



NetConnect Hyper-V Trial Setup V2.0

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Version Information

Date	Version	Author	Notes
2/11/2016	V1.0	James Newell	First Release.
4/11/2016	V1.1	James Newell	Contents updated.
05/06/2017	V1.2	James Newell	Updated file type info.
07/08/2017	V1.3	James Newell	Contents page update.
02/03/2018	V1.4	Xavier Simon	Changed network config + trial license gen.
04/04/2018	V2.0	James Newell	Minor content updates. Reference to technical training video added.

Overview

This document is intended to act as a guide to trialling NetConnect within a Hyper-V environment. In it, we'll cover the key steps involved with installing a fresh instance of the latest NetConnect release and publishing a desktop. Installation will be via a prepared Hyper-V virtual machine which is available on the Northbridge Secure website. This document is intended for admins looking to install NetConnect for evaluation purposes. By the end of this document, you will have published a desktop via NetConnect, installed a license and configured a certificate.

Once you have completed the installation steps detailed in this document, further configuration can be performed in order to utilise additional features and expand functionality.

Note this guide is intended for NetConnect version 8.4.0.15 or above. For reference, the contents of this guide are covered in further detail in chapters 2, 3 and 4 of our video guided technical training programme; we recommend completing this free course before a production rollout.

<https://northbridgesecure.com/training/>

Before you begin...

Prior to commencing your installation, you will require the following:

1. An active instance of Hyper-V, with configured network adaptors.
2. The capacity to create a virtual instance that meets the following minimum specs:
 - a. 2GB of RAM
 - b. 1 CPU
 - c. 40GB of hard disk space
 - d. Internet access.
3. A copy of the latest NetConnect Hyper-V image. This is available on our website <https://northbridgesecure.com/software>.
4. 1 dedicated static internal/private IP address.
5. 1 static external/public IP address with port 443 available.
6. Prior experience with Hyper-V.

Network Configuration Overview

For an optimal use of NetConnect, it is recommended to install NetConnect in a DMZ. NetConnect can also be installed within the main network if need be.

To enable external access, a port translation will need to be put in place, where port 443 (HTTPS) on the external static IP Address is redirected to port 443 on the internal IP address for the NetConnect server. These ports are configurable if required.

Default Passwords

For reference, the default Admin credentials for web access are below:

Username: admin
Password: adminv8

It is highly recommended to change this password as soon as possible to ensure the security of the NetConnect server, particularly if the server is accessible from the Internet.

1. Install and Network Configuration

Installation of the NetConnect Hyper-V instance is a straight forward operation. This document will pass over the standard image installation process and concentrate on the specific steps required for NetConnect. For detail on the standard Hyper-V virtual machine installation process, please refer to the publicly available Hyper-V guides.

The current NetConnect Hyper-V image file can be downloaded from <https://northbridgesecure.com/software>. Note, this will come as a virtual hard disk which will be used to build the Virtual Machine.

From your Hyper-V Console, select **New > New Virtual Machine** and follow the below steps;

Step	Action
<i>Before You Begin</i>	Select ' Next '.
<i>Specify Name and Location</i>	Define the name and storage location of the VM.
<i>Specify Generation</i>	Select ' Generation 1 '.
<i>Assign Memory</i>	Define the memory of the VM. The recommended size is 2GB or 2048MB.
<i>Configure Networking</i>	Select the relevant pre-configured Network adapter.
<i>Connect Virtual Hard Disk</i>	Select ' Use an Existing Virtual Hard Disk ', then use the browse option to select the NetConnect VHD downloaded from the Partner Portal.
<i>Summary</i>	Review and finish.

Once you have followed the deployment prompts, Hyper-V will provision your NetConnect VM based on the pre-configured virtual image file. Once completed, right-click on your new NetConnect VM and select "start". This server will boot up and you will be presented with the console log in screen.

Network configuration

Log in using the default network config user as presented on the screen to start setting up your network interface. The server will then reboot and apply your network configuration.

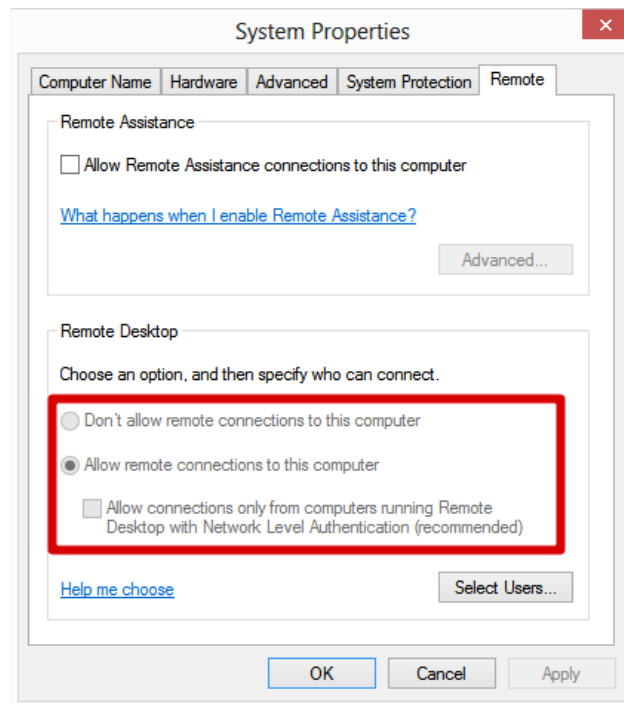
Your server is now available for configuration via the web interface.

2. Publishing a Desktop

This section describes how to create an HTML5 desktop for users to access from the WebTop.

Pre-requisites

- The IP address or hostname of the desktop you will be publishing.
 - The destination desktop will need to have Remote Access enabled as per the below. System Properties can be found by right-click 'Computer/This PC' within File Explorer, selecting 'Properties' and clicking on 'Remote Settings'. This will not be required if connecting to a Windows server.
 - Similarly, as active directory integration is not configured yet, network layer authentication is not possible. As a result, the "Network Layer authentication" box should be unticked.



Configuration

Open a browser and connect to NetConnect via the static internal/private IP address assigned to the server. Log in using the default Admin credentials (admin/adminv8). Once logged in, review and accept the EULA in order to access the WebTop. From the WebTop launch the **Admin** application.

- Navigate to **Applications > Configuration**.
- Select **Create New Application**.
- The Create New Application page appears.
- Enter an application name in the Application Name field.
- Select **Remote Application** from the Application Protocol drop-down menu
- Click **Submit**. The General properties page is then displayed.
- Enter the hostname or IP address of the server being published.
- Ensure **HTML5 Client** is turned to **On**
- Click **Modify**.

The new 'Desktop' application has now been created and is available to be assigned to users.

3. Assigning Applications.

This section explains how to assign the newly created desktop application to the Admin account. Only the Admin account will be able to access NetConnect until such time a valid licence is applied.

Open a browser and connect to NetConnect via the assigned static private IP address. Log in using the default Admin credentials (admin/adminv8). From the WebTop, launch the 'Admin' application.

- Click **Applications > Configuration** on the main menu.
- Select the application created in section 3.
- Click **Authorized Users**.

- Highlight **Local\Admin** within the Non-Member column, then click on the arrow pointing towards the 'Members' column. Changes to the Members and Non Members columns are saved automatically.

Finally, close the Admin tab log out of NetConnect from the WebTop. The next time you log in you will see the new Desktop application on the WebTop. Click on this and you'll launch your very first NetConnect session.

4. Applying a license and a certificate

In order to progress in your trial of NetConnect, you will require a license. Additionally, a valid SSL certificate will secure your connection and enable additional features such as access from mobile apps.

To assist you in this task, you can go to our trial website <https://www.trialnetconnect.com>.

This simple site will provide you with a trial license, a dedicated temporary URL linked to your own private IP address, and corresponding certificates. Note these should not be used in production as DNS entries are cleared when licenses expire.

Note for the certificate and DNS entries to be valid, your NetConnect server will need to be accessible from the Internet via your nominated external/public IP address. The only port required is https/TCP 443.

Upon receiving your license, you can install it by going to the admin portal, then **System Configuration -> Licensing**. Paste the supplied license in the text box and click Submit.

To apply your certificate, go to **System Configuration -> General -> SSL -> Load existing Cert**, and copy the private key and the certificate in the appropriate boxes.

5. Next Steps...

At this point access is limited to the desktop you've published and will only be available to the default NetConnect admin account. However, with some additional configuration you'll quickly be able to:

- Integrate with your Active Directory and enable Single Sign On.
- Use the dedicated NetConnect iOS or Android mobile apps with external keyboard and monitor support.
- Publish multiple applications hosted on internal servers.
- Easily provide multiple users with access to their personal desktops via the MyDesktop application.
- Configure multi-factor authentication.
- Print to any locally configured printer.
- Configure groups and V-Realms for enhanced access management.
- Change default admin passwords.

All these points are described in our administration manual, available on our partner portal. Additionally, our support team is available to help you at any time – customersupport@northbridgesecure.com.