NETCONECT

Installing NetConnectX on a Physical Device

v0.1

Version Information

Date	Version	Author	Notes
14/05/2019	0.1	Kieran Cope	Initial Draft

Approvals

Date	Status	Name	Notes

Introduction

This document has been created to help walkthrough the manual process of installing NetConnectX. This is commonly for physical devices as they are unable to utilise the pre-configured templates designed by Northbridge. This process involves installing and configuring the base OS of centos before copying and installing the NetConnect component.

Pre Requisites

Before the installation process can begin, the following will need to be readily available'

- Bootable USB with CentOS 7.4 minimal installed. This can be obtained from the Northbridge Software page <u>https://northbridgesecure.com/software/ncxlyf/</u>
- The latest .tgz version of NetConnect. This is also available from the Northbridge Software page <u>https://northbridgesecure.com/software/ncxlyf/</u>
- SSH Application. We would recommend Secure Shell Client as this is what's used in the guide. A link to the download can be found here - <u>https://ccm.net/download/download-</u> <u>1423-ssh-secure-shell-windows</u>
- Bootable USB Software. If one is not available, then the following can be used -<u>https://rufus.ie/</u>
- Network Details
 - o Static IP address
 - o Netmask
 - Gateway
 - o DNS Servers

Installing the CentOS Component

The first section of this document will walkthrough installing the base operating system, being that of CentOS 7.4. Once this has been installed, the NetConnect image can then be placed on top.

To install the CentOS 7.4 software, plug in the bootable USB with the image into the physical device and follow the below steps;

1. Once the image has loaded select install by selecting **Enter** to begin the CentOS install.



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2. Select the language that you wish to use through the CentOS installation.

WELCOME TO CENTOS LINUX 7.

	English 💙	Er
Afrikaans	Afrikaans	En
አማርኛ	Amharic	En
العديية	Arabic	En
	Arabic	Eng
অসমারা	Assamese	Engli
Asturianu	Asturian	Englis
Беларуская	Belarusian	English
Български	Bulgarian	English
বাংলা	Bengali	English (H
Bosanski	Bosnian	English (P
Català	Catalan	English (Sir
Čeština	Czech	English (So
Cumraad	Malch	English (Zar
Cymraeg	vvelsn	English (Zi
Dansk	Danish	English (Bo

3. Configure the CentOS by confirming key aspects of the system such as timezone, install location and network details.

Э	DATE & TIME Americas/New York timezone		KEYBOARD English (US)
á	LANGUAGE SUPPORT English (United States)	k	
TWA	RE		
0	INSTALLATION SOURCE	É	SOFTWARE SELECTION Minimal Install
TEM			
9	INSTALLATION DESTINATION Automatic partitioning selected	Q	KDUMP Kdump is enabled
2	NETWORK & HOST NAME Not connected	_	SECURITY POLICY

4. Configure the password for the root user and wait for the installation to complete. Once complete, reboot the box

USER SETTINGS	_	
ROOT PASSWORD Root password is not set	2	USER CREATION No user will be created
,	•	

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Installing the CentOS Component

Now that the base operating system has been installed, the system is now ready to have NetConnect installed over the top. In order to achieve this, follow the below steps;

1. Open the SSH application and connect to the CentOS environment

Connec	t to Remote Host		×
	Host Name: User Name: Port Number: Authentication Method:	x.x.x.x root 22 <profile settings=""></profile>	Connect Cancel

2. Once the connection has been established, copy across the .tgz file to the /opt directory

🚰 2:10.2.23.185 - default - SSH Secure File Transfer	- 🗆 X
<u>File E</u> dit <u>V</u> iew <u>O</u> peration <u>W</u> indow <u>H</u> elp	
📗 🖬 🎜 🍘 📾 🗐 🍎 🎦 🧠 🗍 🗸 🕆 🕅 🔤 🦆 🔠 🗰 👘 dep 10	
👔 Quick Connect 🧰 Profiles	
🔁 🖄 🛍 🌣 📸 🗙 []onnect\NextGen\ 🔽 Add 🔁 🖄 🛍 🕫	🎝 🚔 🗙 🚺 /opt 💽 🖌 Add
Local Name 🛛 🖉 Size Type Modifie Remote Name	∇ Size Type Mo
🔍 NCP.1.0.0 611,380,0 TAR File 09-Ap 🔍 NCP.1.5.1265	5.tgz 780,345,5 TGZ File 14
INCP.1.3.1251 780 347 0 TGZ File 23-Ap	
🔍 NCP.1.5.1265 780,345,5 TGZ File 14-Ma	
TGZ File 30-Ap	
NCX+1.2.ova 18446744 OVA File 18-Ap	
NetConnectX 1.4.ova 18446744 OVA File 30-Ap	
< > > <	
Transfer Queue	
	ze Status Speed Time
	Complete 15894.9 KB/s 00:00:49
	·····
Connected to 10.2.23.185 - /opt SSH2 - aes128-cbc - hmac-	sha1 - nc 1 items (780.3 MB)

 Now that the NetConnect file has been installed, the next step is to untar the file by running tar zxvf *Name of File* in the /opt directory. To navigate to this directory, simply run cd /opt

```
[root@localhost ~]# cd /opt
[root@localhost opt]# tar zxvf NCP.1.5.1265.tgz
```

4. Finally, the last steps involve running the install script that's part of the unzipped file. To ruin the script, navigate to the installation file within NCP and run the command

```
[root@localhost opt]# cd NCP/installation/
[root@localhost installation]# ./install.sh
```

This will now run the installation script and install the NetConnect system. This usually takes around 5-10 minutes and when finished, you will be able to navigate to the assigned IP address and begin configuring the NetConnect system.