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Backup Exec Step By Step guide to download and install the Remote Agent for Linux and UNIX Servers (RALUS) for AIX and Solaris platforms.

Problem

This article provides instructions for downloading and installing the Backup Exec Remote Agent for Linux and Unix for AIX and Solaris platforms.

Solution

The quick links listed below can be used to navigate through the installation instructions if required.

- 1. <u>System requirements and software compatibility</u>
- 2. Download the Backup Exec Remote Agent for Linux and Unix Servers (RALUS) installation files for AIX and Solaris platforms
- 3. <u>Install Backup Exec Remote Agent for Linux and Unix Servers (RALUS) for AIX and</u> <u>Solaris platforms</u>
- 4. <u>Uninstall Backup Exec Remote Agent for Linux and Unix Servers (RALUS) for AIX and</u> <u>Solaris platforms</u>
- 5. Known limitations of RALUS for AIX and Solaris for this installable

System Requirements and software compatibility

Backup Exec 20.6 Media Server offers support for RALUS for AIX and Solaris

IBM						
Operating System	OS Version	Service Packs	OS Platform			
AIX	6.1	N/A	POWER			
AIX	7.1	N/A	POWER			
AIX	7.2	N/A	POWER			

Sun

Operating System	OS Version	Service Packs	OS Platform
Solaris	10	N/A	SPARC
Solaris	11	N/A	SPARC
Solaris	11.4	N/A	SPARC

Install RALUS for AIX and Solaris

Follow these steps to install the Remote Agent for Linux and UNIX Servers on AIX and Solaris:

Note: RALUS is an additionally purchased option and is enabled by installing the RALUS serial numbers on the Backup Exec media server.

NOTE: RALUS installed via this downloaded installable is supported with Backup Exec 20.6 release. Versions prior to Backup Exec 20.6 and lower only provides support as the Remote Agent for Linux Servers.

For Backup Exec 20.6, there is no separate download available for Linux platform, RALUS is included on the DVD, and can be found in the "**Linux**" folder present at the root of the DVD for Backup Exec.

It is also advisable to check the RALUS compatibility with AIX and Solaris host before installation.

To install the Remote Agent for Linux and UNIX Servers on the AIX or Solaris host:

1. On a AIX or Solaris host, download the installation files from this technical note page.

2. Connect to the target host using a terminal session or Log On locally with super user, root, or administrator privileges.

3. Extract the contents of the installation files that were downloaded in Step 1 using the following command Figure 1a below:

Note: Do **not** extract the RALUS installer files on a Windows system and copy the resulting files to the Linux/Unix host. Doing so will cause difficult to diagnose installation errors. It is important to copy the **.gz** file to the Linux/Unix host and extract the files there as shown below.

Note: This is a one step command to extract and untar the file.

```
tar zvxf filename.tar.gz
or
tar -zxvf filename.tar.gz
```

z = Gunzip(uncompress) it before extracting, used on file ending in .tar.gz or .tgz

x = Extract the contents of the TAR file

v = Verbose - display contents as it is tarring or extracting

f = Filename to follow

Note: If the file does not have **".gz"** extension that means its already uncompressed and one has to just extract it using **"tar xvf"** command.

Figure 1a:

bash-3.2# tar zxvf Backup Exec RALUS AIX SOLARIS-1188.2712.tar.gz

Or, in two commands as shown in Figure 1b below:

Figure 1b:

bash-3.2# gunzip Backup Exec RALUS AIX SOLARIS-1188.2712.tar.gz

bash-3.2# tar xvf Backup Exec RALUS AIX SOLARIS-1188.2712.tar

Note: This is a two step command to extract and untar the file.

gunzip filename.tar.gz

tar xvf filename.tar

4. Navigate to the folder that was extracted in Step 3 as shown in Figure 2 below:

Figure 2:

bash-3.2# ls				
RALUS64	installralus.pl	messages	rmalinst.conf	uninstallralus.pl
RALUSx86	installrams	perl	scripts	uninstallrams
VxIF	installrams.pl	pkgs	tools	uninstallrams.pl
installralus	installrmal	ralusinst.conf	uninstallralus	uninstallrmal
installralus.cmd	installrmal.pl	ramsinst.conf	uninstallralus.cmd	uninstallrmal.pl
bash-3.2#				

5. At the command prompt, type: installralus and press <Enter> in the directory that the install script is present shown in Figure 3 below:

./installralus

Figure 3:



6. The installation screen appears: (Figure 4)

Figure 4:



Type the Unix server IP address or Hostname and press **Enter** as shown in Figure above.

7. RALUS performs the initial system check as shown in Figure 5 below:

Figure 5



Press Enter to continue.

8 . RALUS will check and install the following rpms on the Unix server as shown in Figure 6 below:

Figure 6:

Veritas Backup Exec Remote Agent for Linux/Unix Servers
installralus will install the following RALUS filesets on Aix target system: hostname
VRTSralus Veritas Backup Exec for Windows Servers Remote Agent for Linux/Unix Servers
Press [Return] to continue:

Press Enter to continue.

9. Installation requirement checks completed successfully as shown in Figure 7 below.

Figure 7:



Press Enter to continue.

10. The installation utility will ask for the Media Server IP address or Hostname to display the remote agent as a selection in the media server's backup selection tree as shown in Figure 8

below.

Note: A host name can be used, however make sure that the Unix server can resolve the host name properly. Its recommended to add the Windows host entry in the **/etc/hosts** file on the Unix server.

Figure 8:

Remote Agent Media Server Configuration
To display the Remote Agent as a selection in a media server's backup selection tree, and to be able to specify a local network for use between the Remote Agent and a media server, enter the names or IP add resses of the media servers that you want the Remote Agent on 'bnrvio81p2' to communicate with.
An IP Address: XXX.XXX.XXX A Host Name: COMPUTERNAME
Enter a directory host:MediaServerHostName

11. To display the remote agent on more than one media server choose "Y" and press Enter or Simply type "N" and press Enter to continue.

Figure 9:



12. Confirm the Media Server IP address or Hostname by typing "Y" and press Enter, else press "N" and re-type the IP or Hostname as shown. (Figure 10)

Figure 10:



13. The installation utility will now ask to create "beoper" group as shown. (Figure 11)

Figure 11:

	Remote A	gent Use:	Group	Setup				
To perform backups, you must have a not using NIS server. Your system rship.	'beoper' ' hostname	user gro ' will !	p. This e scanr	s user ned to	group can be detect a NIS	created server,	only if yo group and :	u are membe
Press [Return] to continue:								

Note: beoper is a group that is used by Remote Agent for Linux and Unix Servers to authenticate the Backup Exec logon account, as the members of this group are given permissions to back up and restore the Linux server.

Press Enter to continue.

14. If the beoper group is not found, the installation utility will ask to create one. (Figure 14)

Figure 12:

Remote Agent User Group Setup
To perform backups, you must have a 'beoper' user group. This user group can be created only if you are not using NIS server. Your system ' hostname ' will be scanned to detect a NIS server, group and membe rship.
Press [Return] to continue: Checking if system uses NIS server:
The installer will now check your system for the 'begner' user group and root membership
Press [Return] to continue:
Charling for borona year group.
Checking for beoper user group.
Cuecking for 'root' user membersnip in 'peoper' user group:
Your system ' hostname ' already has a required user group and membership.
Press [Return] to continue:

Type "Y" and press Enter.

15. Installation utility shows successful installation of RALUS. (Figure 13)

Read the information and press Enter.

Figure 13:

Novitas Dashum Eves Demote Jacob for Tinuy (Univ Company	
Veritas Backup Exec Remote Agent for Ernux/Onix Servers	
Installing Veritas Backup Exec Remote Agent for Linux/Unix Servers on hostname :	
Installing VRTSralus 12.5.2213.0 on hostname	
Veritas Backup Exec Remote Agent for Linux/Unix Servers installation completed successfully.	
Press [Return] to continue:	

16. The RALUS configuration has also completed successfully as shown. (Figure 14)

Figure 14:

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Read the information and press Enter.

17. Finally, Veritas Backup Exec Remote Agent for Linux and Unix Server has completed successfully. (Figure 15)

Figure 15:



18. By default the **VRTSralus.init** service is stopped, Follow steps mentioned below Fig 16 to start the service.

/opt/VRTSralus/bin/VRTSralus.init start

19. Go to the Backup Exec media server and check the remote selections listed on the Backup tab. Expand the Unix icon: the ROOT account.

Figure 16:



RALUS configuration file.

The **ralus.cfg** file can be edited for either troubleshooting or configuration purposes as shown.

The file is located in the following location: /etc/VRTSralus/ralus.cfg

Config file details as shown in Fig. 17:

Figure 17:

Software\Symantec\Backup	Exec	For	Windows\Backup	Exec\Agent Browser\TcpIp\AdvertisementPort=6101
Software\Symantec\Backup	Exec	For	Windows\Backup	Exec\Engine\Agents\Advertise All=1
Software\Symantec\Backup	Exec	For	Windows\Backup	Exec\Engine\Agents\Advertise Now=0
Software\Symantec\Backup	Exec	For	Windows\Backup	Exec\Engine\Agents\Advertisement Purge=0
Software\Symantec\Backup	Exec	For	Windows\Backup	Exec\Engine\Agents\Advertising Disabled=0
Software\Symantec\Backup	Exec	For	Windows\Backup	Exec\Engine\Agents\Advertising Interval Minutes=240
Software\Symantec\Backup	Exec	For	Windows\Backup	Exec\Engine\Agents\Agent Directory List 1=MediaServerH
ostName				
Software\Symantec\Backup	Exec	For	Windows\Backup	Exec\Engine\Agents\Auto Discovery Enabled=1
Software\Symantec\Backup	Exec	For	Windows\Backup	Exec\Engine\Agents\Security Disabled=1
Software\Symantec\Backup	Exec	For	Windows\Backup	Exec\Engine\Logging\RANT NDMP Debug Level=0
Software\Symantec\Backup	Exec	For	Windows\Backup	Exec\Engine\RALUS\Encoder=
Software\Symantec\Backup	Exec	For	Windows\Backup	Exec\Engine\RALUS\VfmPath=/opt/VRTSralus/VRTSvxms

For more information regarding RALUS, please refer to the Related Documents section given below.

Uninstall RALUS for AIX and Solaris

1. At the command prompt, type: uninstallralus and press <Enter> in the directory that the install script is present shown in Figure 18 below:

./uninstallralus

Figure 18:



2. The uninstallation screen appears as shown in Figure 19:

Figure 19:



Type the Unix server IP address or Hostname and press **Enter** as shown in Figure above.

3. Uninstallation requirement checks completed successfully as shown in Figure 20 below.

Figure 20:



4. Uninstallation completed successfully as shown in Figure 21 below.

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Veritas Backup Exec Remote Agent for Linux/Unix Servers
Uninstalling Veritas Backup Exec Remote Agent for Linux/Unix Servers on hostname :
Uninstalling VRTSralus 12.5.2213.0 on hostname
Veritas Backup Exec Remote Agent for Linux/Unix Servers uninstall completed successfully.
Press [Return] to continue:
Killing Bills threads and processes
Dono Dallis Dallo di contra di anti processes
Removing RALOS Linkediame in ICS.d.
Removing RALOS linkedname in rd.d
Removing RALUS linkedname in rc2.d Done
Removing RALUS init script Done
The response file is saved at:
<pre>/var/tmp/vxif/uninstallralus1108002750/uninstallralus1108002750.response</pre>
The uninstallralus log is saved at:
/var/tmp/vxif/uninstallralus1108002750/uninstallralus.log
bash-3.2#

Known limitations of RALUS for AIX and Solaris installable

- 1. The Agent installed via this downloadable package does not support secure SSL communications between the Media Server and the Agent. Support for SSL will be available in a future release of RALUS for AIX and Solaris
- 2. There is a known issue on AIX 6.1 when the File folder depth exceeds 28 levels. This issue is being worked upon and will be addressed in a future release.
- 3. Testing of backup and restore of file sizes beyond 2GB has not been carried out on AIX 6.1 and AIX 7.1.
- 4. Client side deduplication is not supported with these agents. It is recommended that client side deduplication is unselected for the job when targeting a job to dedupe storage. Jobs with client side deduplication enabled will automatically fallback to server side deduplication with a message in the job log.
- 5. There is a known issue on AIX platforms when protecting remote NFS3 mount points. This issue is being worked upon and will be addressed in a future release.