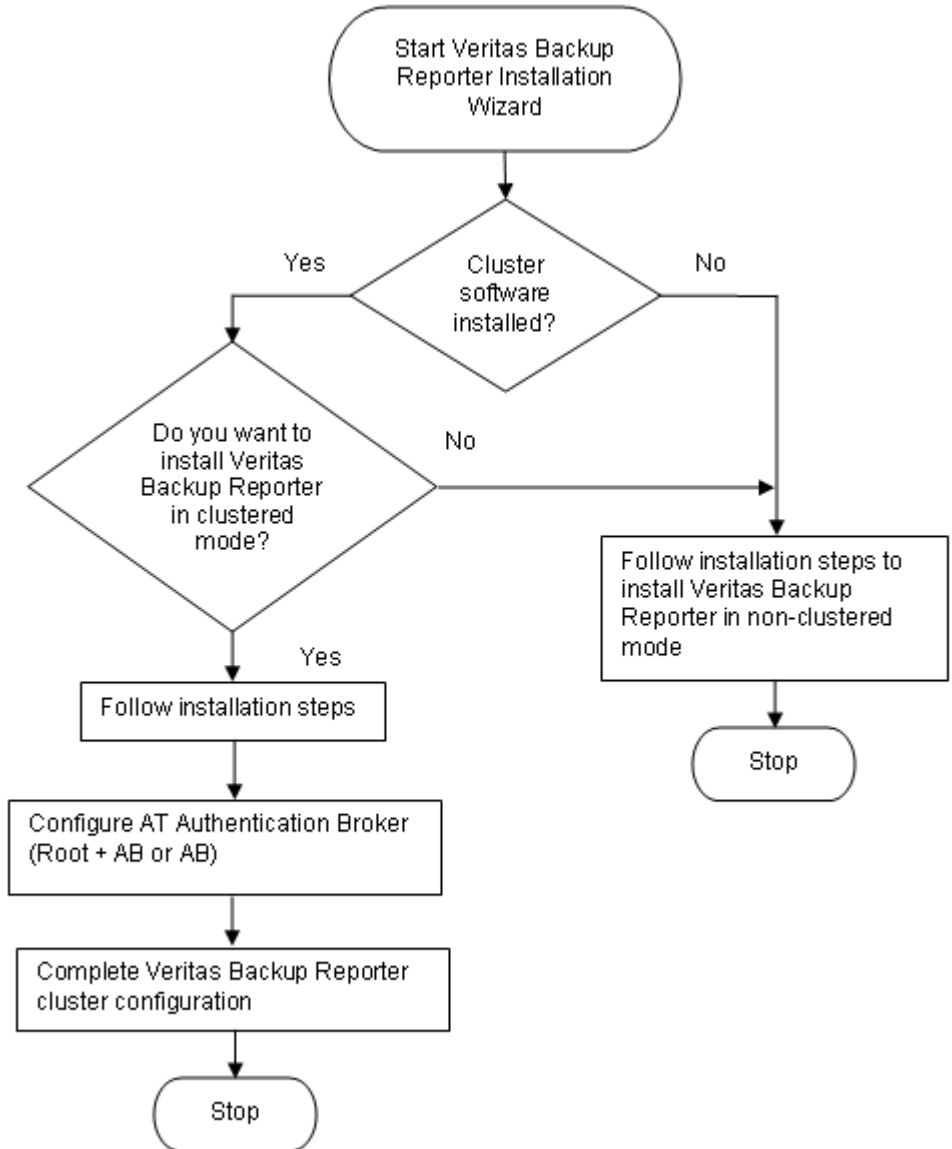
In 6.5 version, Veritas Backup Reporter can be clustered if you have Veritas Cluster Server (VCS) installed. You can cluster Veritas Backup Reporter Management Server and Agent.

After installing Veritas Backup Reporter in clustered mode, the database is available on the shared disk, which a failover node can access.

Clustering the management server makes the Veritas Backup Reporter user interface highly available.

Clustering the agent makes data collection highly available.

Veritas Backup Reporter installation flow is as follows, in case of cluster mode:



Before you install and configure Veritas Backup Reporter 6.5 in a clustered environment, there are several prerequisites that must be in place.

Prerequisites

To install and configure Veritas Backup Reporter in a clustered mode, you must meet the following prerequisites:

- All participating nodes have Veritas Cluster Server (VCS) installed in non-secure mode.
- All nodes must have adequate resources to run Veritas Backup Reporter. See the *Veritas Backup Reporter Installation Guide* for resource requirements.
- A shared volume or location is available to store the Veritas Backup Reporter database and security information. Locations for the Veritas Backup Reporter database and security information are stored in different paths.
- Each node requires a separate and identical install of Veritas Backup Reporter, in terms of Date and Time. All options selected during install time should be consistent node-to-node unless otherwise specified.
- All nodes must be able to mount the shared disk. You can create disk groups and volumes using VxSF.
- If the mount point is NFS (Network File System), you must have the Read and Write permissions on the mounted file system. This ensures that you have permissions to create a file in the mounted file system.
- You should install AT (Symantec Product Authentication Service) Authentication Broker on a remote or a Veritas Backup Reporter host. All cluster nodes must use the same Authentication Broker. See [“Configuring AT Authentication Broker”](#) on page 15.
- Web settings must separately be made on all nodes.
- VxAM settings must separately be made on all nodes.

Configuring AT Authentication Broker

Veritas Backup Reporter host requires AT Authentication Broker running before it can be clustered. Once you have created principal user on the Authentication Broker host, you can enter the same Authentication Broker details on the Authentication Settings screen while installing Veritas Backup Reporter.

For details, refer to *Veritas Backup Reporter Installation Guide*.

To configure AT Authentication Broker

- 1 Copy `vssatsetup` file to the AT host and execute it.
- 2 Create a principal user on AB host using the following command:

```
<VxAT_INSTALL_DIR>/bin/vssat addprpl --prplname <principal name>  
--password <principal name password> --pdrtype ab --domain  
cc_users@ <VxAT Root Host name> --prpltype service  
--is_broker_admin --is_domain_admin
```

Limitations

The limitations of you may face during clustering Veritas Backup Reporter are as follows:

- Only Veritas Backup Reporter Management Server and Agent can be clustered. Java View Builder and help search application (RUbiCon) cannot be clustered.
- Veritas Backup Reporter high availability (HA) cannot co-exist with any other Symantec product running in secure mode using the Symantec Product Authentication Service.

Installing Veritas Backup Reporter on Solaris nodes

This section describes how to install and configure Veritas Backup Reporter on Solaris, in a clustered mode.

To install and configure Veritas Backup Reporter for clustering and high availability (HA), you must install Veritas Backup Reporter.

To configure

You must have the following to configure Veritas Backup Reporter for cluster:

- Network device, virtual IP and virtual name registered in DNS, netmask
- Any of the following:

Logical Volume Manager	Disk group name, volume name, file system type, mount point, and block device
------------------------	---

Physical disk	Mount point, block device, and file system type
---------------	---

Use the Veritas Backup Reporter Install Script, which resides in the root directory in the product CD, to install Veritas Backup Reporter on a Solaris host.

The install comprises the following phases:

- Selecting components to install

- Configuring components in the install queue
- Installing the components

To install Veritas Backup Reporter components on Solaris

- 1 Open a UNIX console and log in as `root` on the target host.
 - 2 Mount the appropriate Veritas Backup Reporter 6.5 product CD for the components you are installing.
 - 3 Type the following command and press **Enter**:
- `./installvbr`
- 4 If the installer detects a cluster software, it gives you an option to install Veritas Backup Reporter in cluster mode. Select the option depending on the following scenarios:

- If the current node is not the last one in a cluster setup, select the following option:

`Do you want to configure the cluster setup now? [y,n,q] (y)n`

- If the current node is the last one in a new cluster setup, select the following options:

`Do you want to configure the cluster setup now? [y,n,q] (y)y`

`Do you want to add this machine to an existing VBR cluster?`

`[y,n,q] (n)n`

`You have selected N, are you sure: [y,n,q] (n)y`

- If you want to add a new node to the existing cluster, select the following option:

`Do you want to configure the cluster setup now? [y,n,q] (y)y`

`Do you want to add this machine to an existing VBR cluster?`

`[y,n,q] (n)y`

`You have selected Y, are you sure: [y,n,q] (n)y`

For further procedure, refer to *Veritas Backup Reporter Installation Guide*.

To add a new node to the existing Veritas Backup Reporter cluster

- ◆ Depending on the given scenarios, run any of the following commands from the existing clustered nodes:

- If the Veritas Backup Reporter Management Server is installed on the node, run the following command:

`Run /opt/VRTSccsvs/bin/cluster/cluster_config -s vbrs -o
add_node -n <new_node_name>`

- If the Veritas Backup Reporter Management Server and Agent are installed on the node, run the following command:

```
Run /opt/VRTSccsvs/bin/cluster/cluster_config -s vbrsa -o  
add_node -n <new_node_name>
```

- If the Veritas Backup Reporter Agent is installed on the node, run the following command:

```
Run /opt/VRTSccsvs/bin/cluster/cluster_config -s vbra -o  
add_node -n <new_node_name>
```

Upgrading to Veritas Backup Reporter 6.5 in clustered mode

You can upgrade to Veritas Backup Reporter 6.5 in clustered mode from previous versions.

The following direct upgrade paths are supported:

- CommandCentral Service 4.2 FP1 with or without hot fixes
- Veritas Backup Reporter 6.0 GA
- Veritas Backup Reporter 6.0 MP1a
- Veritas Backup Reporter 6.2 GA
- Veritas Backup Reporter 6.2 MP1, MP2, and MP3 with or without EEBs

To upgrade to Veritas Backup Reporter 6.5 in clustered mode

- 1 Manually upgrade the existing database to Veritas Backup Reporter 6.5.

For more details on manual database upgrade, refer to *Veritas Backup Reporter Installation Guide*.

- 2 Create a cluster setup for Veritas Backup Reporter.
- 3 Freeze the Veritas Backup Reporter service group.

Refer to your cluster documentation for details.

- 4 Logon to the active node.
- 5 Stop database service by running the following command:

```
/opt/VRTSccsvs/bin/vbrserver stop force
```

- 6 Copy the upgraded database to the shared location by running the following command:

```
<SHARED_DISK>/vbr[s|sa]/vbrs/data/db
```

- 7 If there is any fault in the Veritas Backup Reporter service group, clear it.
For details, refer to the cluster documentation.
- 8 Start the Veritas Backup Reporter services by running the following command:

```
/opt/VRTSccsvs/bin/cluster/VBRServerStart
```
- 9 Unfreeze the Veritas Backup Reporter service group.
- 10 Delete the agents available in the Veritas Backup Reporter console on the **Settings > Global Settings > Agent Configuration** page.
- 11 Repeat the following for all agents:
 - Logon to the agent host.
 - Stop the agent process.
 - Run the following command:

```
agentauth -server <VBR_SERVER_VIRTUAL_NAME>
```
 - Start the agent process.

Uninstalling Veritas Backup Reporter from Solaris nodes

This section describes the procedure to uninstall Veritas Backup Reporter in a clustered mode, from a Solaris node.

To uninstall Veritas Backup Reporter from a Solaris node

- 1 Remove contents from shared disk.
- 2 Remove Veritas Backup Reporter service group from the VCS.
For details, refer to your cluster documentation.
- 3 Uninstall Veritas Backup Reporter from all nodes as outlined in the *Veritas Backup Reporter Installation Guide*.
- 4 Remove the Veritas Backup Reporter related entries or files from the VCS directories.
For details, refer to your cluster documentation.

Removing a node from a clustered environment

This section provides you with the procedure for removing a Solaris node from a clustered setup.

To remove a node

- 1 Make sure the node you are trying to remove is not the active node.
- 2 Remove the node from the system list of Veritas Backup Reporter service group.
Refer to your cluster documentation for details.
- 3 Uninstall Veritas Backup Reporter from the node as outlined in the *Veritas Backup Reporter Installation Guide*.
- 4 Remove the Veritas Backup Reporter related entries or files from the VCS directories.

For details, refer to your cluster documentation.

Known issues

[Table 1-1](#) on page 20. lists issues that are related to Veritas Backup Reporter clustering.

Table 1-1 Veritas Backup Reporter clustering issues

Known issue and incident #	Description
Web Server Configurations are not retained on failover in clustered VBR (1156106)	Web server settings, such as settings related to port number, SMTP server, and logging are host dependent. If you change these settings on any node, those are not reflected on other nodes in a cluster. The Web server is not clustered, therefore the failover node would not have the Web server settings same as that of the online node. The workaround is as follows: <ul style="list-style-type: none">■ Failover to a node manually.■ Go to Global Settings > Web Console Settings.■ Change the Web server settings, as you want them to be after a failover.■ Repeat the first three steps for each node in the cluster.

Table 1-1 Veritas Backup Reporter clustering issues (*continued*)

Known issue and incident #	Description
Global setting section configurations are not retained after failover (licensing, module links, server status) (1156576)	<p>Certain global settings, such as Licensing, Module Links, and Server Status (Server Log Level and Scheduler Status) are host dependent. If you change these settings on any node, those are not reflected on other nodes in a cluster. Therefore, the failover node would not have these global settings same as that of the online node. The workaround is as follows:</p> <ul style="list-style-type: none"> ■ Failover to a node manually. ■ Go to Global Settings. ■ Change the licensing, module links, and server status settings, as you want them to be after a failover. ■ Repeat the first three steps for each node in the cluster.
Editing Table settings on Monitors>Policies page (Alert) are not retained on other node (1157752)	<p>Any changes in table settings of Monitors > Policies section on a node are not reflected on other nodes in a cluster. Therefore, the failover node would not have these table settings same as that of the online node.</p> <p>This is a VxAM issue. The table settings on the All Policies page are not saved in the VxAM database. Hence these settings cannot be retained on the failover node. The workaround is as follows:</p> <ul style="list-style-type: none"> ■ Failover to a node manually. ■ Go to Monitors > Policies. ■ Change the table settings, as you want them to be after a failover. ■ Repeat the first three steps for each node in the cluster.

Index

C

- clustering on Solaris
 - planning 13
- configuring AT Authentication Broker 15

S

- Solaris
 - Veritas Backup Reporter clustering 13

V

- Veritas Backup Reporter
 - clustering on Solaris 13
- Veritas Backup Reporter clustering
 - known issues 20
- Veritas Backup Reporter clustering on Solaris
 - limitations 16
 - prerequisites 15
 - removing a node 19
 - uninstalling Veritas Backup Reporter 19
 - upgrading to Veritas Backup Reporter 6.5 18
- Veritas Backup Reporter clustering on Solaris nodes
 - installing Veritas Backup Reporter
 - adding a new node 16