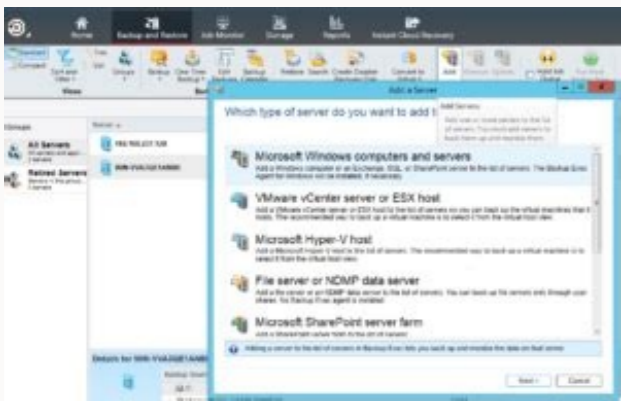
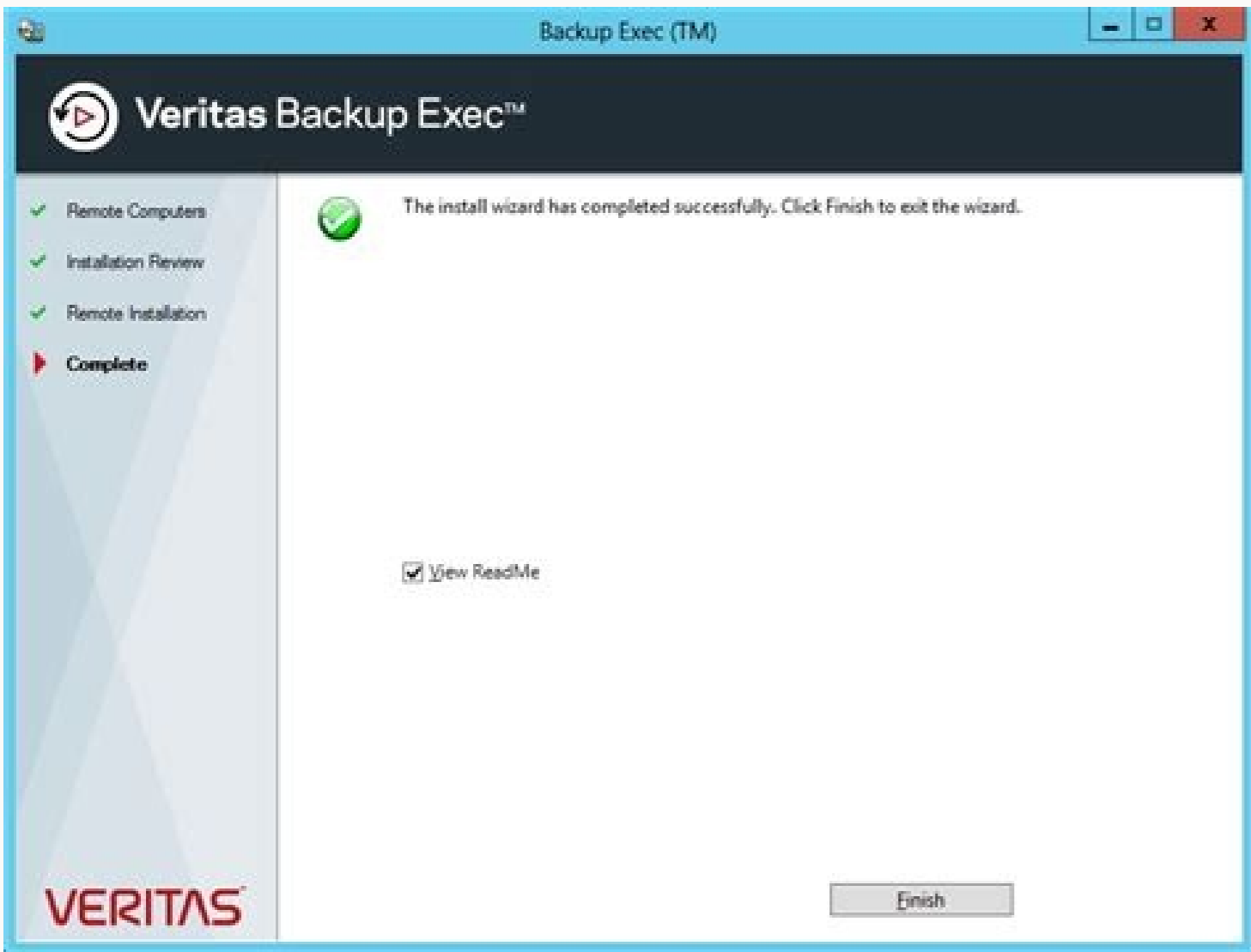
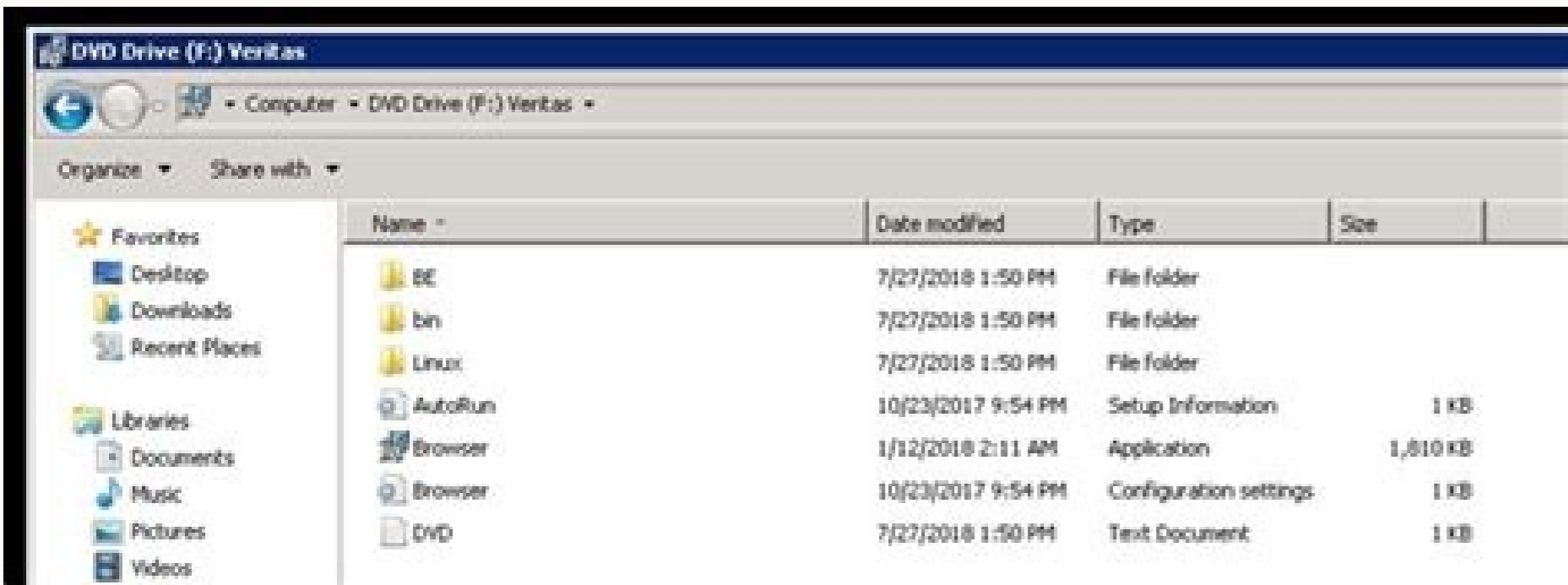
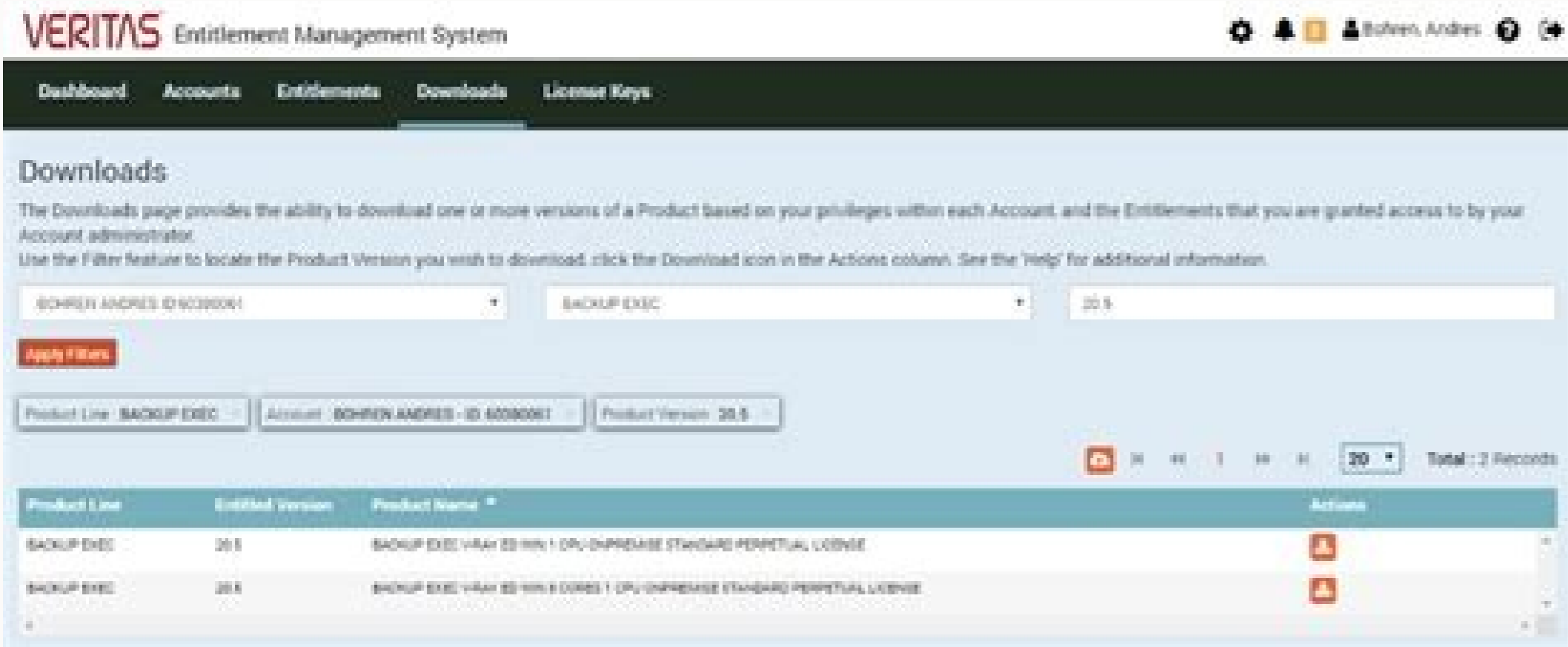
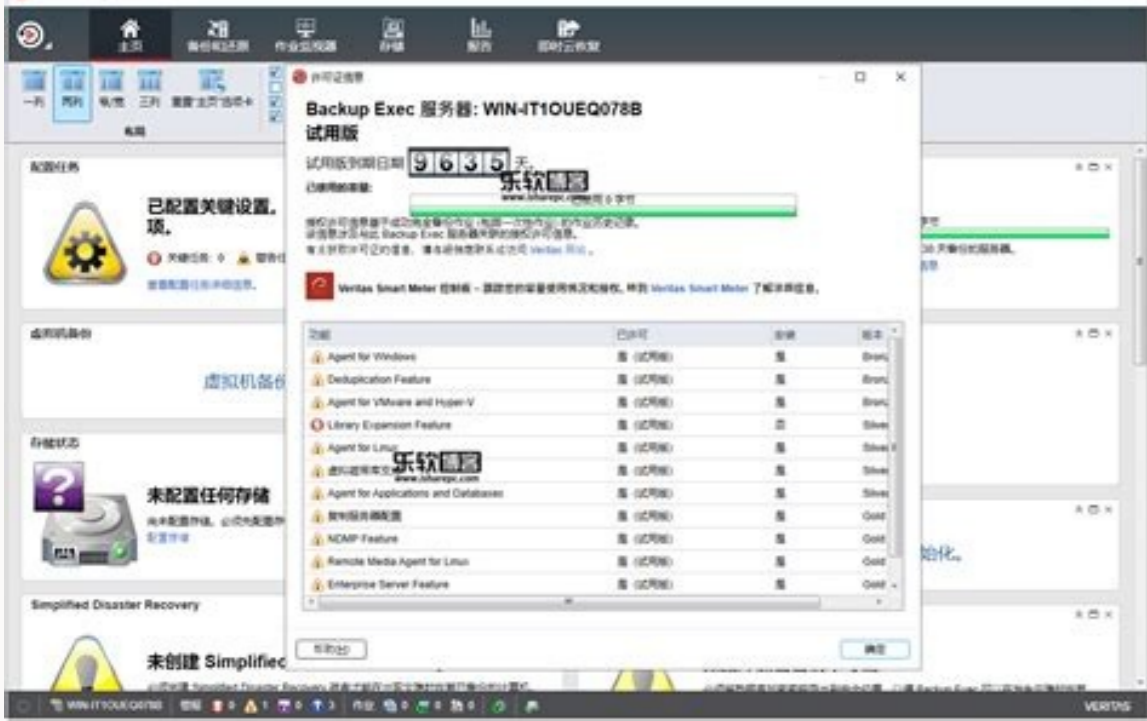


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How to upgrade backup exec 20 to 21.

Need to manually upgrade Backup Exec from a previous version. Solution The recommended upgrade method is to allow the Backup Exec (BE) installer upgrade BE and its database during the installation. If that fails to occur or a saved database from a previous BE version needs to be added to a newer BE version, the BEMIG tool can be used. This tool follows the same upgrade version rules that the BE installer has. This is noted in the chart below. Note: If the .mdf and .ldf files are from an older version of Backup Exec installed on a different server then please do not follow the procedure below if any of the following are true: Backup Exec is clustered. The Backup Exec Shared Storage Option (SSO) is installed. The Backup Exec Central Administration Server (CAS) is installed. The computer where Backup Exec is installed and the computer where it will be installed are running two different versions of the Windows Operating System. If planning to move Backup Exec to a different drive/directory on the server. Steps:1. Confirm Backup Exec is working in its current database. Update Backup Exec to the latest Service Pack, Feature Pack, or Hotfix. Obtain patches from the Veritas Download Center2. Stop the all Backup Exec services (including the SQL (BKUPEXEC) service). NOTE: For Backup Exec 22 the SQL instance name and service name is SQL (BKUPEXEC64). 3. Open (Program Files)\Symantec or Veritas \Backup Exec Directory. Copy the Data folder and paste it in the same location. Rename the "Copy of Data" to "Data-TodaysDate" or "Data-Version#-New"4. Copy the saved Database from the previous BE version into the \Backup Exec\Data folder(or the entire folder). This will be bedb_dat.mdf and bedb_log.ldf files.5. If the Catalogs have been saved also, rename the Catalogs to Catalogs.old, then copy/move the saved catalogs under Backup Exec.6. Start the SQL service.7. Set the registry keys for BEMIG.Warning: Incorrect use of the Windows registry editor may prevent the operating system from functioning properly. Great care should be taken when making changes to a Windows registry. Registry modifications should only be carried-out by persons experienced in the use of the registry editor application. It is recommended that a complete backup of the registry and workstation be made prior to making any registry changes. 7a. Launch the Registry Editor (Start, Run, Regedit32). Navigate to HKEY_LOCAL_MACHINE\Software\Symantec\Backup Exec for Windows | Backup Exec | "VersionNumber" | Install Or HKEY_LOCAL_MACHINE\Software\Veritas\Backup Exec for Windows | Backup Exec | "VersionNumber" | Install 7b. Modify the value of "Upgrade" to 1. (Create as a Dword if it is not present)7c. Modify the value of "Upgrade Navigation" to the version of the database DB being imported or migrated from. See chart. Note: (Create as a STRING value "Upgrade Version" if not present in the registry) Please refer the following Table while setting the value for Upgrade version Key.X indicates BE versions that can be upgraded from Backup Exec Name Upgrade Version 11 12.0 12.5 2010 2010 R2 2010 R3 2012 2014 15 16 20 21 22 9.1 9.1.4691.0 X 10.0 revision 5484 10.0.5484.0 X 10.1 (104) 10.1.5629.0 X X 11 revision 6235 11.0.6235.0 X X X X 11 (11d) revision 7170 11.0.7170.0 X X X X X 12.0 12.0.1364.0 X X X X 12.5 12.5.2213.0 X X X X X 2010 13.0.2896.0 X X X X 2010 R2 13.0.4164.0 X X X 2010 R3 13.0.5204.0 X X X (1) X (1) 2012 14.0.1798.0 X X X 2014 14.1.1786.0 X X X 15 14.2.1180.0 X X X 16 16.0.1142 X X 20 20.0.1188 X X 21 21.0.1200 X (1) To upgrade to Backup Exec 15 or Backup Exec 16 from BE2010 R3, SP4 or later has to be installedNote:Do not upgrade to Backup Exec 15 or Backup Exec 16 from an earlier versions of Backup Exec that run on a 32-bit operating system. Installations of Backup Exec 15 or Backup Exec 16 on 32-bit operating systems is no longer supported.8.Open a CMD command prompt to (Program Files)\Symantec\Backup Exec or (Program Files)\Veritas\Backup Exec Run BEMIG.exe Wait for it to fully complete and return to a new prompt. 9. Start BE services and open the BE console.Note 1 : If the services fail to start, you may need to do additional steps of:- Stop the SQL (BKUPEXEC) service. Backup Exec 22 stop the SQL (BKUPEXEC64) service. Copy the BEDB database files from the Data folder to the desktop. Start the SQL (BKUPEXEC) service. Backup Exec 22 start the SQL (BKUPEXEC64) service. Run BEMIG Copy Database to import the desktop BEDB files. This will correct any Environmental changes affecting the database. Copy Database Document - www.veritas.com/content/support/en_US/article.100017867.htm Note 2 : Job Logs (for jobs run prior to the migration) are not maintained inside the Backup Exec Database. If older jobs logs need to be accessible after the migration, then they have to be copied separately, however if Backup Exec is installed in a different path on the new server then you will not be able to open the copied job logs from within the Backup Exec Console itself (and will have to directly open the XML files to review them). Job Histories (which are kept inside the database) should still be accessible. Note 3 :- Due to how volumes are given new identifiers on new servers and how plug-n-play on the operating system will detect storage devices such as tape libraries, any storage devices used as targets for the backups will be seen as new devices after the migration. This does mean you may have to adjust the storage configuration within Backup Exec and also reconfigure the job definitions so that the jobs use the newly configured devices. Additional Tool and Information: Backup Exec Migration Assistant Information: Backup Exec Migration Assistant Download: @BEUser33 Not sure where you are looking - BE 21 is available on the Download page -> Click on Downloads, When I select Backup Exec, it shows version 21 on the left. When I then select 'Base and upgrade installers', I received a message saying 'You must sign in to download'. The system checks if you have valid maintenance before it makes the download available. About upgrade path - you can upgrade directly to version 21 from BE15 and above.I believe upgrade steps are documented in the BE21 Admin Guide. View solution in original post This article provides guidance for upgrading older versions of Backup Exec and deciding when to retire Backup Exec installations that are no longer supported in favour of starting with a fresh installation of the most recent release. It also outlines what support opportunities are available and provides recommendations on situations that require a consultant as opposed to opening a case with Technical Support. Veritas recommends that customers use the most current version of Backup Exec because: Current operating system, application and hardware support is available Veritas provides timely solutions for new security vulnerabilities Full on-going support is available Keeping Backup Exec up-to-date fosters the same standards for all elements of the IT environment and thus encourages regular IT system refreshes that can increase reliability and performance Veritas now offers Professional Service for Backup Exec™ – The Backup Exec Installation, Migration and Upgrade Service – this service will help you implement the latest version of Backup Exec. The service includes the following three options: Option 1: An installation of the current version of Backup Exec or a previous version if required.Option 2: An upgrade of the Backup Exec Server to the latest version of Backup Exec.Option 3: A migration of the data from an existing Backup Exec server to a new Backup Exec server To purchase the service, contact your local software reseller or Veritas account representative today. Click here for more details. You may also reach out to Authorized Veritas Distribution Partner using following link: Upgrading Backup Exec Best Practices When considering an upgrade: Check the Backup Exec compatibility lists carefully, not just against the Backup Exec server itself, also make sure the elements of the environment that need to be backed up are compatible. The Backup Exec Master Compatibility list is available at backupexec.com/compatibility Plan to upgrade any unsupported systems, prior to (or along with) upgrading Backup Exec. If operating systems or applications cannot be upgraded, customers may need to consider using the server running the older version of Backup Exec only to protect the older systems (without any on-going support from Veritas) and use a new Backup Exec installation to protect systems that remain supported by the current Backup Exec version and the OS/application vendor. Only versions of Backup Exec that support a direct upgrade to the most current version should be considered for upgrade. At the time of this publication that includes upgrading Backup Exec 2014, 15 and 16 to Backup Exec 20. Older versions of Backup Exec, including 2010 and 2012, should be used only for restores and should not be upgraded; rather a new installation of Backup Exec should be used to protect the network environment. Always plan to upgrade to the most current version of Backup Exec. If this is not possible, the upgrade version MUST still be in Standard Support. End of Standard Support and End of Support Life dates are available in Product EOSL. Support for versions past the End of Standard Support date require an Extended Technical Support contract in addition to an active Maintenance Agreement. Review your on-going license requirements and consider cross-grading to another licensing edition. For many customers, it may be less expensive to move to Bronze, Silver or Gold capacity editions than maintaining the older à la carte licensing (also known as Custom Edition). Licensing edition details can be found in the Backup Exec Licensing Guide. Ask your sales or renewals partner for a quote for cross-grading to the newer licensing model. For performance, capacity and reliability reasons, consider updating any backup storage hardware (old tape devices, old disk systems) In addition to the above considerations, upgrading Backup Exec may also include: Upgrading the Backup Exec server hardware Upgrading the Operating System of the Backup Exec server to maintain support and updates from Microsoft Changing the Backup Exec server hardware and/or Operating System requires a migration of Backup Exec that includes backing up and (if possible) documenting the existing Backup Exec Configuration, installing Backup Exec on the changed server and then recovering the Backup Exec configuration, database and catalogues. It is recommended to install the same version of Backup Exec on the new hardware/OS as the old Backup Exec server, migrating the Backup exec configuration and then upgrade to the most current release of Backup Exec. This scenario also applies to the Backup Exec appliances which reach End of Support Life on November 7, 2019. For more information about migrating Backup Exec to new hardware, please refer: How to use the Backup Exec Appliance "Exchange" program. This article provides information about the Backup Exec appliances and links to several articles about migrating an existing Backup Exec installation to new hardware/OS. Veritas Backup Exec Migration AssistantThe Migration Assistant migrates all Backup Exec configuration and data from the source server to destination server. Backup Exec Migration Assistant - BEMA 21.0 supports migrating Backup Exec 15, 16 and 20. Backup Exec 21 Backup Exec Migration Assistant - BEMA 20.x supports migrating Backup Exec 2014, 15 and 16 to Backup Exec 20 Backup Exec Migration Assistant - BEMA v1 supports migrating Backup Exec 2010 to Backup Exec 16 When upgrading Backup Exec, also seriously consider replacing outdated storage devices and media: The reliability, capacity and performance of storage devices used for backup and restore operations is critical to the protection and recovery of IT systems. Older (obsolete) storage devices (especially older devices with mechanical operations such as tape libraries and drives) are more prone to failure due to their age. Storage devices and media (such as tapes) have both mechanical elements and magnetic/electrical mechanisms that have recommended lifetimes. Storage devices and media should be periodically refreshed, particularly if this refresh includes a technology change that also has performance and capacity benefits. For information on the recommended lifetimes of tape media (and possibly devices) please review the information provided by the manufacturers. For guidelines and step-by-step instructions to upgrade Backup Exec 2014, 15, or 16 to Backup Exec 20, please refer: Key information and guidelines for Backup Exec upgrades Upgrade Scenarios That Should Be Avoided Upgrade scenarios that should be avoided are: Upgrading a 32-bit installation to 64-bit installation Upgrading from a Backup Exec version that is too old to support a direct upgrade. This includes upgrading from Backup Exec 2012, 2010 and older. Any upgrade plans that require installing an interim Backup Exec version prior to upgrading to the most current release. These upgrade scenarios should be avoided because they increase the complexity of the upgrade process: Due to the increased complexity, there is a greater chance of problems being introduced that affect the reliability of Backup Exec after the upgrade Due to the increased complexity the time required to complete the upgrade may be considerably longer and involve more personnel. Veritas Engineering teams do not officially test multi-stage upgrades so we cannot document or predict the nature of any problems that may be experienced if the Backup Exec upgrade being considered includes scenarios that should be avoided. Veritas recommends that: The old Backup Exec server, storage devices and media should be mothballed (decommissioned but left intact to allow restores of older data) New server hardware, storage devices and media should be purchased for a clean Backup Exec installation to the latest version Planning to decommission and retain the existing Backup Exec server has benefits: The new server can be built and tested before decommissioning the old one Admin staff can be trained and become familiar with any differences A rolling migration of remote systems protected by the Backup Exec server can be performed, which can be very useful for larger environments or those where one or two servers would be unsupported after the upgrade The rollback or bailout plan for any change control process is simpler Backup data from the older system can still be restored (possibly as a redirection). Note: If systems and applications protected by Backup Exec have also been upgraded then there may be limitations on restores that would apply equally to the new server issues and problems present in the old system are not migrated to the new system It is possible to move to newer, higher capacity and faster, storage devices without concerns about media compatibility for restores of older data (for example, early LTO tape standards cannot be read by the newest LTO drives) Technical Support Options and Limitations Veritas Technical Support will research and assist with Backup Exec upgrades that follow the recommendations provided above, including upgrading from Backup Exec versions that have passed the End of Support Life (Backup Exec 2014) or End of Standard Support (Backup Exec 15). Reasonable efforts assistance may be applied to issues arising from the continued use of older storage devices and media. Assistance will NOT be provided for upgrades that would be considered as scenarios that should be avoided and customers should either follow the recommendation of mothballing their existing Backup Exec server or engage with a consultancy partner to discuss options. Refer to following article for step by step instructions on upgrading Backup Exec: Step by Step Upgrade from Backup Exec 2014 onwards to Backup Exec 20.x and above

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