

Oracle® Communications

Method of Procedure

Oracle® Communications Policy Management Configuring NetBackup for Upgrade Method of Procedure

E82603-01

January 2017

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1. OPERATIONS REQUIREMENTS ABOUT NETBACKUP DURING UPGRADE

This document describes the steps necessary for an upgrade or backout if you are using NetBackup. These procedures are for upgrade or backout paths from Oracle Communications Policy Management release 10.5, 11.5, 12.0 or 12.1.1 to release 12.1.2. This document does not apply to upgrading to Oracle Communications Policy Management release 12.2.

The installed NetBackup must be supported by both the original and upgraded releases. For Oracle Communications Policy Management release 10.5, only Netbackup release 7.0 and 7.1 are supported; for Oracle Communications Policy Management release 11.5, 12.0, 12.1.1 and 12.1.2, only Netbackup release 7.1 is supported.

This document has the following sections:

- [Preparing NetBackup for a Policy Management Upgrade](#)
- [Resetting the Push Client Password After the Policy Management Upgrade](#)
- [Preparing NetBackup for Policy Management Backout](#)

This document also has the two following sections that address specific tasks related to the upgrade operation:

- [Clearing Disk Usage Alarms after NetBackup Installation or Upgrade](#)
- [Uninstalling NetBackup 7.0 from the Policy Management System](#)

1.1 Preparing NetBackup for a Policy Management Upgrade

IMPORTANT: All the commands in this procedure are entered while being logged in as the root user

Step	Procedure	Result
1. <input type="checkbox"/>	Verify NetBackup is enabled	<p>Use the following command to verify that NetBackup is enabled:</p> <pre>/usr/opensv/netbackup/bin/bpps</pre> <p>Example output</p> <pre>root 10199 1 0 11:14 ? 00:00:00 /usr/opensv/ netbackup /bin/vnetd -standalone root 10202 1 0 11:14 ? 00:00:00 /usr/opensv/ netbackup /bin/bpcd -standalone</pre>
2. <input type="checkbox"/>	Stop NetBackup services	<p>1. Enter the following command to stop the NetBackup Services:</p> <pre>~]# service netbackup stop</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# service netbackup stop stopping the NetBackup client daemon stopping the NetBackup network daemon</pre> <p>2. Enter the following command to stop the Symantec Private Branch Exchange:</p> <pre>~]# service vxpbx_exchanged stop</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# service vxpbx_exchanged stop Stopped Symantec Private Branch Exchange</pre>

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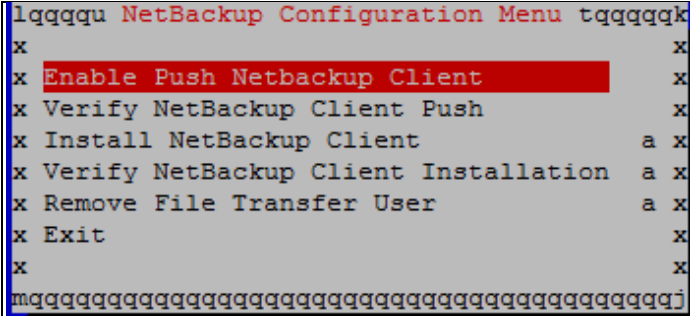
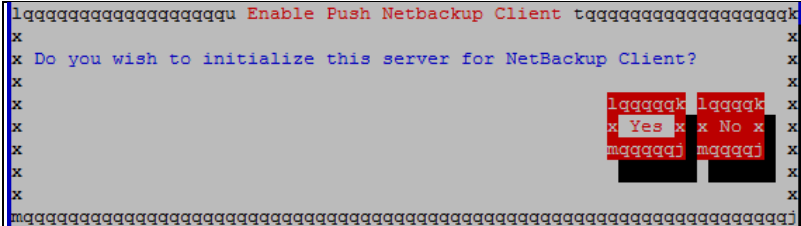
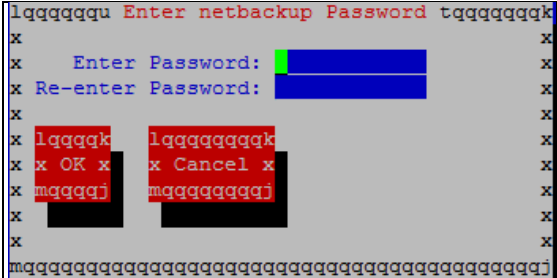
Step	Procedure	Result
3. <input type="checkbox"/>	Move the NetBackup files	<p>1. Copy the files to another location.</p> <pre>~]# cp -a /usr/opensv /var/camiant/usr_opensv</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# cp -a /usr/opensv /var/camiant/usr_opensv</pre> <p>2. Remove the original files in the directory.</p> <pre>~]# rm -rf /usr/opensv</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# rm -rf /usr/opensv</pre> <p>3. Create a symbolic link to the copied files.</p> <pre>~]# ln -s /var/camiant/usr_opensv /usr/opensv</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# ln -s /var/camiant/usr_opensv /usr/opensv</pre>
4. <input type="checkbox"/>	Restart NetBackup	<p>1. Enter the following command to start the Symantec Private Branch Exchange:</p> <pre>~]# service vxpbx_exchanged start</pre> <p>Example output</p> <pre>[root@CMP240-132 /]# service vxpbx_exchanged start Started Symantec Private Branch Exchange</pre> <p>2. Enter the following command to start the NetBackup Services:</p> <pre>~]# service netbackup start</pre> <p>Example output</p> <pre>[root@CMP240-132 /]# service netbackup start NetBackup Authentication daemon not started. NetBackup network daemon started. NetBackup client daemon started. NetBackup SAN Client Fibre Transport daemon started. NetBackup Bare Metal Restore Boot Server daemon started.</pre>
5. <input type="checkbox"/>	Verify that NetBackup is working	<p>Verify the working status of Netback.</p> <p>NOTE: The following example shows only two operations, more operations may be listed.</p> <pre>~]# /usr/opensv/netbackup/bin/bpps</pre> <pre>root 10199 1 0 11:14 ? 00:00:00 /usr/opensv/netbackup/bin/vnetd -standalone root 10202 1 0 11:14 ? 00:00:00 /usr/opensv/netbackup/bin/bpcd -standalone</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# /usr/opensv/netbackup/bin/bpps root 25641 1 0 03:27 ? 00:00:00 /usr/opensv/netbackup/bin/vnetd -standalone root 25644 1 0 03:27 ? 00:00:00 /usr/opensv/netbackup/bin/bpcd -standalone root 25663 1 0 03:27 ? 00:00:00 /usr/opensv/netbackup/bin/bmrb</pre>

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Step	Procedure	Result
6. <input type="checkbox"/>	Stop NetBackup	<p>1. Enter the following command to stop the NetBackup Services:</p> <pre data-bbox="544 293 1422 333">~]# service netbackup stop</pre> <p>Example output</p> <pre data-bbox="592 412 1326 517">[root@CMP240-133 ~]# service netbackup stop stopping the NetBackup client daemon stopping the NetBackup network daemon</pre> <p>2. Enter the following command to stop the Symantec Private Branch Exchange:</p> <pre data-bbox="544 595 1422 636">~]# service vxpbx_exchanged stop</pre> <p>Example output</p> <pre data-bbox="544 703 1374 775">[root@CMP240-133 ~]# service vxpbx_exchanged stop Stopped Symantec Private Branch Exchange</pre>
7. <input type="checkbox"/>	Perform Upgrade	<p>See the Upgrade Procedure to continue upgrading the Policy Management system.</p> <p><i>IMPORTANT: After the upgrade is complete, if a push client is required then the NetBackup user must be re-added and the password modified.</i></p>
THIS PROCEDURE HAS BEEN COMPLETED		

1.2 Resetting the Push Client Password After the Policy Management Upgrade

After the Policy Management system is completely upgraded, perform the following procedure to initialize the NetBackup client and reset the Push Client password.

Step	Procedure	Result
<p>1. <input type="checkbox"/></p>	<p>Create NetBackup user</p>	<p>1. Enable the Push Netbackup Client by selecting:</p> <p>Platcfg → NetBackup Configuration → Enable Push Netbackup Client</p>  <p>2. Click Yes to initialize the server for the client.</p>  <p>3. Enter the password for NetBackup and click OK.</p> 
<p>2. <input type="checkbox"/></p>	<p>Change the NetBackup user password on the server</p>	<p>1. Login to the NetBackup server.</p> <p>2. Access the NetBackup server</p> <pre>ssh netbackup@\${serverip_or_hostname}</pre>

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Step	Procedure	Result
3.	Change the NetBackup password	<p>1. Enter your current password.</p> <p>NOTE: You are required to change your password at this point.</p> <p>2. Enter a new password.</p> <pre>[root@R11CMP RedHat2.6]# ssh netbackup@10.148.244.11 Password: Password: You are required to change your password immediately (root enforced) Changing password for netbackup. (current) UNIX password: New password: Retype new password: This account is restricted by rssh. Allowed commands: scp sftp rsync If you believe this is in error, please contact your system administrator. Connection to 10.148.244.11 closed.</pre> <p>IMPORTANT: The new password must meet the following criteria:</p> <ol style="list-style-type: none"> 1. <i>Must not match any of the last 12 passwords.</i> 2. <i>Must be at least 6 characters in length.</i> 3. <i>Must have 3 different types of character, either lower case, upper case, or numeric characters.</i>
THIS PROCEDURE HAS BEEN COMPLETED		

1.3 Preparing NetBackup for Policy Management Backout

You must perform this procedure before backing out the Policy Management system.

Step	Procedure	Result
4. <input type="checkbox"/>	Stop NetBackup services	<p>1. Enter the following command to stop the NetBackup Services:</p> <pre>~]# service netbackup stop</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# service netbackup stop stopping the NetBackup client daemon stopping the NetBackup network daemon</pre> <p>2. Enter the following command to stop the Symantec Private Branch Exchange:</p> <pre>~]# service vxpbx_exchanged stop</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# service vxpbx_exchanged stop Stopped Symantec Private Branch Exchange</pre>
THIS PROCEDURE HAS BEEN COMPLETED		

1.4 Clearing Disk Usage Alarms after NetBackup Installation or Upgrade

BACKGROUND: NetBackup is always installed into the /usr/opensv directory as a default. Because the storage space of the partition holding the /usr directory is limited, you may receive a disk utilization alarm after NetBackup is installed in Policy Management 10.5 or 11.5 release; furthermore with Netbackup already installed, you will receive this alarm if the Policy Management software is upgraded without executing the step 1.1, 1.2 and 1.3 of this Method of Procedure. Regardless of the scenario, the following procedure helps clear this alarm.

IMPORTANT: This procedure only applies to the scenario where the disk usage alarm is received after NetBackup software is installed in the Oracle Communications Policy Management system, or an upgrade of the Oracle Communications Policy Management software with NetBackup already installed. All the commands in this procedure are entered while being logged in as the root user

Step	Procedure	Result
1. <input type="checkbox"/>	Verify NetBackup is enabled	<p>1. Use the following command to verify that NetBackup is enabled.</p> <pre>/usr/opensv/netbackup/bin/bpps</pre> <p>Example output</p> <pre>root 10199 1 0 11:14 ? 00:00:00 /usr/opensv/ netbackup /bin/vnetd -standalone root 10202 1 0 11:14 ? 00:00:00 /usr/opensv/ netbackup /bin/bpcd -standalone</pre>
2. <input type="checkbox"/>	Stop NetBackup services	<p>2. Enter the following command to stop the NetBackup services:</p> <pre>~]# service netbackup stop</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# service netbackup stop stopping the NetBackup client daemon stopping the NetBackup network daemon</pre> <p>3. Enter the following command to stop the Symantec Private Branch Exchange:</p> <pre>~]# service vxpbx_exchanged stop</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# service vxpbx_exchanged stop Stopped Symantec Private Branch Exchange</pre>

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Step	Procedure	Result
3. <input type="checkbox"/>	Move the NetBackup files	<p>1. Copy the files to another location.</p> <pre>~]# cp -a /usr/opensv /var/camiant/usr_opensv</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# cp -a /usr/opensv /var/camiant/usr_opensv</pre> <p>2. Remove the original files in the directory.</p> <pre>~]# rm -rf /usr/opensv</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# rm -rf /usr/opensv</pre> <p>3. Create a symbolic link to the copied files.</p> <pre>~]# ln -s /var/camiant/usr_opensv /usr/opensv</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# ln -s /var/camiant/usr_opensv /usr/opensv</pre>
4. <input type="checkbox"/>	Restart NetBackup	<p>1. Enter the following command to start the Symantec Private Branch Exchange:</p> <pre>~]# service vxpbx_exchanged start</pre> <p>Example output</p> <pre>[root@CMP240-132 /]# service vxpbx_exchanged start Started Symantec Private Branch Exchange</pre> <p>2. Enter the following command to start the NetBackup Services:</p> <pre>~]# service netbackup start</pre> <p>Example output</p> <pre>[root@CMP240-132 /]# service netbackup start NetBackup Authentication daemon not started. NetBackup network daemon started. NetBackup client daemon started. NetBackup SAN Client Fibre Transport daemon started. NetBackup Bare Metal Restore Boot Server daemon started.</pre>
5. <input type="checkbox"/>	Verify that NetBackup is working	<p>1. Verify the working status of Netback.</p> <p>NOTE: The following example shows only two operations, more operations may be listed.</p> <pre>~]# /usr/opensv/netbackup/bin/bpps</pre> <pre>root 10199 1 0 11:14 ? 00:00:00 /usr/opensv/netbackup/bin/vnetd -standalone root 10202 1 0 11:14 ? 00:00:00 /usr/opensv/netbackup/bin/bpcd -standalone</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# /usr/opensv/netbackup/bin/bpps root 25641 1 0 03:27 ? 00:00:00 /usr/opensv/netbackup/bin/vnetd -standalone root 25644 1 0 03:27 ? 00:00:00 /usr/opensv/netbackup/bin/bpcd -standalone root 25663 1 0 03:27 ? 00:00:00 /usr/opensv/netbackup/bin/bmrbd</pre>
THIS PROCEDURE HAS BEEN COMPLETED		

1.5 Uninstalling NetBackup 7.0 from the Policy Management System

BACKGROUND: Direct NetBackup upgrade from version 7.0 to 7.1 is not supported in any Policy Management release. In order to upgrade an old Policy Management release with NetBackup 7.0 installed to a newer Policy Management release only supporting Netbackup 7.1, it is required to remove NetBackup 7.0 first and then install NetBackup 7.1. Following procedure covers the steps to remove NetBackup 7.0 in Oracle Communications Policy Management software. The steps of installing NetBackup 7.1 in Oracle Communications Policy Management software are covered in Section 7.8 of Policy 10.5 Software Installation Procedure (WI006938/CGBU_698).

IMPORTANT: This procedure only applies to the scenario where NetBackup must be upgraded from 7.0 to 7.1, to support the Policy Management software's upgrade to a newer version which only supports Netbackup 7.1. All the commands in this procedure are entered while being logged in as the root user

Step	Procedure	Result
1. <input type="checkbox"/>	Verify NetBackup is enabled	<p>Use the following command to verify that NetBackup is enabled.</p> <pre>/usr/opensv/netbackup/bin/bpps</pre> <p>Example output</p> <pre>root 10199 1 0 11:14 ? 00:00:00 /usr/opensv/ netbackup /bin/vnetd -standalone root 10202 1 0 11:14 ? 00:00:00 /usr/opensv/ netbackup /bin/bpcd -standalone</pre>
2. <input type="checkbox"/>	Stop NetBackup services	<p>1. Enter the following command to stop the NetBackup Services:</p> <pre>~]# service netbackup stop</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# service netbackup stop stopping the NetBackup client daemon stopping the NetBackup network daemon</pre> <p>2. Enter the following command to stop the Symantec Private Branch Exchange:</p> <pre>~]# service vxpbx_exchanged stop</pre> <p>Example output</p> <pre>[root@CMP240-133 ~]# service vxpbx_exchanged stop Stopped Symantec Private Branch Exchange</pre>
3. <input type="checkbox"/>	Back up needed files	<p>Copy 2 files from NetBackup folder to backup location.</p> <pre>~]#cd /var/camiant ~]#mkdir nbbackup ~]#cd nbbackup/ ~]#cp /usr/opensv/netbackup/bin/bpend_notify /var/camiant/nbbackup/ ~]#cp /usr/opensv/netbackup/bin/bpstart_notify /var/camiant/nbbackup/</pre>

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Step	Procedure	Result
4. <input type="checkbox"/>	Remove all NetBackup related folder and files	<p>1. Remove the NetBackup software directory.</p> <pre>~]# rm -rf /usr/opensv</pre> <pre>[root@CMP240-133 ~]# rm -rf /usr/opensv</pre> <p>2. Remove NetBackup reference files in /etc/xinetd.d</p> <pre>~]#rm -f /etc/xinetd.d/bpcd</pre> <pre>~]#rm -f /etc/xinetd.d/bpjava-msvc</pre> <pre>~]#rm -f /etc/xinetd.d/vnetd</pre> <pre>~]#rm -f /etc/xinetd.d/vopied</pre>
5. <input type="checkbox"/>	Restore backed up files for future upgrade purpose	<p>Create the NetBackup directory and copy the backup files into the directory</p> <pre>~]#mkdir /usr/opensv</pre> <pre>~]#mkdir /usr/opensv/netbackup</pre> <pre>~]#mkdir /usr/opensv/netbackup/bin</pre> <pre>~]#cp /var/camiant/nbbackup/bpend_notify /usr/opensv/netbackup/bin/</pre> <pre>~]#cp /var/camiant/nbbackup/bpstart_notify /usr/opensv/netbackup/bin/</pre>
6. <input type="checkbox"/>	Restart inetd service	<p>Restart the inetd service to clean up NetBackup configurations</p> <pre>~]#/etc/rc.d/init.d/xinetd restart</pre> <p>Example output</p> <pre>[root@CMP240-133 admusr]# /etc/rc.d/init.d/xinetd restart</pre> <pre>Stopping xinetd: [OK]</pre> <pre>Starting xinetd: [. OK _]</pre>
THIS PROCEDURE HAS BEEN COMPLETED		