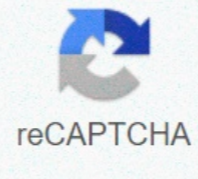




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## Brocade network advisor san installation and migration guide

What is a BNA 14.4.1 upgrade to DELLEMC CMCNE 14.4.4 you might ask? If you are managing a Fibre Channel fabric it is quite common to have Brocade switches running. In that case, I hope you have moved on from the Java web client to the free version of Brocade Network Assistant (BNA). The free client was not the best end-user experience and gave us a lot of hassle just to keep running. See Manage Your Brocade Fibre Channel Switch with recent Java & browser versions. BNA works better in a modern environment. It offers more functionality and provides for better and easier user experience. BNA itself is on the way out (EOL 2022) and will be replaced with SANNav as the Java runtime sage is reaching a point where just about the entire world has decided it is unsustainable as a future approach to management tools. But that will take a while and we need a basic free tool to get the job done. Sure older versions still work but staying up to date is a good thing. On top of that, one of the most annoying things about BNA was the lack of support for Windows Server 2016/2019. Well BNA 14.4.4 solved that issue. So let's upgrade! Well it turns out we need to do an upgrade from BNA 14.4.1 upgrade to DELLEMC CMCNE 14.4.4. Let me explain that. Finding Brocade Network Analyzer 14.4.4 On the Brocade site, the downloads for BNA 14.4.4 are darn near impossible to find or you don't have access to them. And if you google for that you'll find a lot of people trying but failing to find it. It is also there that you will find the information that BNA will be replaced. The good news is that as a DELL customer you can normally download the OEM branded version of this software. In the past, this used to be found at but that is no longer there. Today in the DELLEMC world, this is called Connectrix Manager - Converged Network Edition. We are looking for version 14.4.4 and yes on the DELL website (you need to create an account to login) you will find it at . You want 14.4.4 as it supports Windows Server 2016/2019 but also because it fixes some issues with 14.4.3. Connectrix Manager - Converged Network Edition 14.4.4 So we download it and we start our upgrade process. 14.4.4 fixed an issue with 14.4.3 that causes issues with importing an existing config by the way. So use 14.4.4. The install process in pictures Run the installer Click Next Accept the EULA Accept default install path or choose a custom one If you're happy with your choice, click install to continue Be patient while the setup runs. Done! Leave the checkbox marked to launch the CMCNE Configuration The upgrade process in pictures The wizard will run you through the upgrade process. For an existing installation, you will accept to leave everything as it was. This depends on your needs. Be patient. Be even more patient Click next to continue with the data migration process. Select the appropriate license. I accept the defaults I have no preference Change if needed, otherwise, go with the defaults If your company policy allows it, you can opt into the improvement program. Yup, all looks fine, click Next Kick of the migration. Pay attention to the remark about the services window that must be closed. Also, note that the client might not start immediately as the service has to be up and running first. Migrating and initializing the database Just cleaning up here. Log in! Note you might want to wait a while to make sure the service has started. Success! Now you can also upgrade your virtual machine from W2K12R2 to W2K19. That's it. You performed a BNA 14.4.1 upgrade to DELLEMC CMCNE 14.4.4 Upgrade to Windows Server 2019 Finally, we upgrade the virtual machine OS to Windows Server 2019. With 14.4.4 this is possible and we can get rid of the legacy OS we had to introduce or keep around just to run BNA. Good news all around. Success, we have 14.4.4 running on our Windows Server 2019 management virtual machine. Conclusion You can become happy consultants or customers. By installing BNA 14.4.4 you keep your network fabric management software up to date. Last but not least, you can upgrade the OS version of the virtual machines running it to Windows Server 2019. This will keep us going for a couple of years in a modern, secure and capable environment until the successor is clear and available to all. I hope this helps some of you out. This guest post is brought to you by Jason Moorhead, if you fancy trying you hand at blogging check out our guest posting opportunities. This doc will show how to update the fabric operating system (FOS) on a Brocade fibre channel switch using Brocade Network Advisor (BNA). Last I heard, BNA is free for non-Director class switches, and is infinitely easier than using the FTP method to do upgrades. One huge benefit is that you can update multiple switches (like say an entire fabric) at once. If you're in a large organization that has dual redundant fabrics, you can update dozens of switches at once. Assuming you have a BNA installation already, the high level steps are as follows: Download firmware from brocade.com Go into Firmware management in BNA and upload firmware file and md5 Select the switches you want to update, and what version you want each one to go to Click "download" A couple things to remember here... First off, make sure you save off the md5 file when you download the firmware file. Second, only upgrade one major version at a time. For example you cannot go from 7.0.x directly to 7.4.2c. The upgrade path here is 7.0.x -> 7.1.x -> 7.2.x -> 7.3.x -> 7.4.2c. Now let's run through the steps in detail. 1 Download firmware and md5 from brocade.com Search for the firmware you require at the Brocade download area 2 Upload firmware into Brocade Network ADVISOR repository Open up BNA and click on Firmware Management from the configure menu Click on "import" to add the recently downloaded firmware version to the BNA repository Enter the location for the firmware .zip and .md5 file then hit OK You will see the following checks being performed If all goes well you should see the success message below 3 Choose Brocade switches for firmware update A list of all switches in BNA is on the left. Highlight the switches you want to upgrade, and click the right arrow to add them to the active list. For each selected switch, choose the firmware version you want to install on the switch, keeping in mind you cannot upgrade more than one major version at a time. If you need to go from 7.2 to 7.4, you would need to run this upgrade twice. Once everything looks good, click "Download". BNA will then take care of all the uploading of data, and run through all the various upgrade tasks that often need to be done manually with the FTP method of upgrading switch firmware, including all reboots. The process will update you in the status window, and eventually tell you the switch has been upgraded. You can then keep the same switches chosen, to do another major version upgrade, or choose a new set of switches. Lenovo offers the following optional fabric management tools for Brocade-based SAN infrastructures: Lenovo offers optional Brocade SANnav Management Portal and SANnav Global View that provide comprehensive visibility into the SAN environment, allow administrators to quickly identify, isolate, and correct problems, and accelerate administrative tasks by simplifying and automating workflows. SANnav Management Portal is a next-generation SAN management application with a simple browser-based user interface (UI) and with a focus on streamlining common workflows, such as configuration, zoning, deployment, monitoring, troubleshooting, reporting, and analytics. Lenovo offers the following SANnav Management Portal editions: SANnav Management Portal Base: Designed for mid-sized SANs to manage up to 600 SAN switch ports only (SAN director ports can only be managed with the Enterprise edition). SANnav Management Portal Enterprise: Designed for enterprise-class SANs to manage up to 15 000 SAN switch and director ports. SANnav Management Portal supports all Brocade SAN switches and platforms that run the Fabric OS version 7.4 or above, including Lenovo B300, B6505, B6510, DB610S, DB620S, DB400D, DB800D, and FC5022. With SANnav Global View, administrators can quickly visualize the health, performance, and inventory of multiple SANnav Management Portal instances using a simple, intelligent dashboard and can easily navigate from a global view down to local environments to investigate points of interest. SANnav Global View is designed to manage up to six SANnav Management Portal instances. For more information, refer to the SANnav Management Portal documentation. The following table lists ordering information for the optional SANnav Management Portal and SANnav Global View management tools. The SANnav licenses are subscription-based with 1-year or 3-year software entitlement and support. Lenovo offers optional Brocade Network Advisor, a fabric management application, to efficiently manage the network operations lifecycle, including monitoring, diagnostics, change management, and troubleshooting. Lenovo offers the following Network Advisor editions: Network Advisor Professional Plus: A SAN management application designed for mid-sized SANs for managing up to 36 physical or virtual fabrics and up to 2560 switch ports. Network Advisor Enterprise: A SAN management application designed for enterprise-class SANs for managing up to 100 physical or virtual fabrics and up to 15 000 switch ports. Brocade Network Advisor supports the wide variety of Brocade SAN offerings, including Lenovo B300, B6505, B6510, DB610S, DB620S, DB400D, DB800D, FC5022, and more. For a complete list of supported products and edition features, refer to the Brocade Network Advisor Installation and Migration Guide: The following table lists ordering information for the optional Brocade Network Advisor management application. The Brocade Network Advisor licenses include 1-year software support entitlement. The options to extend entitlement for additional years of software support in 1-year increments are listed in the following table. Loading PreviewSorry, preview is currently unavailable. You can download the paper by clicking the button above. Installing the client-only application NOTE You can download the client bundle only when browser operating system and server operating system is same. Client Bundle support only 64-bit OS. NOTE Client bundle must be triggered manually if you modify the data in the Option dialog box. NOTE Download client is bundled with BNA server java runtime environment package. 1. Click the client bundle and download the file. 2. Extract the client bundle. 3. Navigate to the extract\_location\bin directory (for example, C:\Users\user\_name\Desktop\Network Advisor-client\bin) and run dcmclient.bat for windows and dcmclient for linux or (BNA\_HOME\bin) and run create-client-bundle.bat for windows and for linux create-client-bundle. The Network Advisor Log In dialog box is displayed. 4. Enter the IP address of the Network Advisor server in the Network Address list. NOTE The server must be the exact same version, edition, starting port number, and network size as the client. NOTE You can remove a server from the Network Address list by selecting the IP address and clicking Delete. 5. Enter your user name and password. The defaults are Administrator and password, respectively. NOTE Do not enter Domain\User\_Name in the User ID field for LDAP server authentication. 6. Select or clear the Save password check box to choose whether you want the application to remember your password the next time you log in. 7. Click Login. 8. Click OK on the Login Banner dialog box. The Network Advisor application displays.



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