SECURITY SERVER INSTALLATION GUIDE

Netop

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1.   Introduction

Netop Remote Control Security is a centralized authentication server for Netop Remote Control Hosts. It can also act as a centralized log server for Netop activity from both the Netop Host and Netop Guest.

The Security Server consists of two components

- the Security Server which is the engine that runs, listens, and processes the authentication requests from the Host.
- the Security Manager which is a GUI to edit the security roles and role assignments in the database. The Security Manager also allows you to view the Netop activity log.

This document walks you through the installation of Netop Security Server and integration with an SQL database and the Active Directory, ensuring functionality with Netop components.

This guide does not explain all options within the Security Server. For detailed information on the Netop Security Server complex functionality, refer to the Netop Remote Control Administrator's Guide.

1.2   Prerequisites

Before you begin, make sure that you meet the following prerequisites:
- a copy of the Netop Remote Control Security Server MSI file
- a valid serial number
- you have installed a Netop Guest and a Netop Host on different devices,
- you can make a remote control connection between the two.

2.   Required setups prior the Security Server Installation

1.1   Create domain admin account user

To create a domain account in the Active Directory server, proceed as follows:

1. Go to **Start**>**Programs**>**Administrative Tools**.
2. Click on **Active Directory Users and Computers**.
3. In the Active Directory Users and Computers window, expand <*domain name*>.
4. Right-click on **Users**.
5. Go to **New.**
6. Select **User**.
7. In the New Object - User dialog box, do the following:
   - In the **First name** and **Last name** fields, type a first and last name for the account.
   - In the **User logon name** field, specify the username that is used to log on to the Active Directory domain.

8. Click on **Next**.
9. In the **Password** field, type a password for the account, and then in the **Confirm password** field, retype the password.

10. Select **User cannot change password** and **Password never expires:**

8. Click **Next,** then click **Finish**. The domain account users will be added to the domain.

NOTE: To install the Security Manager, it is necessary that you are an administrator or a user with local administrator rights to the server and with access rights to the Windows Server console.

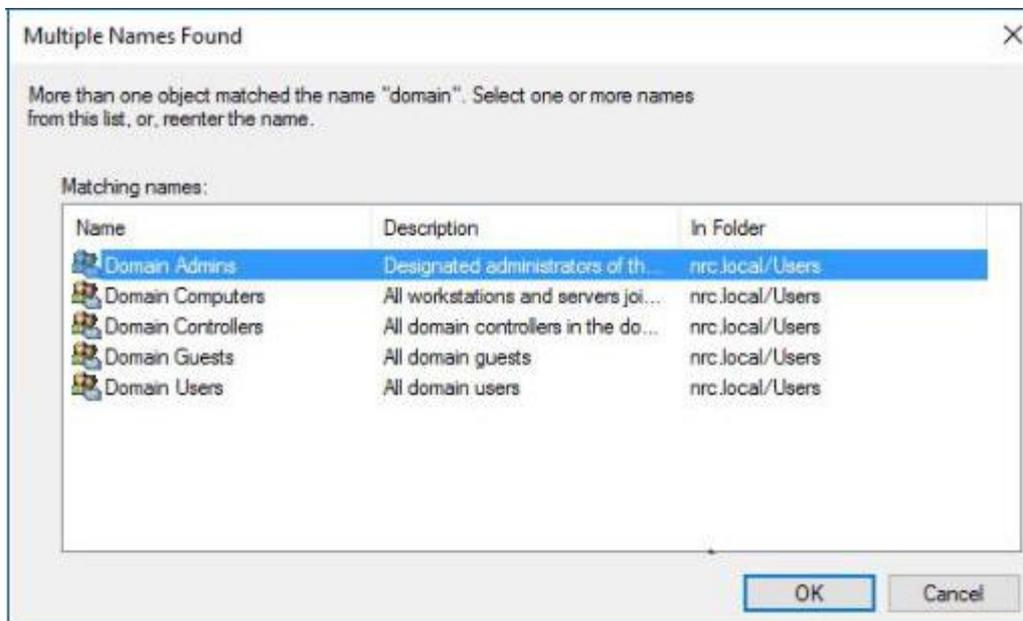To give the domain account administrative privileges, proceed as follows:

1. Right-click on the created user account and select **Add to a group**.
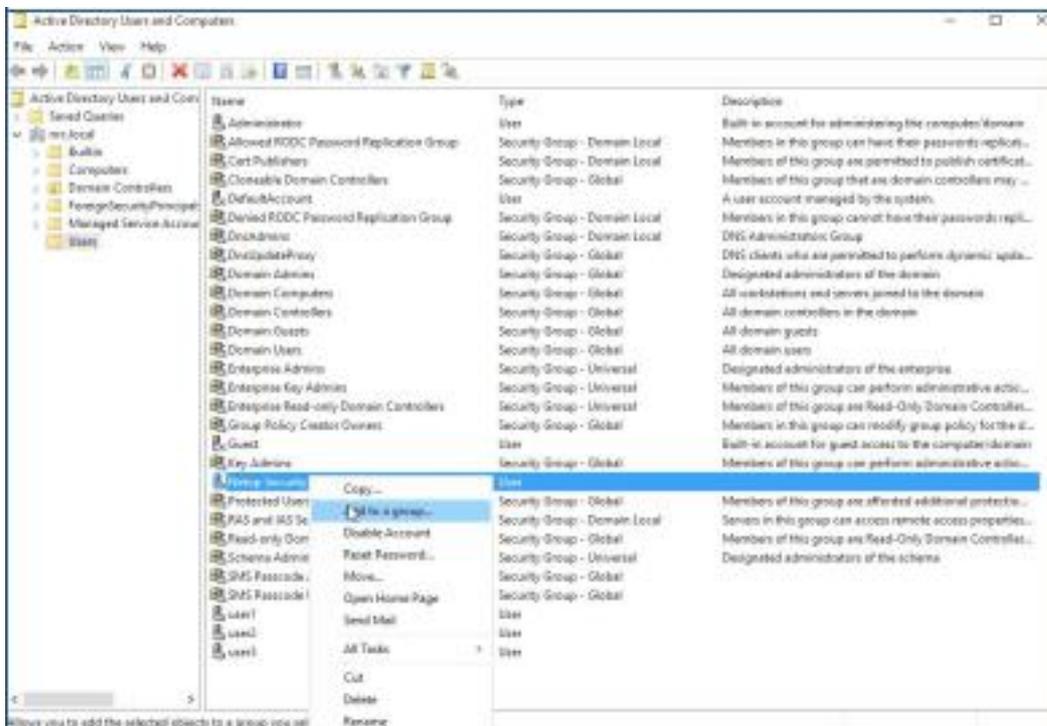
2. In the Select Groups dialog box, search for the group name by entering the name in the **Enter the object name to select** field and clicking **Check Name**.
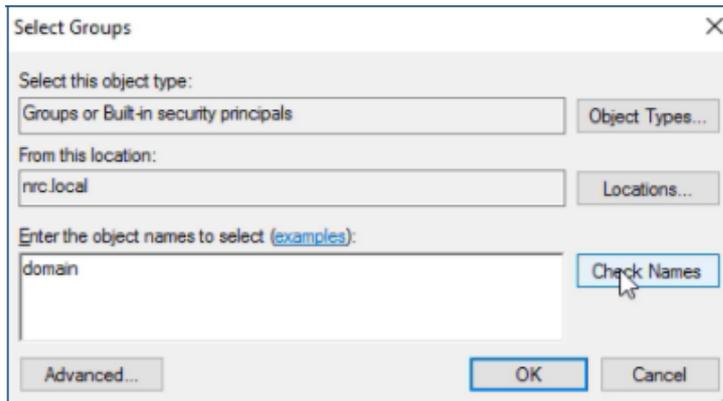
3. Click on **OK**.

4. If multiple group names are found, select **Domain Admins**.

5. Click **OK**. The selected group is displayed in the Select Groups dialog box:
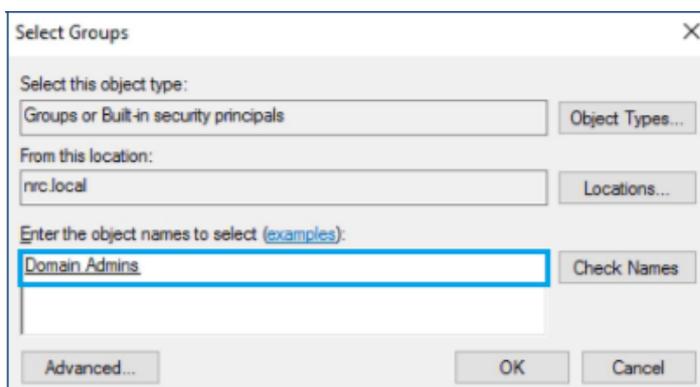
6. Click **OK**. The selected domain account was granted administrative privileges.

## 1.2 SQL setup

1.2.1 Add the domain account user to the SQL DB

1. In SQL Server Management Studio, open Object Explorer and expand the Security folder.
2. Right-click the **Logins** folder and click **New Login...**.
3. Search for the domain account user and make sure to select Windows authentication.
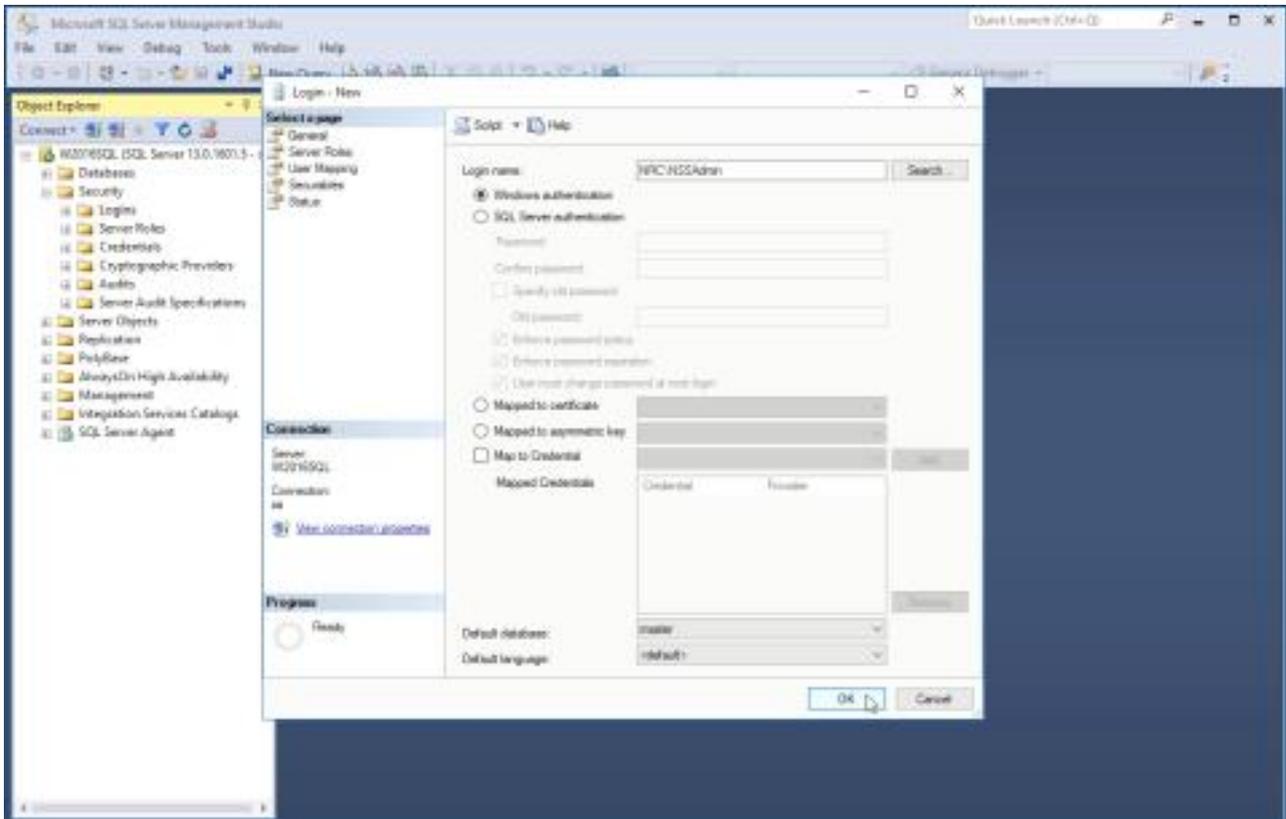
4. Click **OK**.

1.2.2 Create the NSS DB

In the Object Explorer, right-click on the **Databases** folder and click on **New Database...** In the New Database window, type a name for the Netop Security Server database and make the domain account user the DB owner.
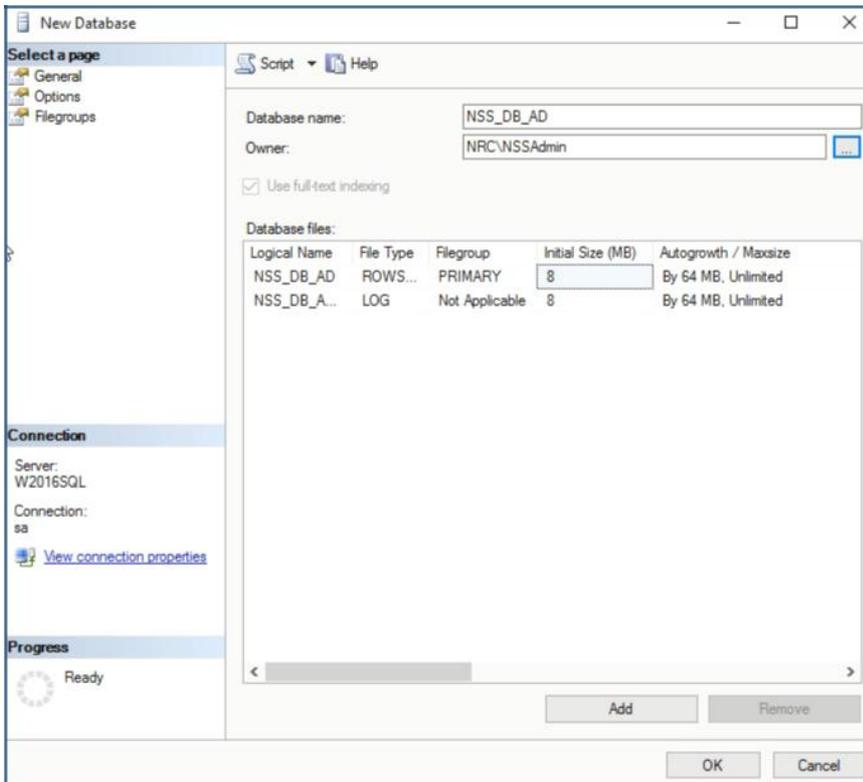
Click on **OK**.

3.   Install the Security Server

Prerequisite: add the domain admin user to the Windows Local Administrator list on the machine where you install the Netop Security Server.
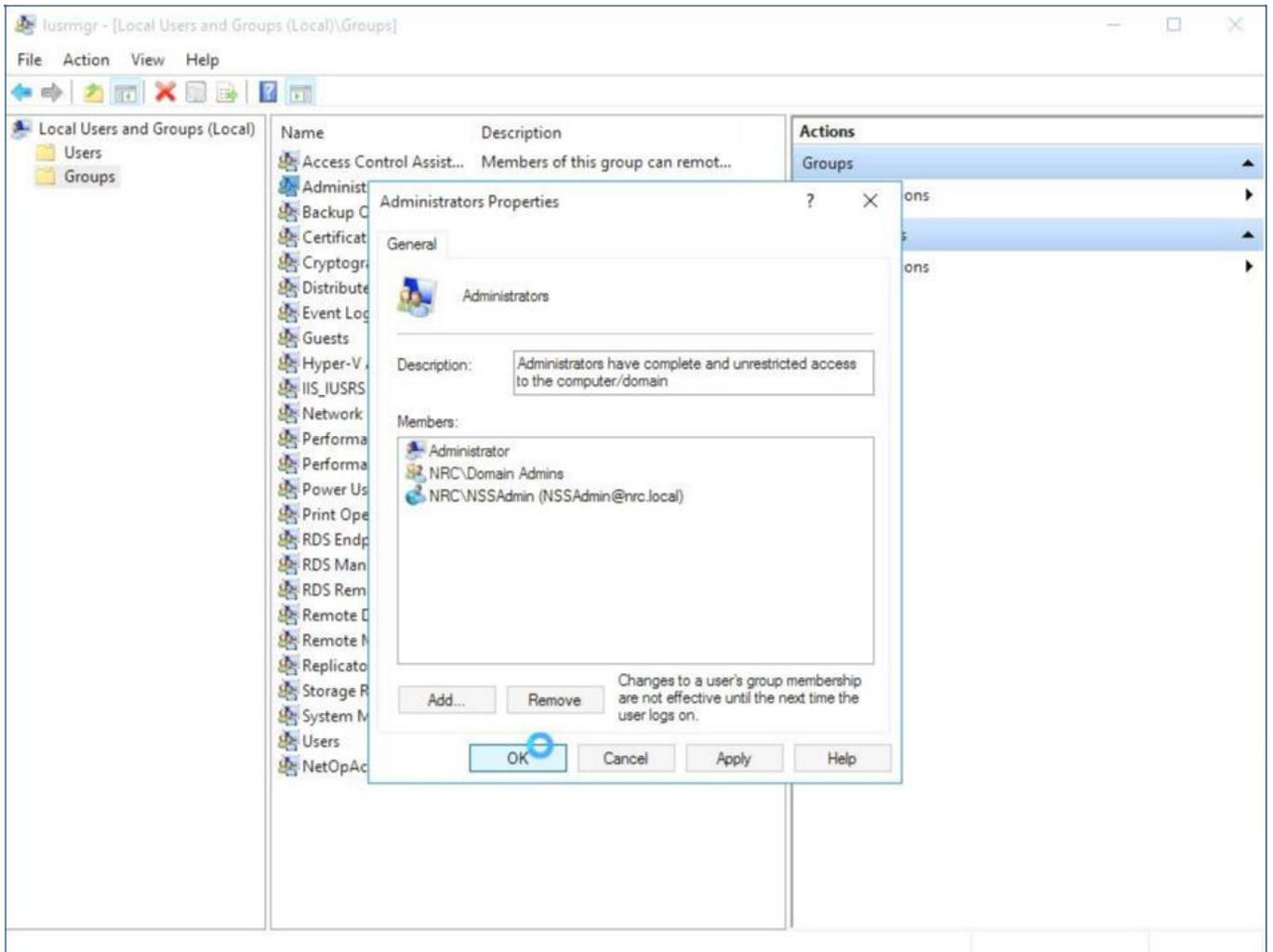
1.   Log into the Windows Server console using the account with local administrator rights (the one mapped with teh NSS DB on the SQL server).

2. Go to the folder you have saved the Netop Remote Control Security Server MSI and double-click it. The Netop Security Server – Setup is displayed.

3. Click on **Next**.
4. Accept the Netop End-User License Agreement.
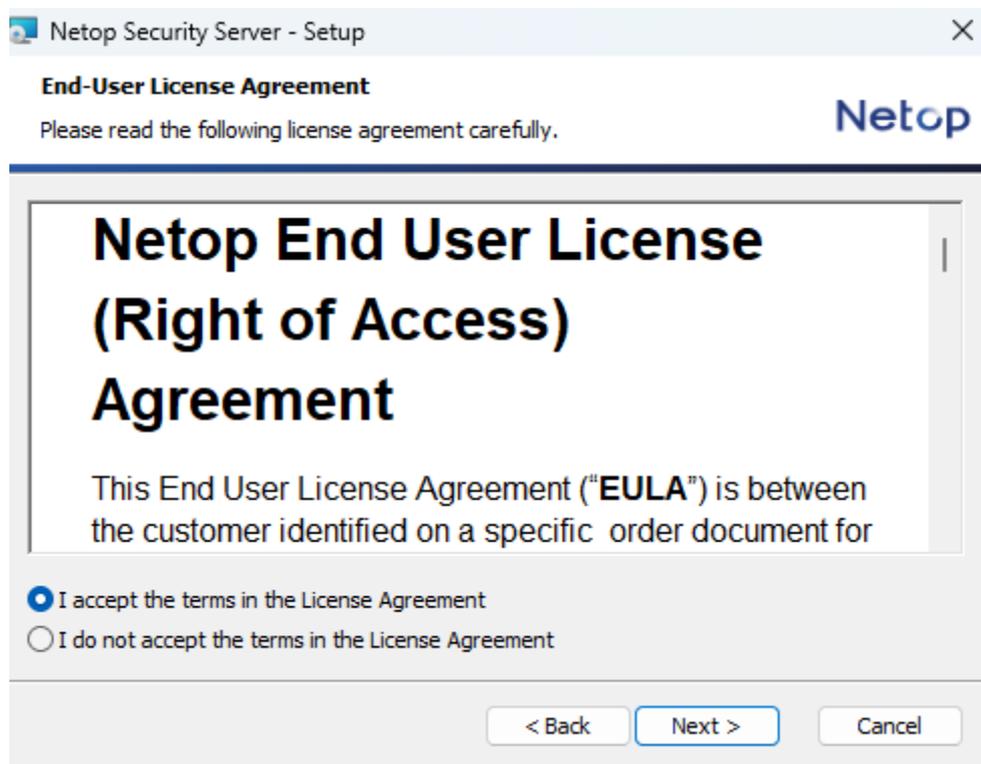
5. Click on **Next**.

6. Specify the username, organization and the Netop Security Server Serial Number (sometimes referred to as the License Key).

7. Click on **Next**.

8. Select the **Typical** setup type.

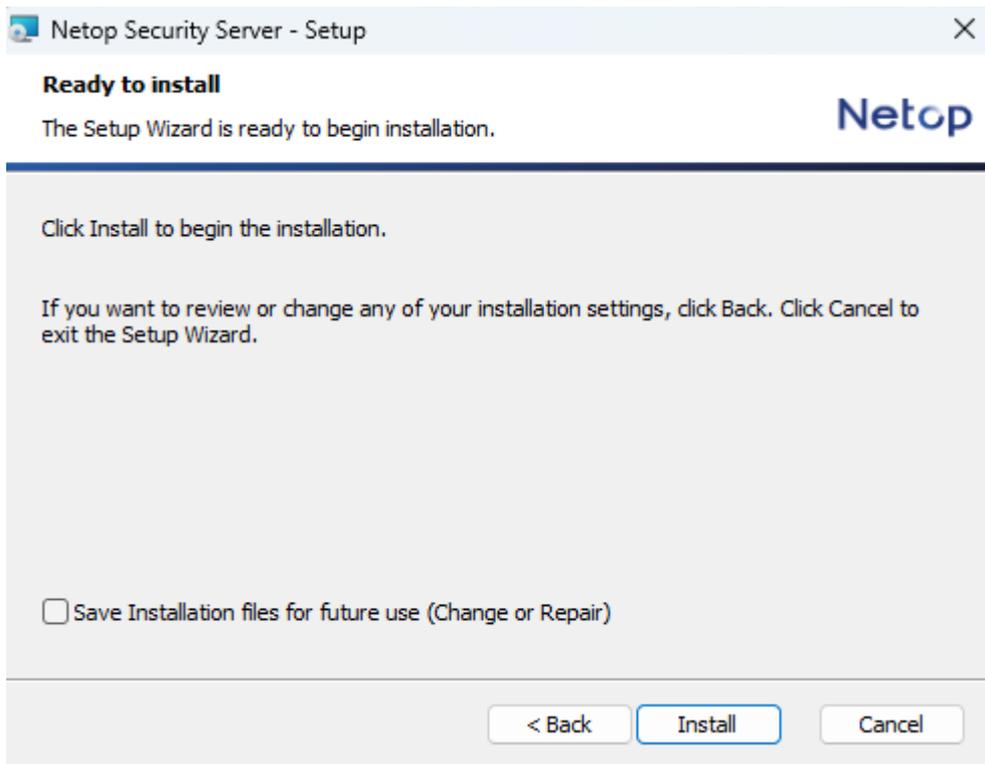Some Netop features might require a restart of the Netop service or the computer.
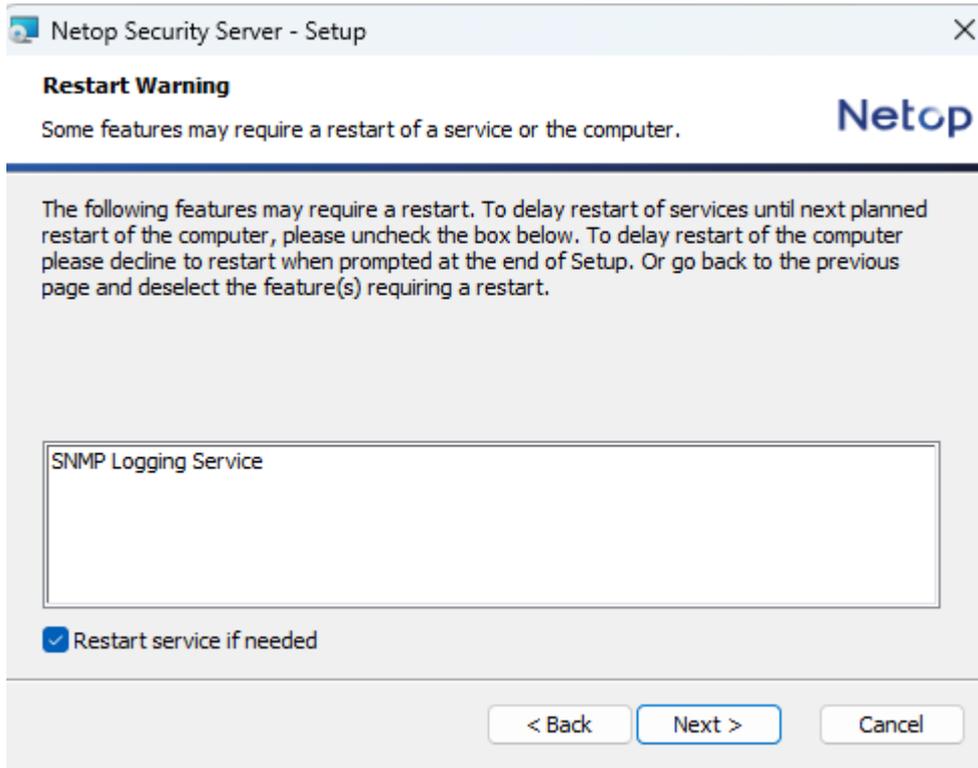
9. Make sure that the **Restart service if needed** option is checked.
10. Click on **Next**.
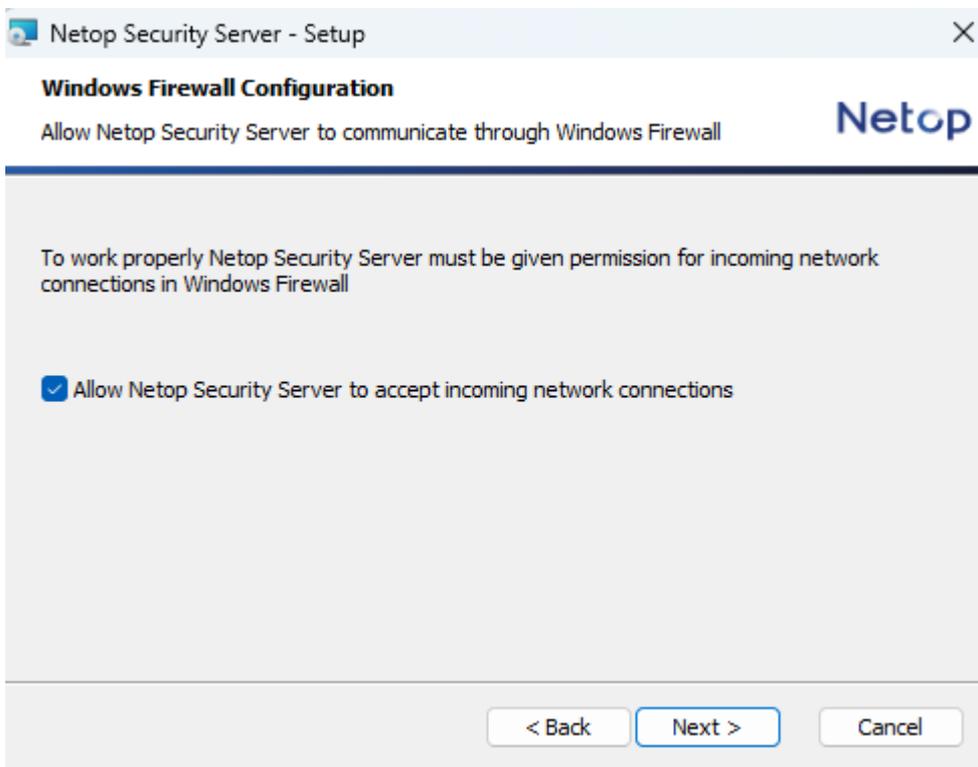
11. Make sure that the **Allow Netop Security Server to accept incoming network connections** option is checked.

12. Click on **Next**.

Optionally, you can choose to **Save Installation files for future use (Change or Repair)**.

13. Click on **Install**.

IMPORTANT: Uncheck the **Launch the Netop Security Server Product** checkbox.
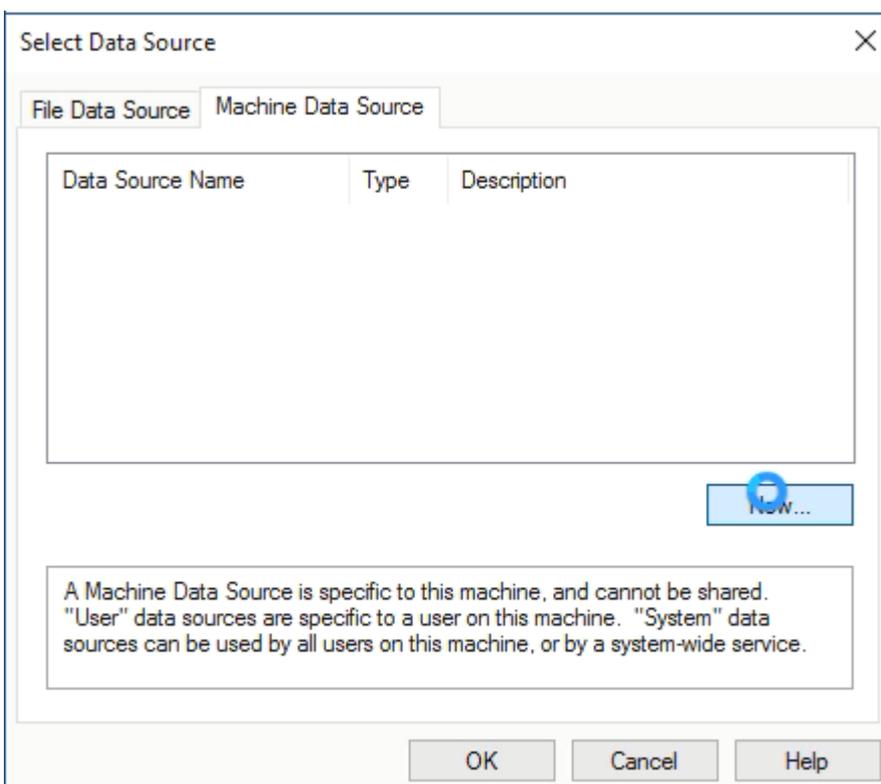
15. Click on **Finish**.

Configure the Security Server

1. From the Windows desktop go to the Start > **All Programs** > **Netop Remote Control** and run as administrator the **Security Manager**. The Netop Security Manager Setup Wizard will be displayed.

2. In the Logon to Database dialog box, make sure that the **Create local test database** option is not selected and click **Change**.
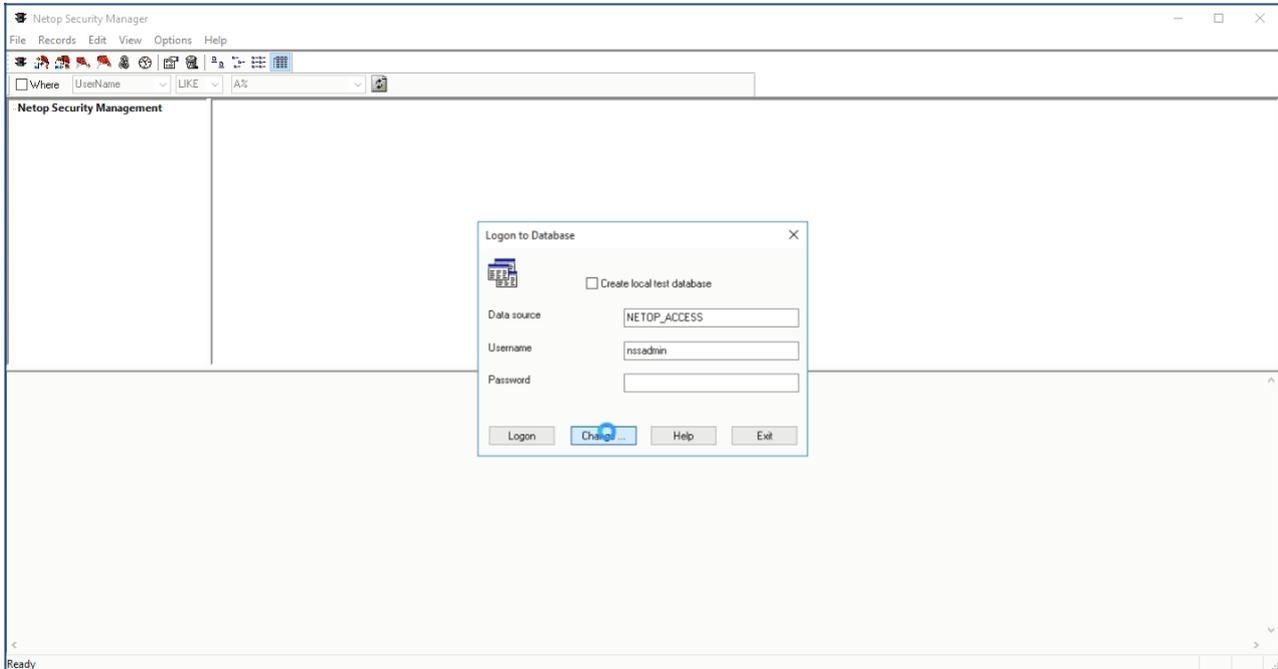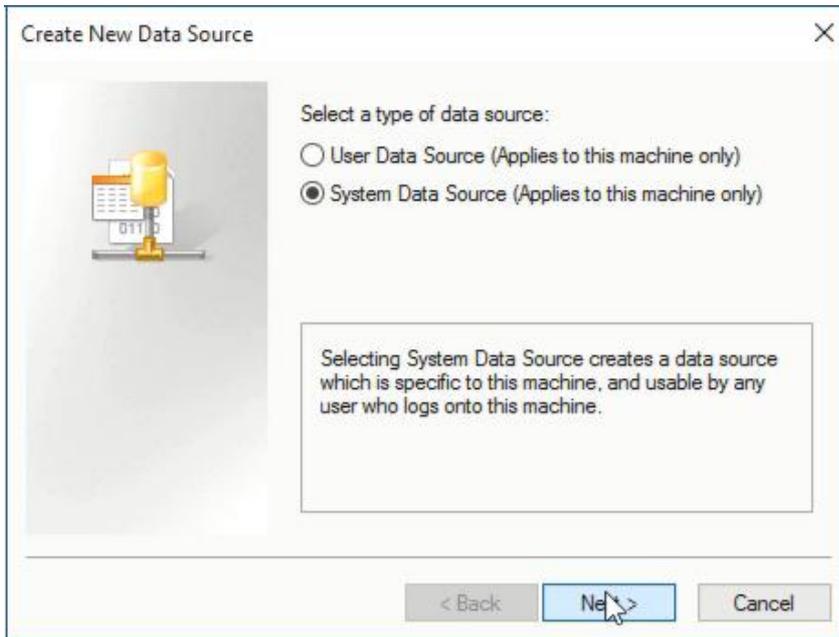

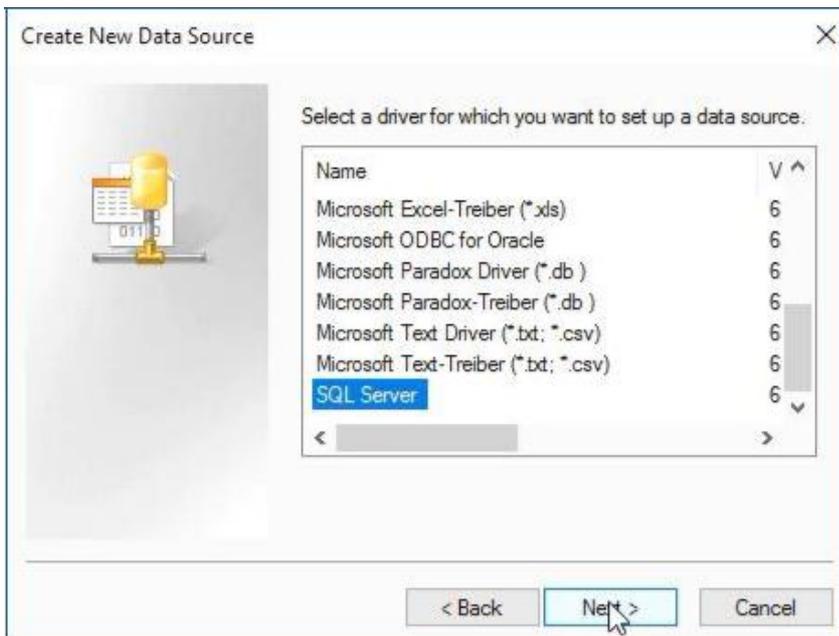   The Select Data Source dialog box will be displayed.

3. Select the **Machine Data Source** tab.

4.   Click on **New**.

5.   In the Create New Data Source dialog box, select **System Data Source (Apply to this machine only)**.

6.   Click on **Next**.

7.   Select **SQL Server** as driver for which you weant to set up a data source.
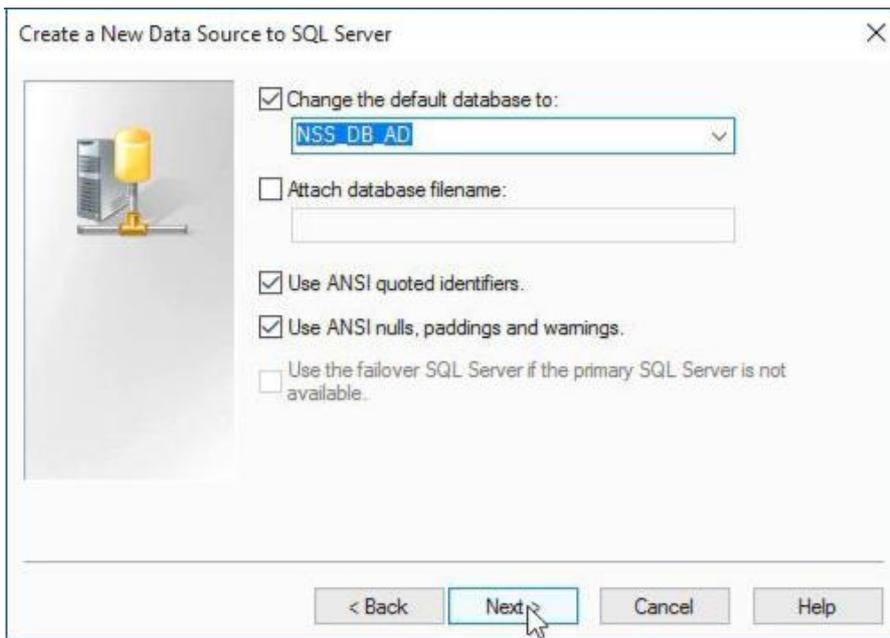

8.   Click on **Next.**

9.   Click on **Finish**. The Create a New Data Source to SQL Server wizard will be displayed.

10. Type a name for the data source and from the **Server** drop-down list select the MS SQL server you will connect to:

Click on **Next**. Make sure that the following options are selected:
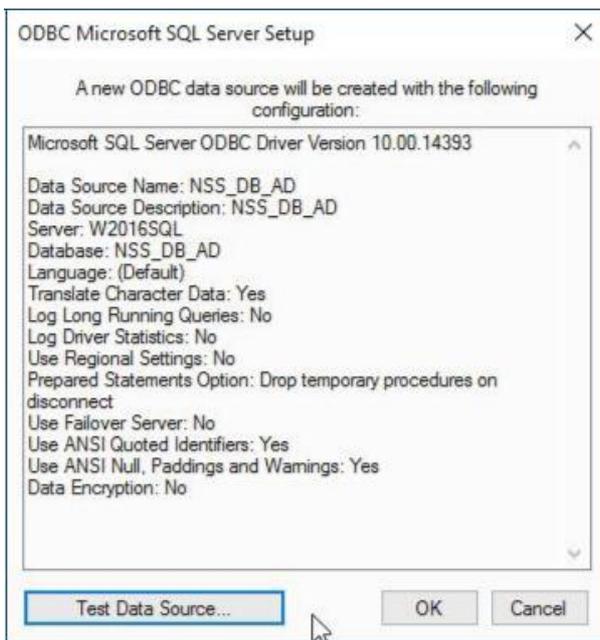
- With Windows NT authentication using the network login ID
- Connect to SQL Server to obtain default settings for the additional configuration options.

11. Click on **Next**.
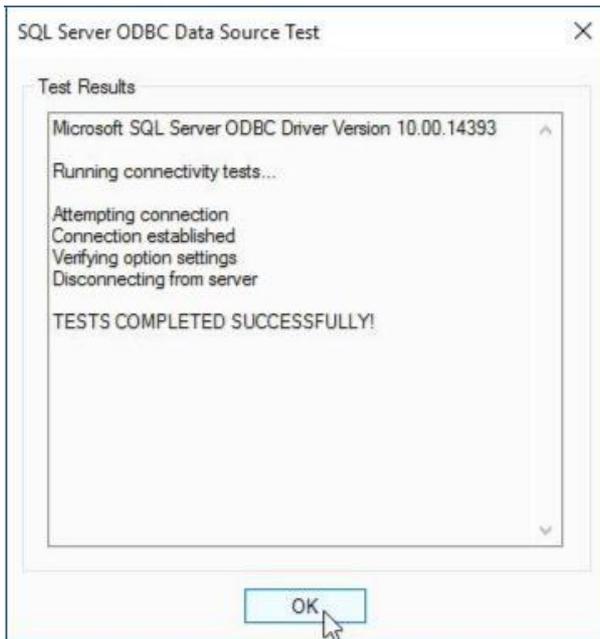
12. Select **Change the default database to** <the Netop Security Server DB, as defined in the SQL Server>:
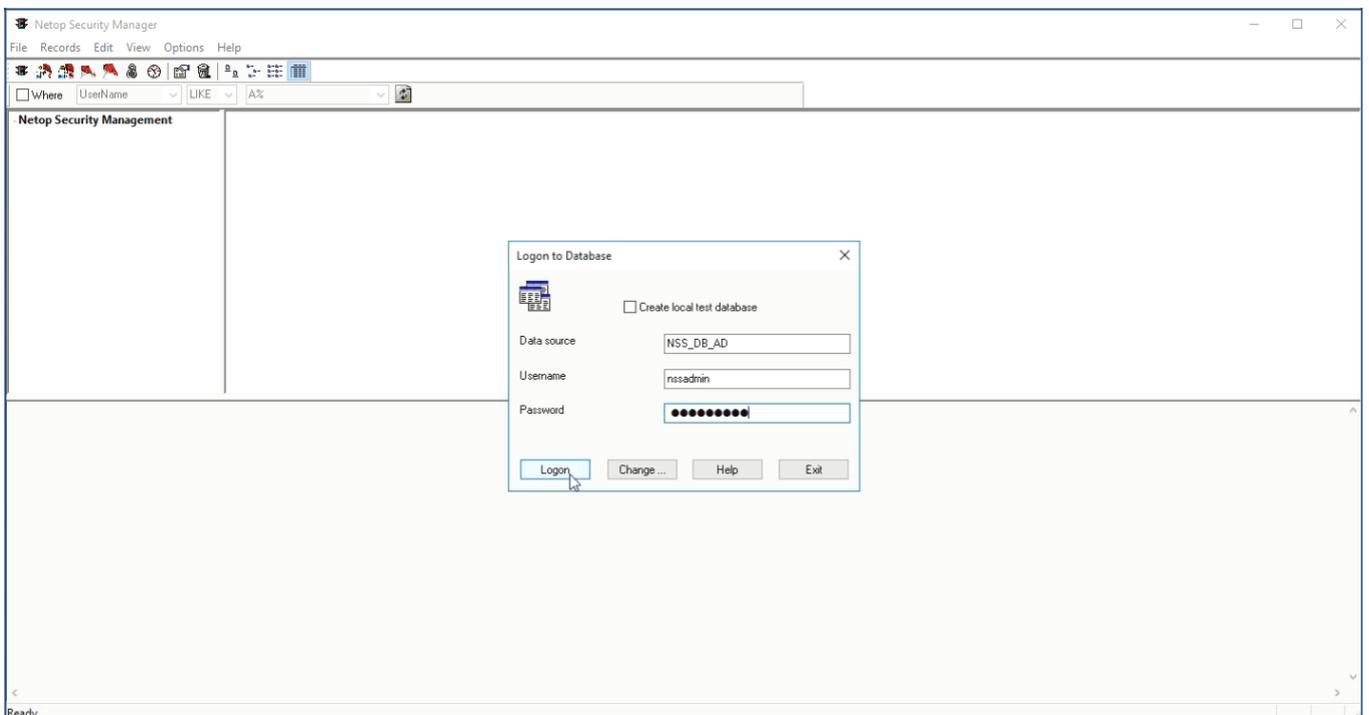
13. Click on **Next.**

14. Click **Finish**. The ODBC Microsoft SQL Server Setup dialog box will be displayed:

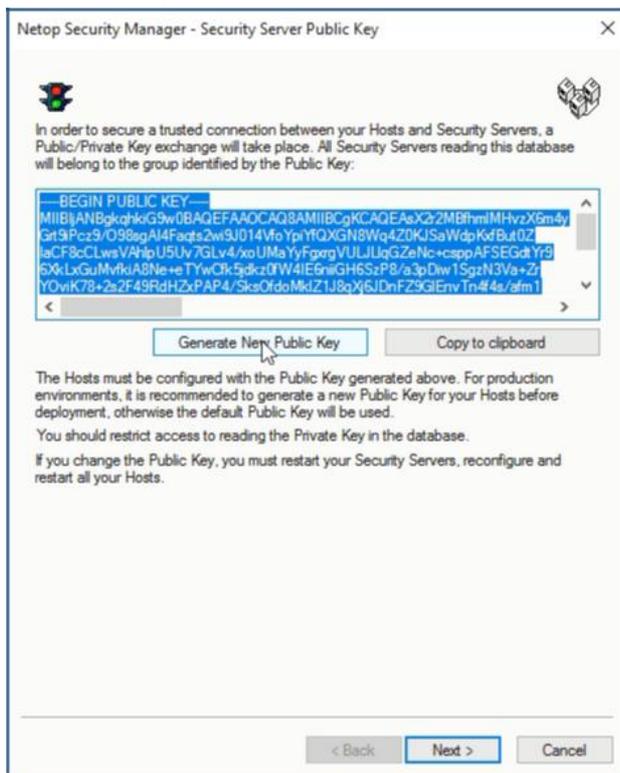15.   Test the data source. If successful, click **OK**.

16.   Click **OK** three times to reach the Logon to Database dialog box.

16. Enter the password and click **Logon**.

17. In the Netop Security Server – Security Server Public Key dialog box, click to **Generate New Public Key**.

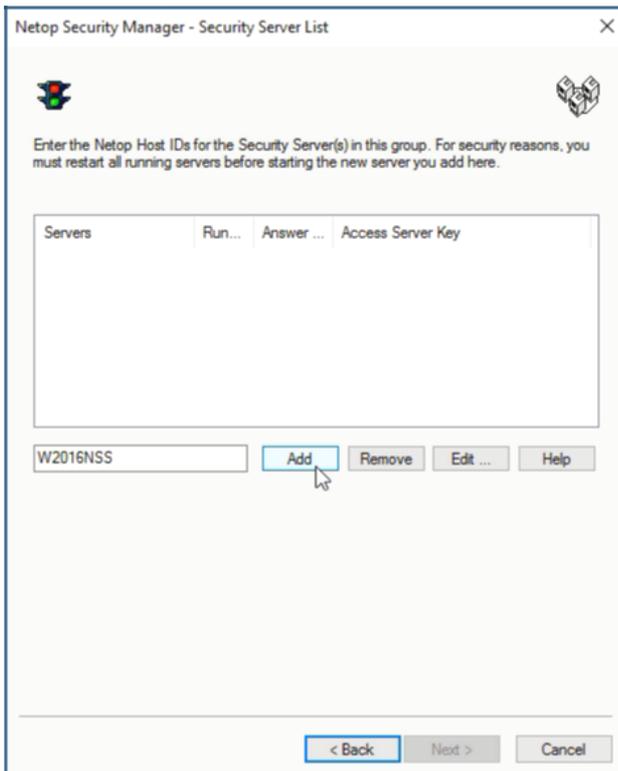18. Click on **Generate New Public Ke**y.

19. Select the public key generated then click **Copy to clipboard**.

20. Click on **Next** twice.

21. In the **Group Name (Private)** field enter your domain and re-enter it in the **Confirm Group Name** field.
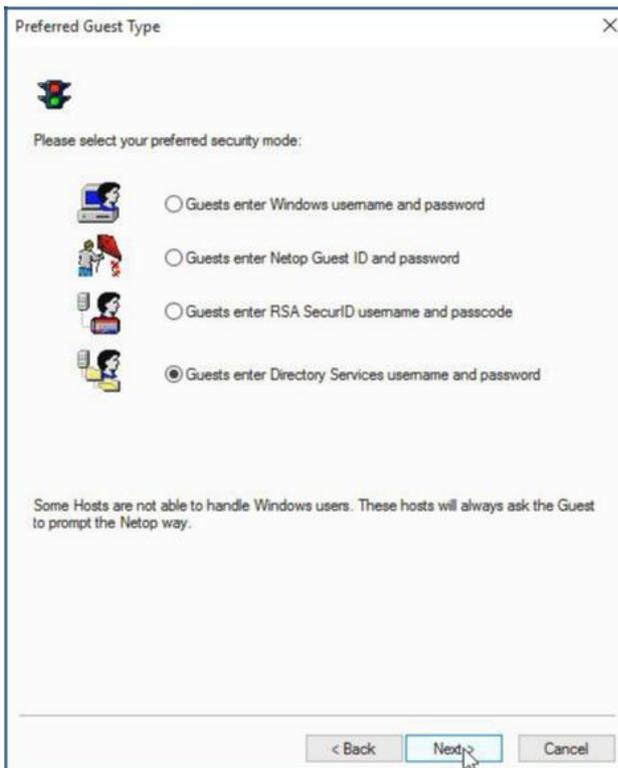

22. Click **Next**. The Security Server list will be displayed. The name of your Security Server will appear in the server field.
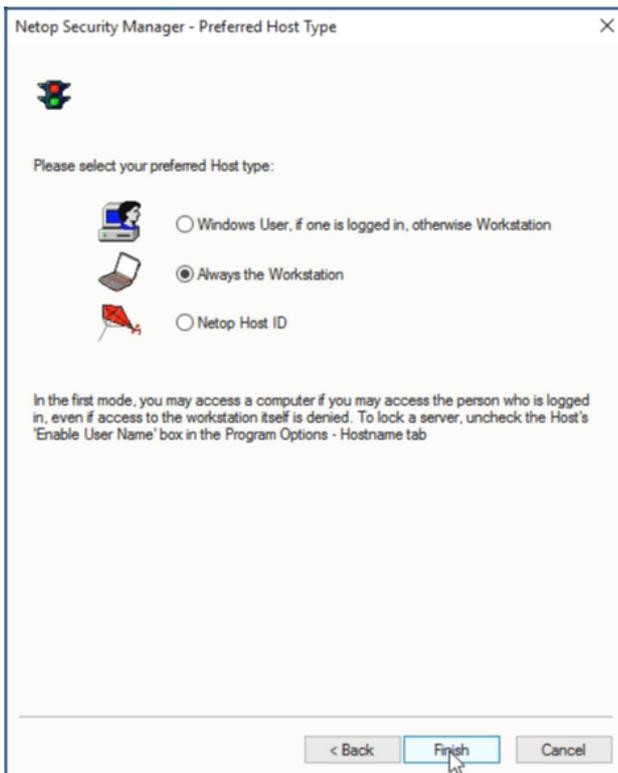
23. Click **Add** to add your Security Server to the database, then click **Next**.

24. Select **Guests enter Directory Services username and password**.

25. Click **Next** and select **Always the Workstation**.

26. Click **Next**, then close Netop Security Manager.

Open a txt file and paste the Security Server Public Key you have previously saved to clipboard.

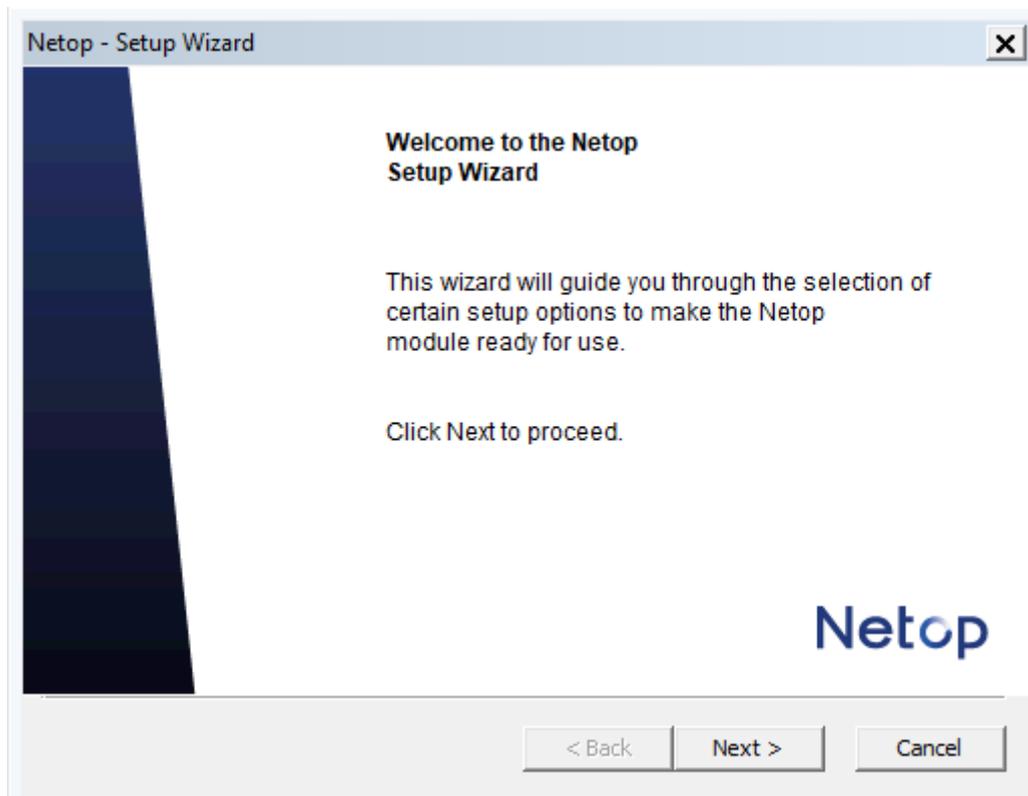# Launch the Security Server module and run the setup wizard

1. From the Windows desktop go to the Start menu and select **All Programs** > **Netop Remote Control** > **Security Server**.

It is required that you select to **Run Host as specific user** by checking the **Enable** box.

2. Enter Windows credentials that have been added to the Local Administrators Group on this server.
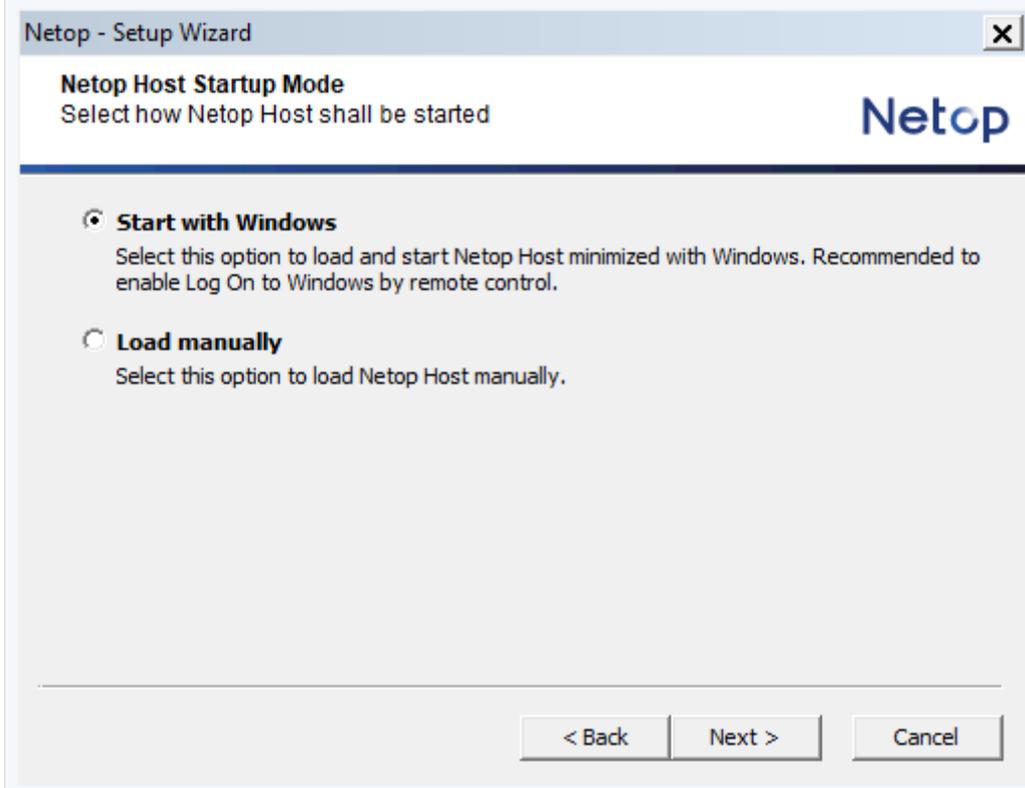
Run As

In order for the Netop Security Server to query a Windows server for users and groups you need to enter a valid user name, password and domain that gives the Host (Security Server) adequate rights to do so.

Run Host as specific user

☑ Enable

User name: LocalAdminstrator

Password: ●●●●●●●●●●

Domain: YourDomain

☐ Automatically change to random password every week

| Ok | Cancel | Help |

3. Click **OK**. The Netop Security Server Setup Wizard will be displayed.

Netop - Setup Wizard   ✕

Welcome to the Netop Setup Wizard

This wizard will guide you through the selection of certain setup options to make the Netop module ready for use.

Click Next to proceed.

Netop

| < Back | Next > | Cancel |

4.   Click **Next**.
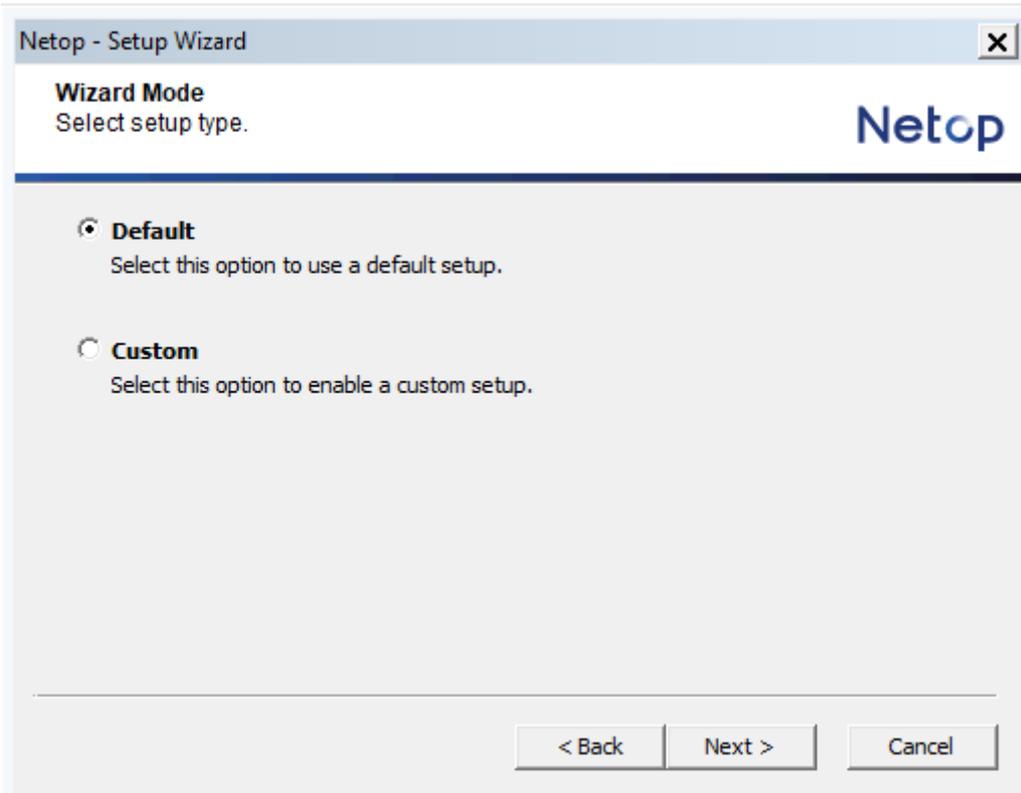
5. Make sure that the **Default** option is selected.

6. Click on **Next**.

7. Make sure that the option to **Start with Windows** is selected.
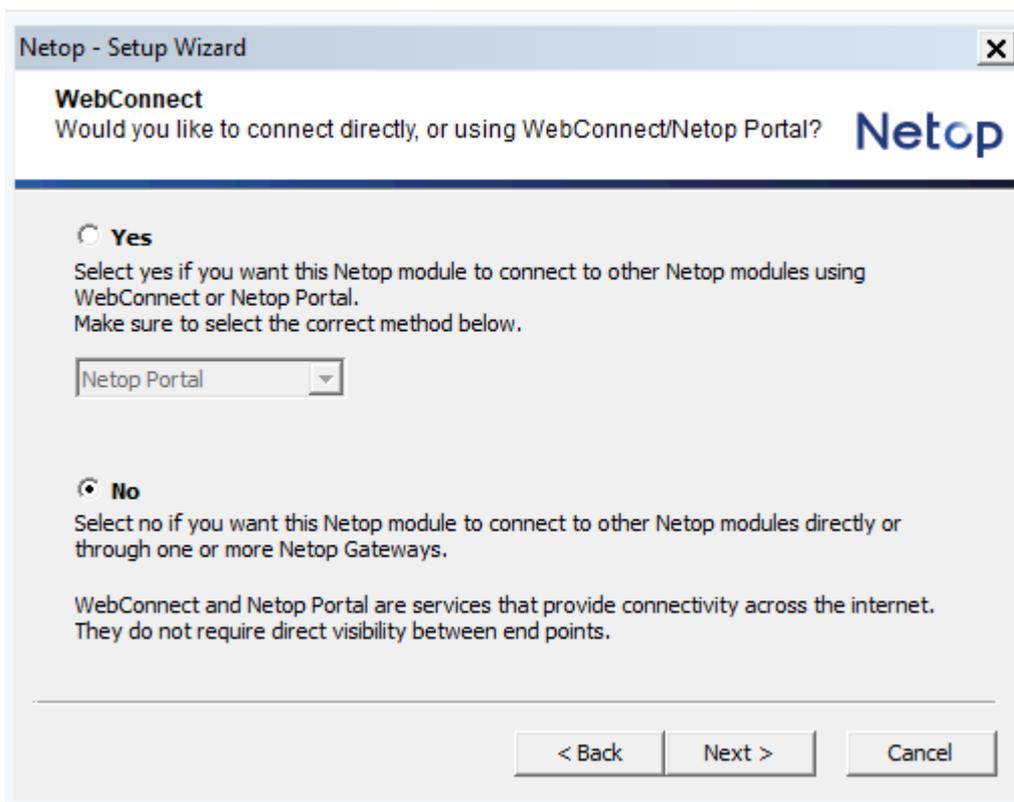
8. Click on **Next**.

9. Enter a secure password that can be used later to remote control the Security Server from your Netop Guest. Make sure to confirm the password.
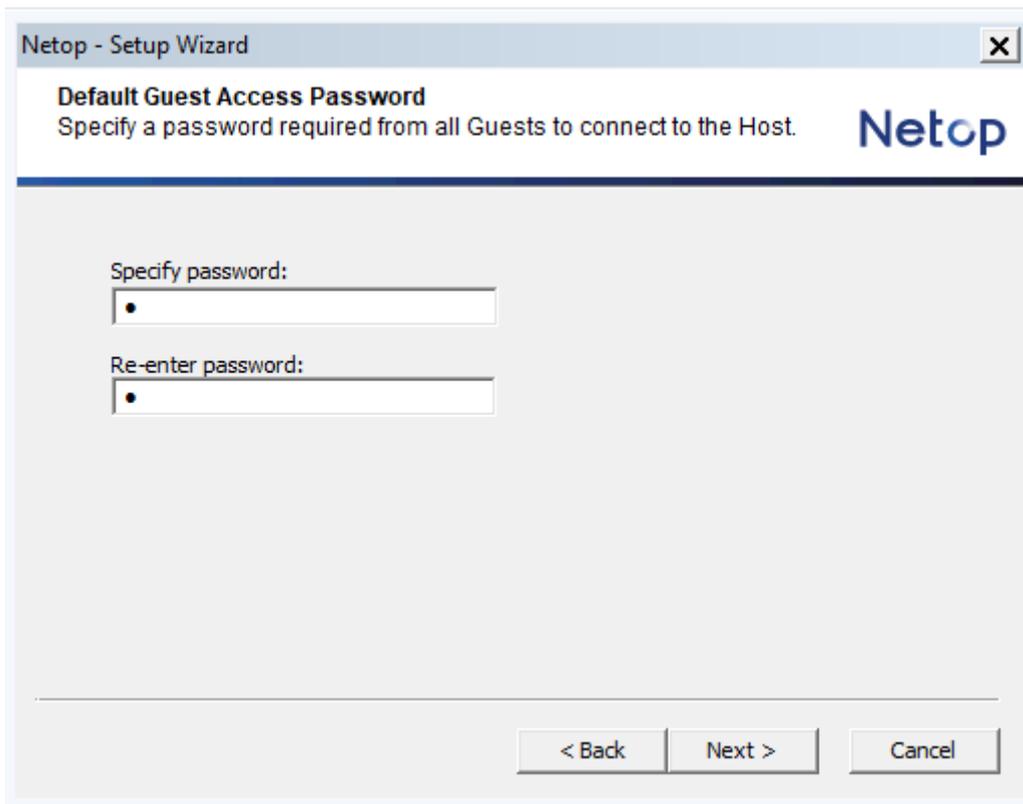
10. Click on **Next**.

11. Make sure that you choose not to configure WebConnect by selecting **No**.

12. Click on **Next**.

13. Select the **No, I do not want to register my Netop License now** option.
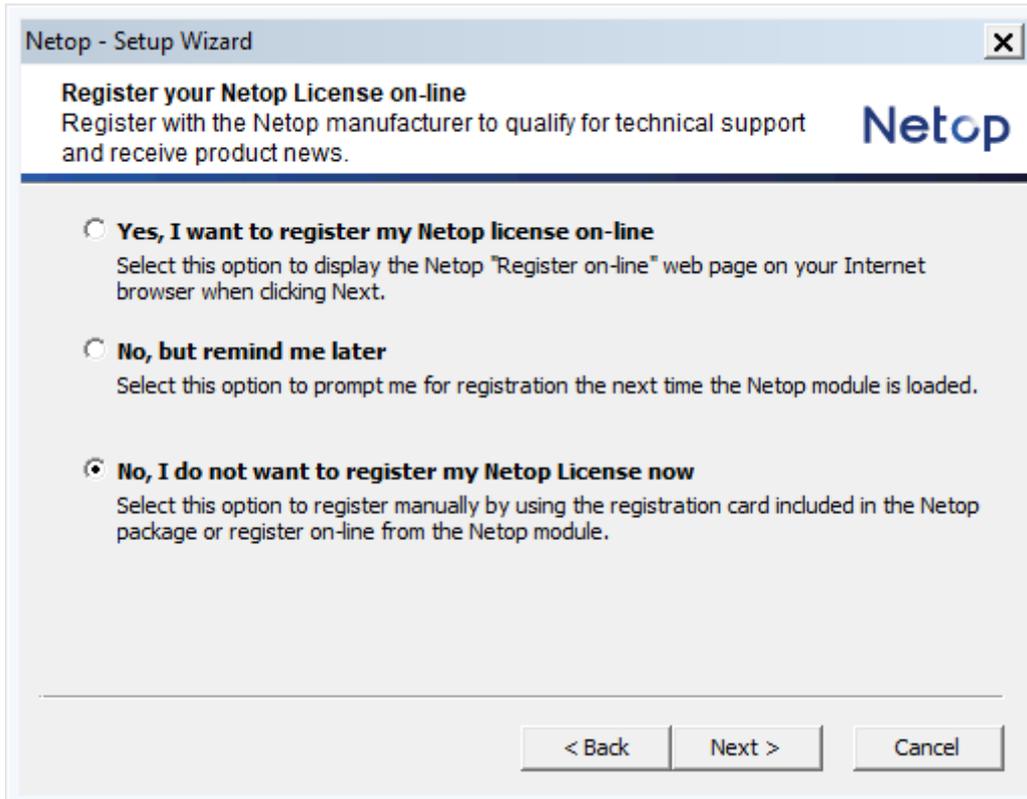
14.   Click on **Next**.
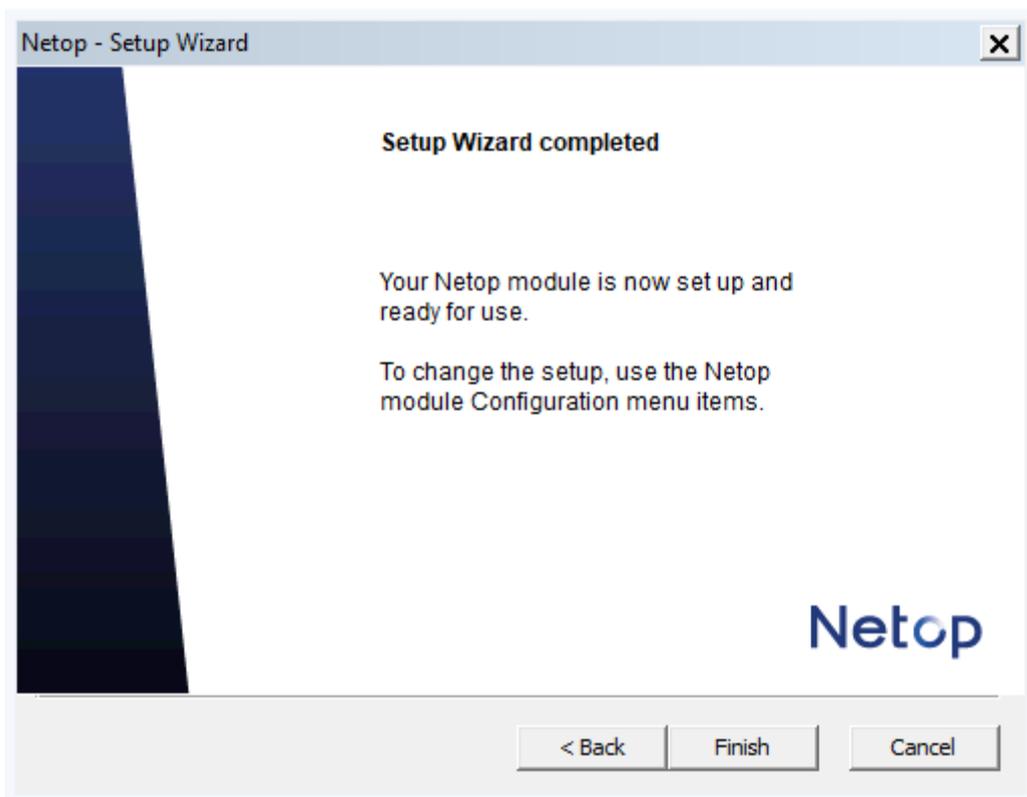
15. Click on **Finish**.

16. The Netop Security Server is now running. The Netop Security icon appears in the system tray.

17.   Right click on the icon and select **Restore**.
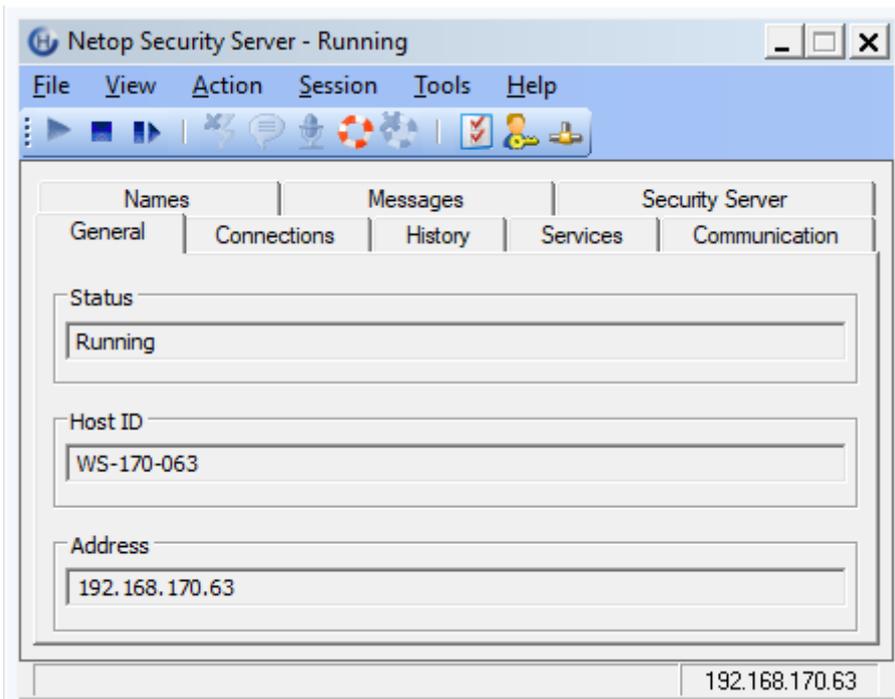
18.   Go to the **Tools** menu and select **Security Server Setup**. The database setup will be displayed.
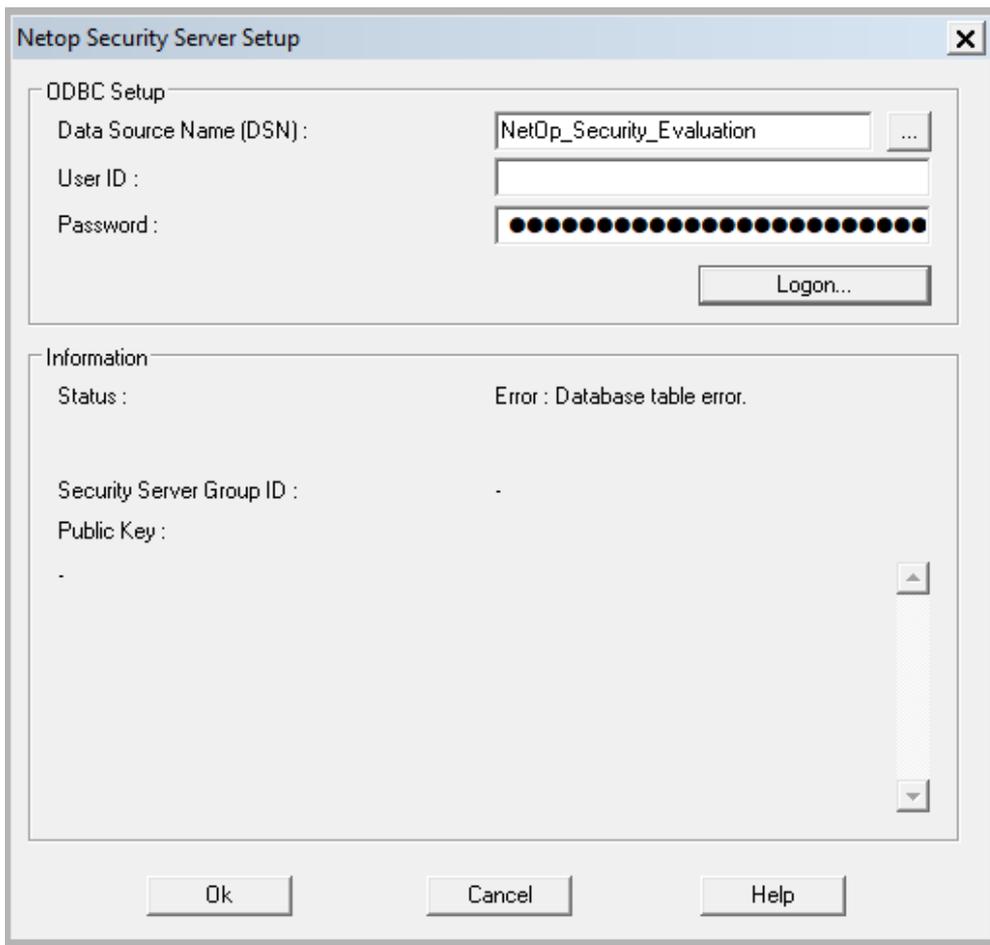
In the upper-right corner of the page, click the ellipsis button. The Select Data Source page will be displayed from where you will select the desired database.
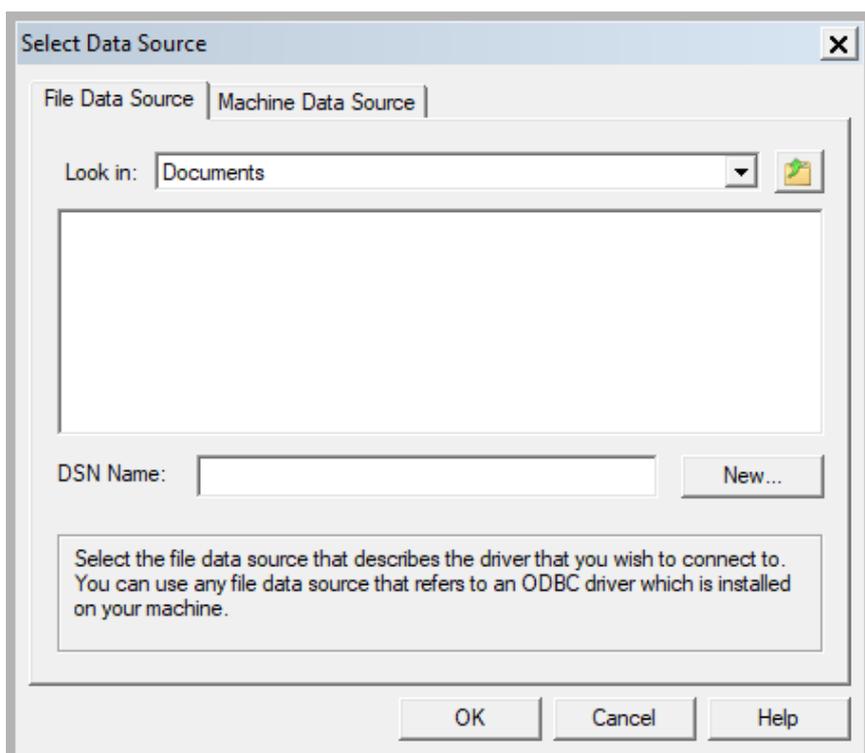
20. Click the **Machine Data Source** tab, select the **NetOp_Security_Evaluation** data source name and click **OK**.

21. No need to enter credentials; just click **OK**.

22. Click on the **Logon** button.

23. Wait until you see the Information Status: "Security Server running."

24. Click on **OK**.

25. Restart the Netop Security Server.

## Configure the Host to use Security Server

1. Open GUI of the Host you want to use with Security Server.
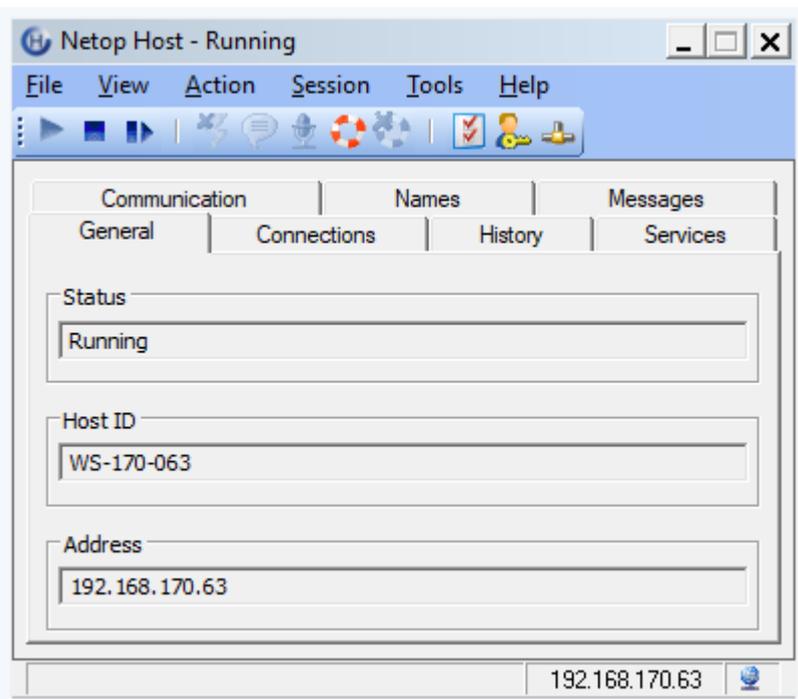
2. Make a note of the **Host ID** as it is displayed in the General tab. You might want to use this ID later when making role assignments in the Security Manager.
3. On the main menu click **Tools** and select the **Communication Profiles** option. The Communication Profile Setup will be displayed.
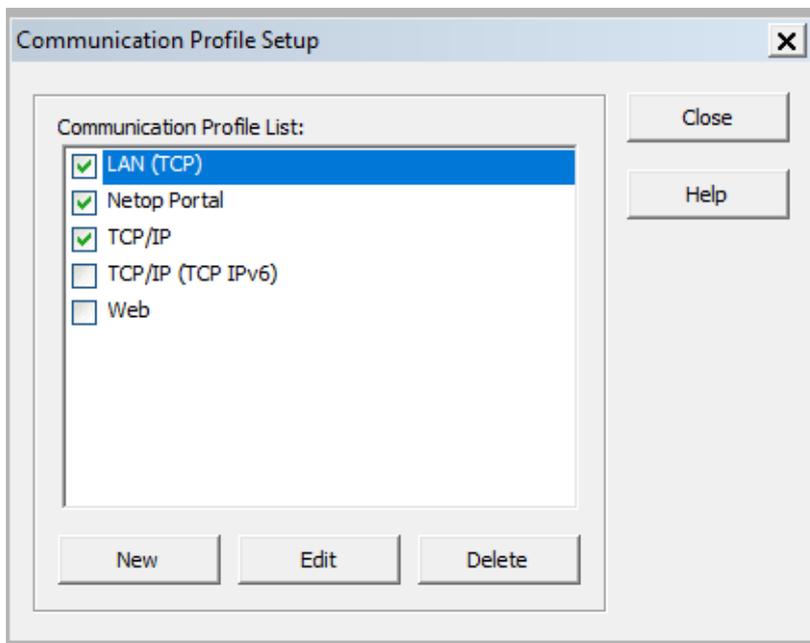
4. Make sure that the TCP/IP communication profile is selected. Click on it then click the **Edit** button.
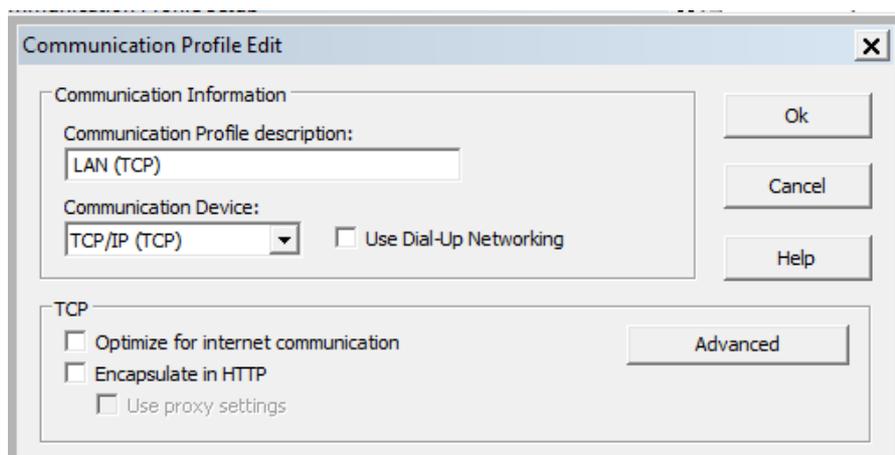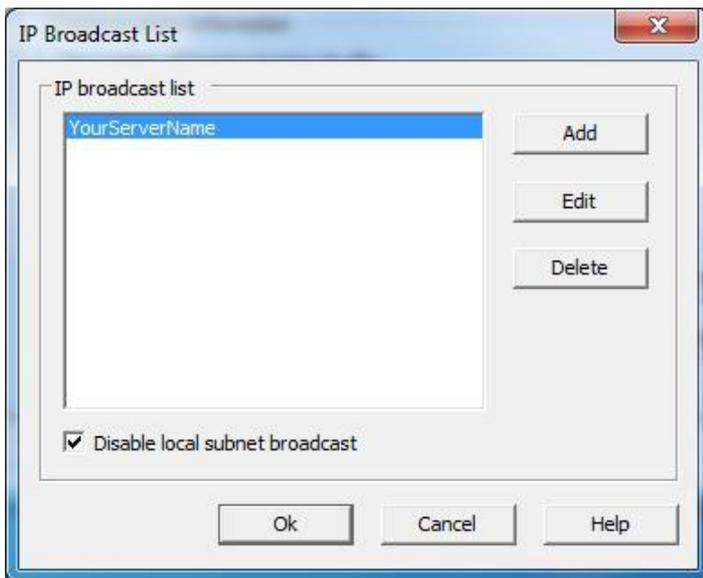

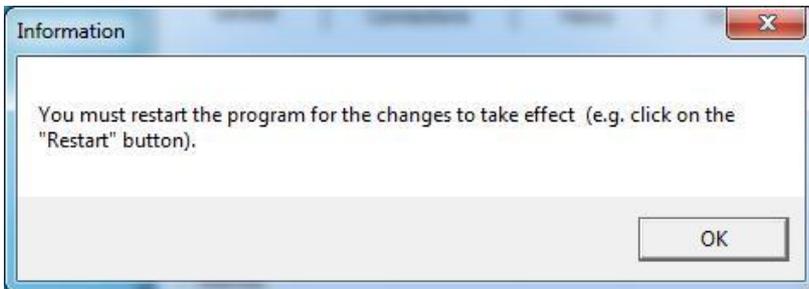5. Click the **IP Broadcast list…** button.
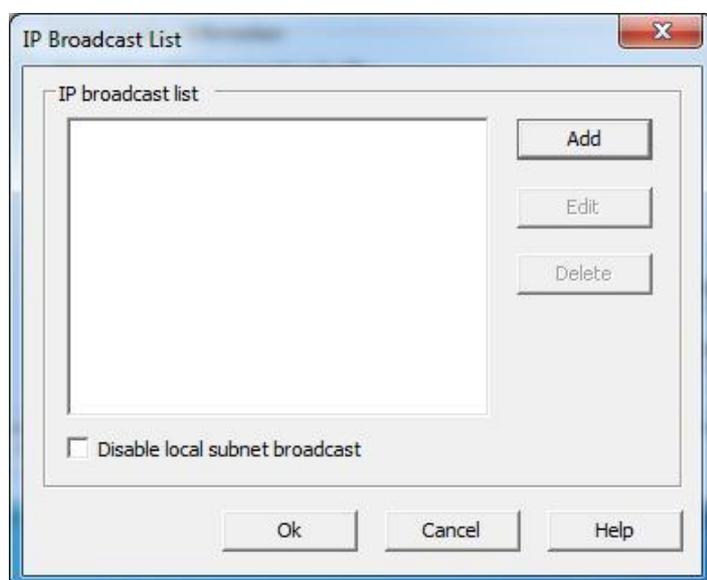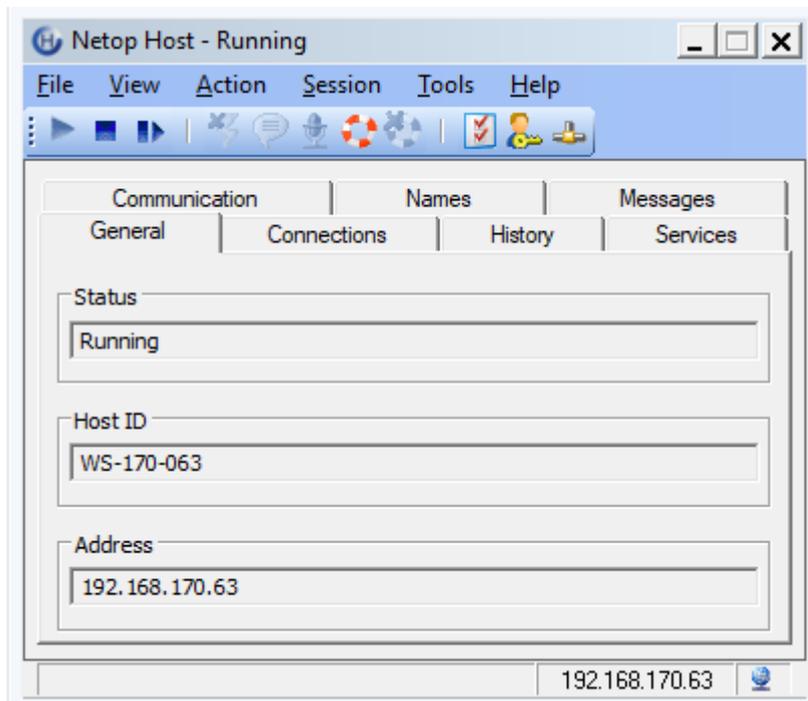

6. Click the **Add** button.

7. Enter your Security Server's **DNS name or IP address** and click **OK.**

8. Optionally, you might unselect to **Disable local subnet broadcast**.

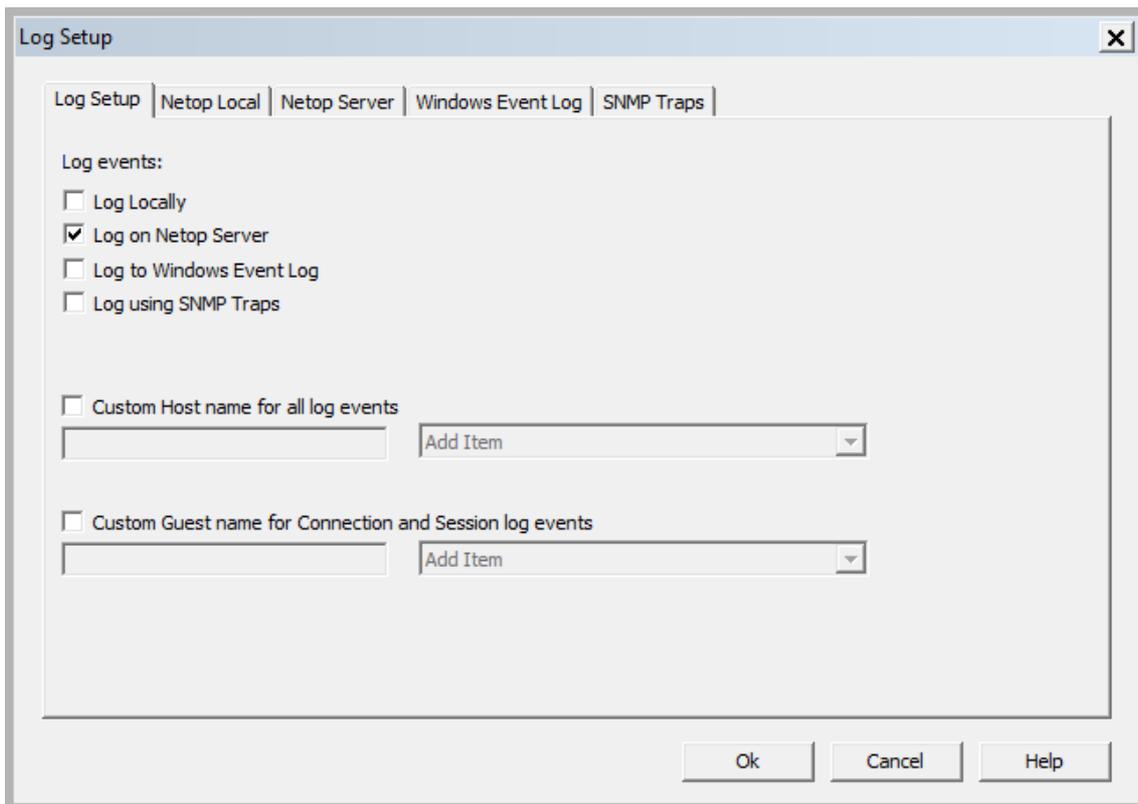9. Click on **OK** twice then click **Close**. You will be prompted to restart the Host.
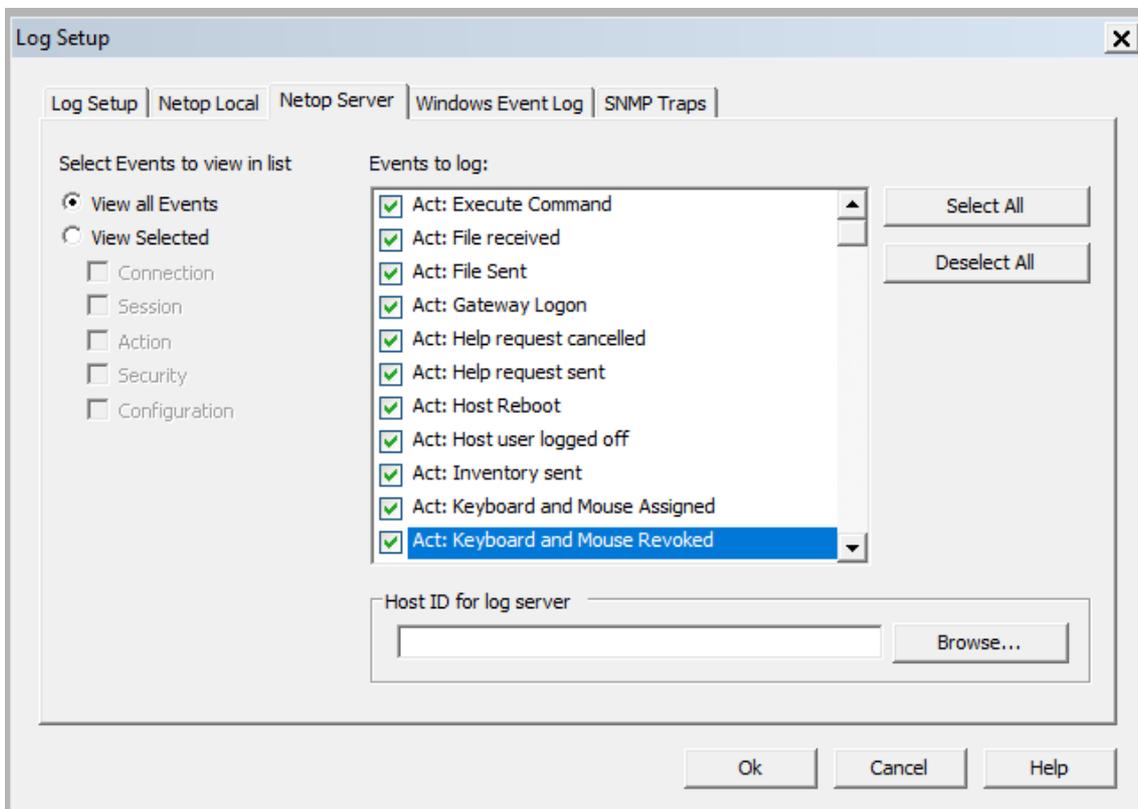

10.   Click on **OK**.

11. On the main menu, click **Actions** and select **Restart.**

12. Once the Host's status returns to running on the main menu click **Tools** and select the **Log Setup** option.
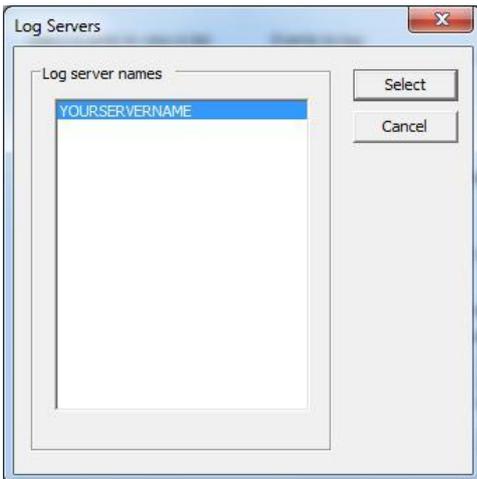

13. Select the **Log on Netop Server** option.
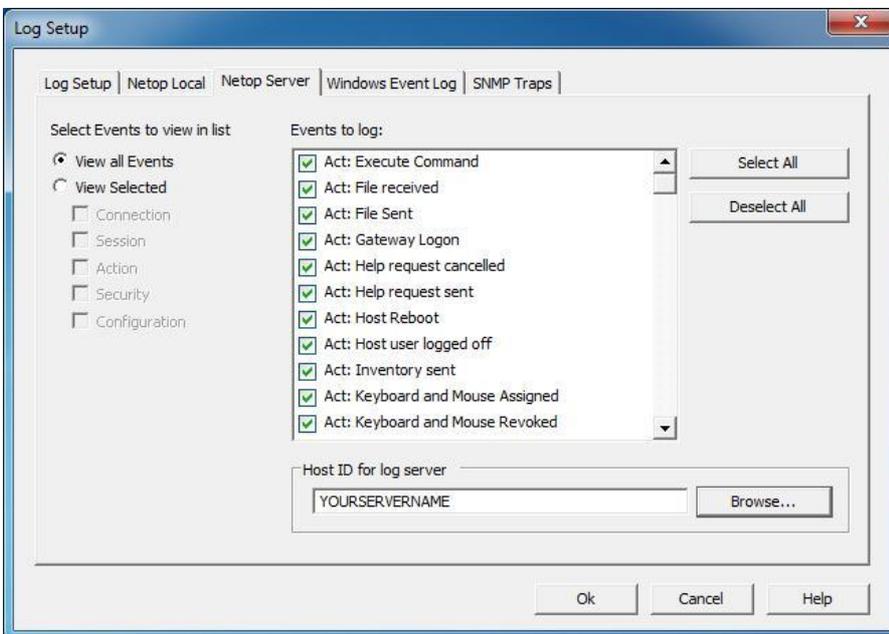14. Click on the **Netop Server** tab.

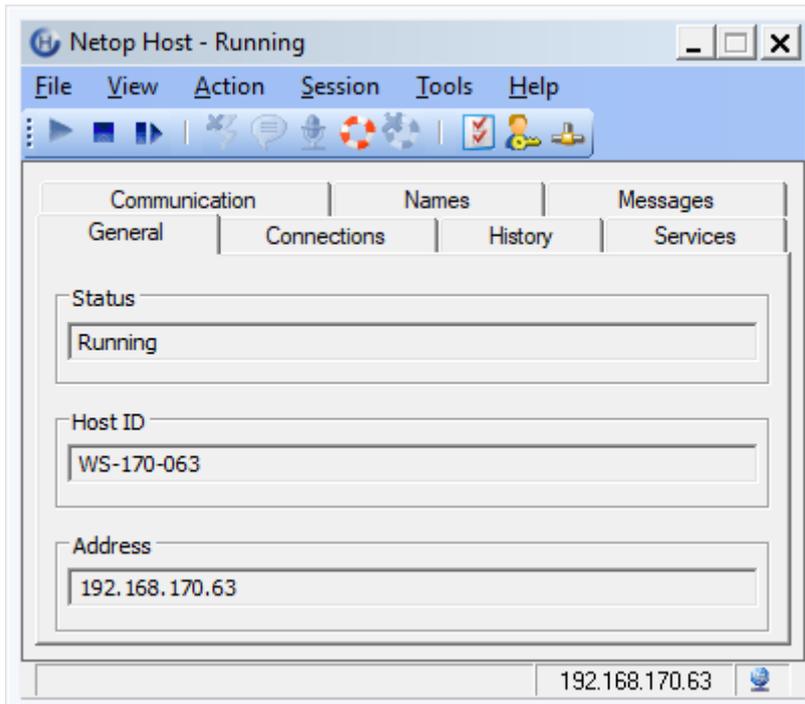15. Click the **Select All** button to enable logging of all Netop events.

16. Click the **Browse…** button. You will be prompted to wait until the Log Servers list will be displayed. Your Netop Security Server will be shown in the list.
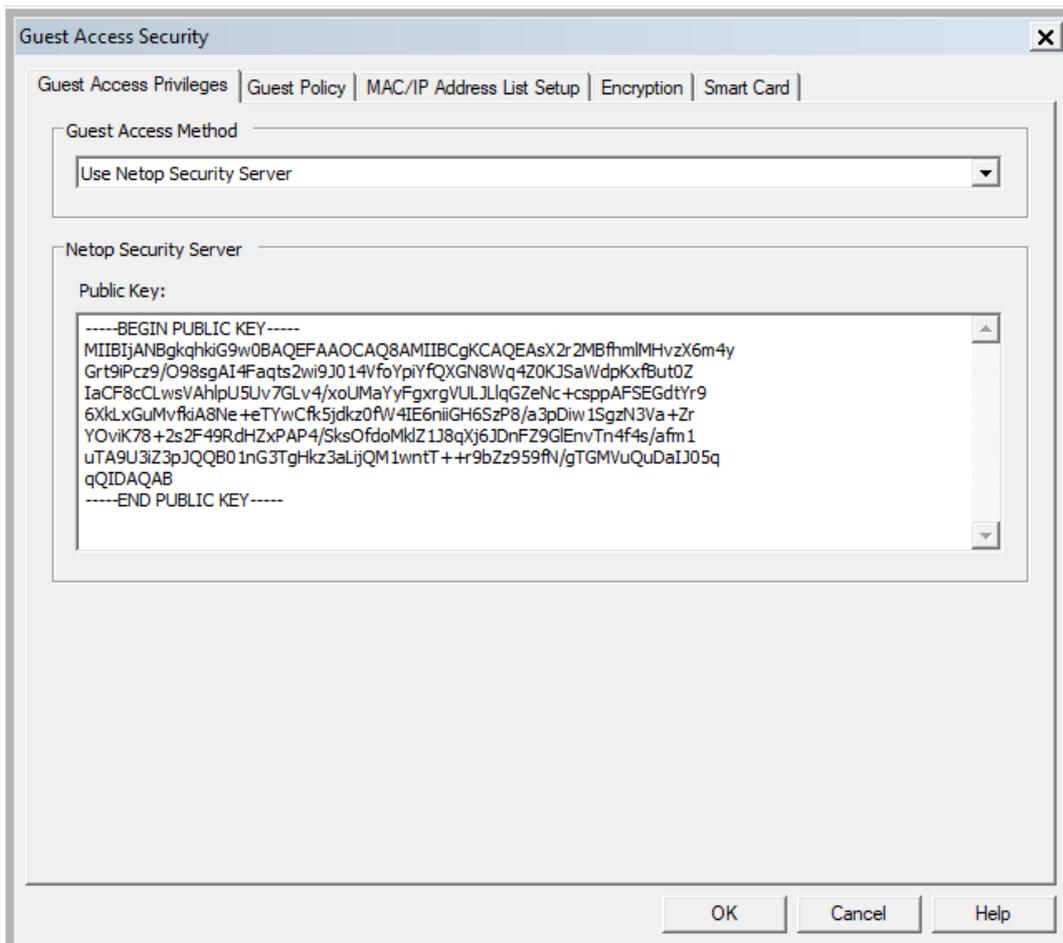

17.   Select the server name from the list and click the **Select** button.

18.　　Click on **OK**. The Netop Host is checking if the log server is available.

On the main menu click **Tools** and select the **Guest Access Security** option.

20. From the **Guest Access Method** drop-down list select the **Use Netop Security Server** option.

21. Copy and paste the Public Key from the Public Key text file that you made while setting up the Netop Security Manager.
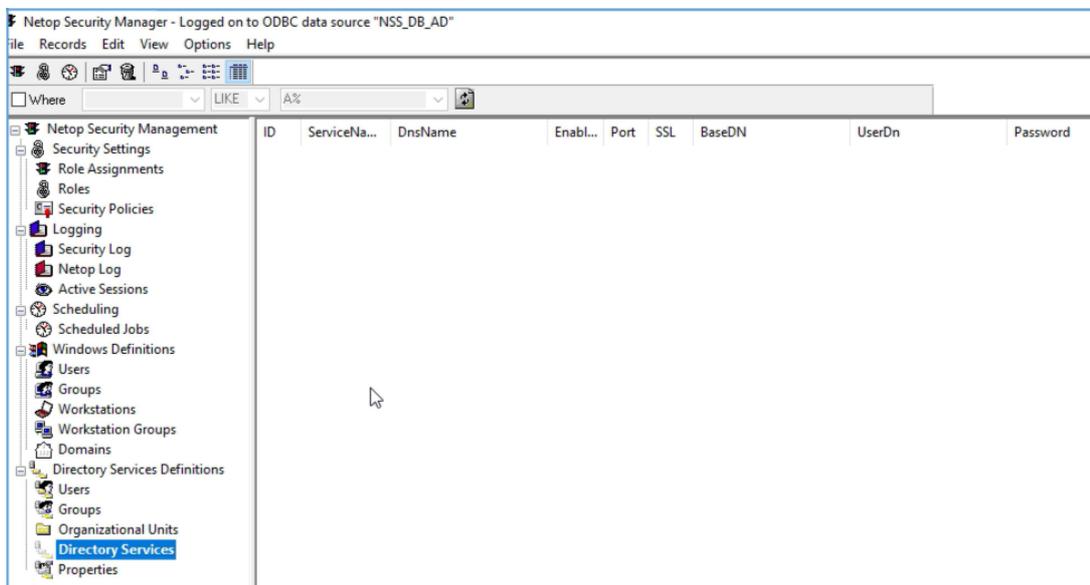
22. Click on **OK**.

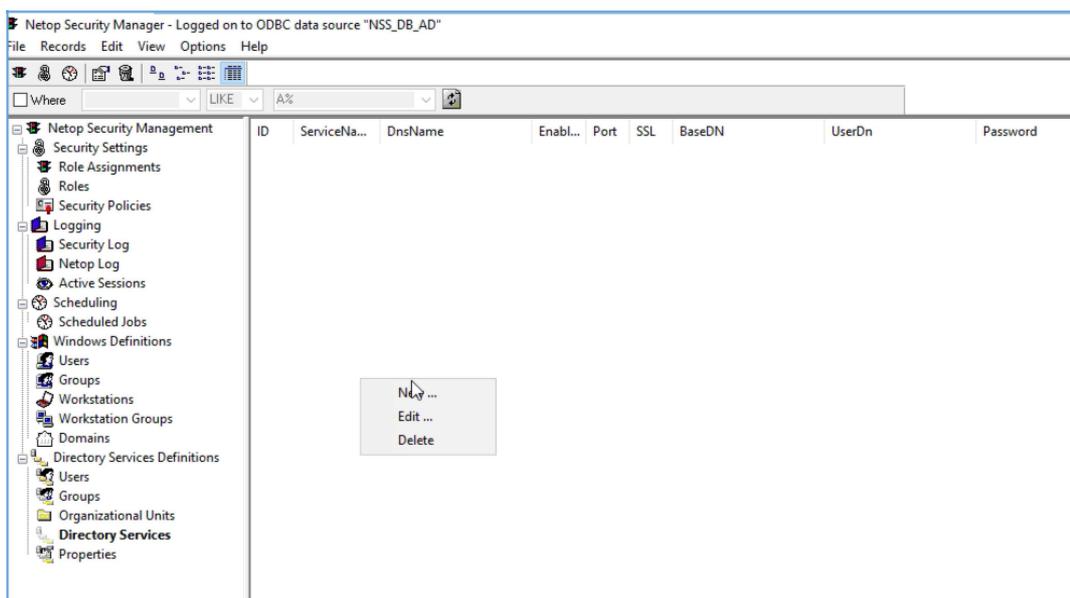# 7.   Configure the Security Role Assignment

1. Return to the Netop Security Server computer and open the Netop Security Manager.
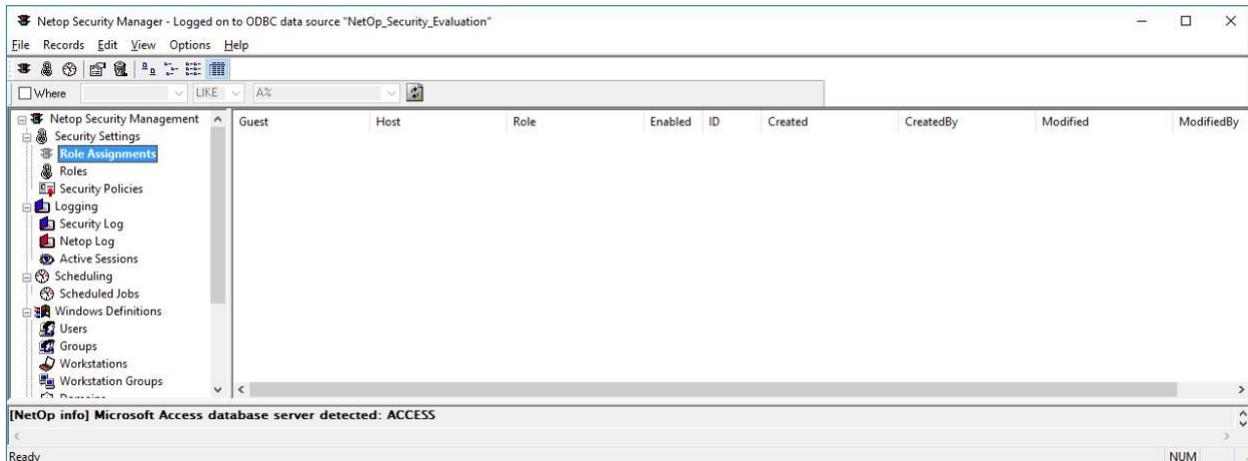
2. On the left tree collapse **Directory Services Definitions** and select **Directory Services**.

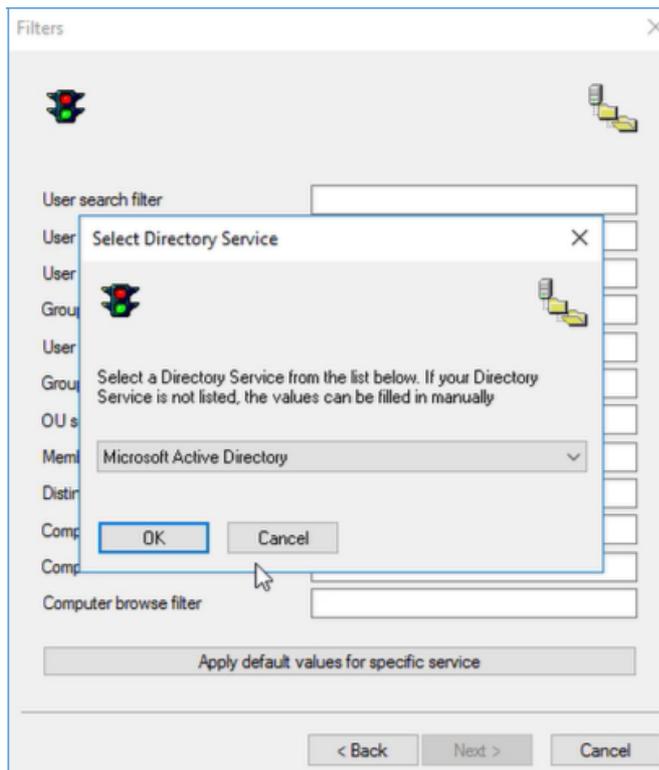3. Right-click on the right side of the window and select **New**.

Enter the DNS name or IP address hosting the Directory Service, then enter the domain name:

5. Optionally, you can test if the Directory Service is found by clicking **Test**.

6. Click **Next**.

7. Select the **Encrypted bind** option and enter the domain admin account credentials:

8. Optionally, you can test the logon to Directory Services by clicking **Test**.

9. Click on **Next**.

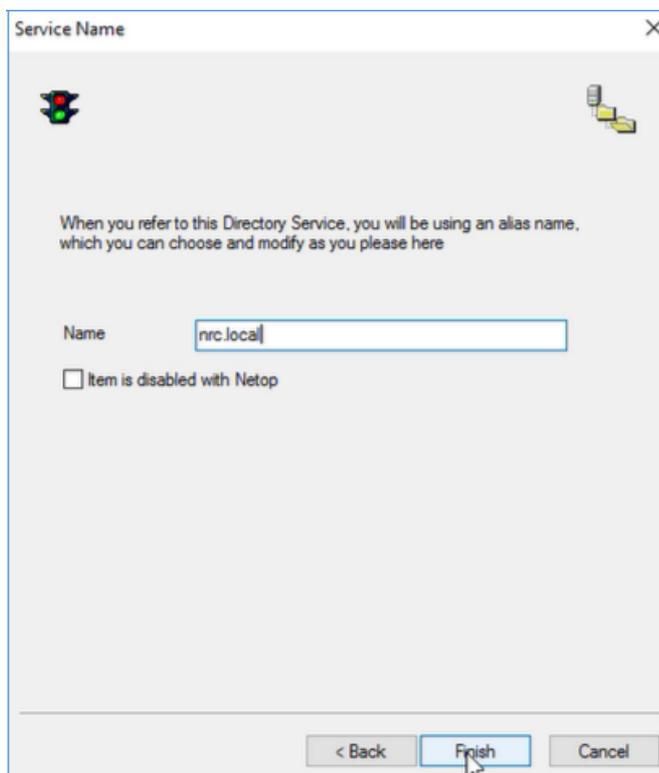10. In the **Filters** dialog box click on **Apply default values for specific service**.

11. In the Select Directory Service pop-up make sure to select **Microsoft Active Directory** from the drop-down list.

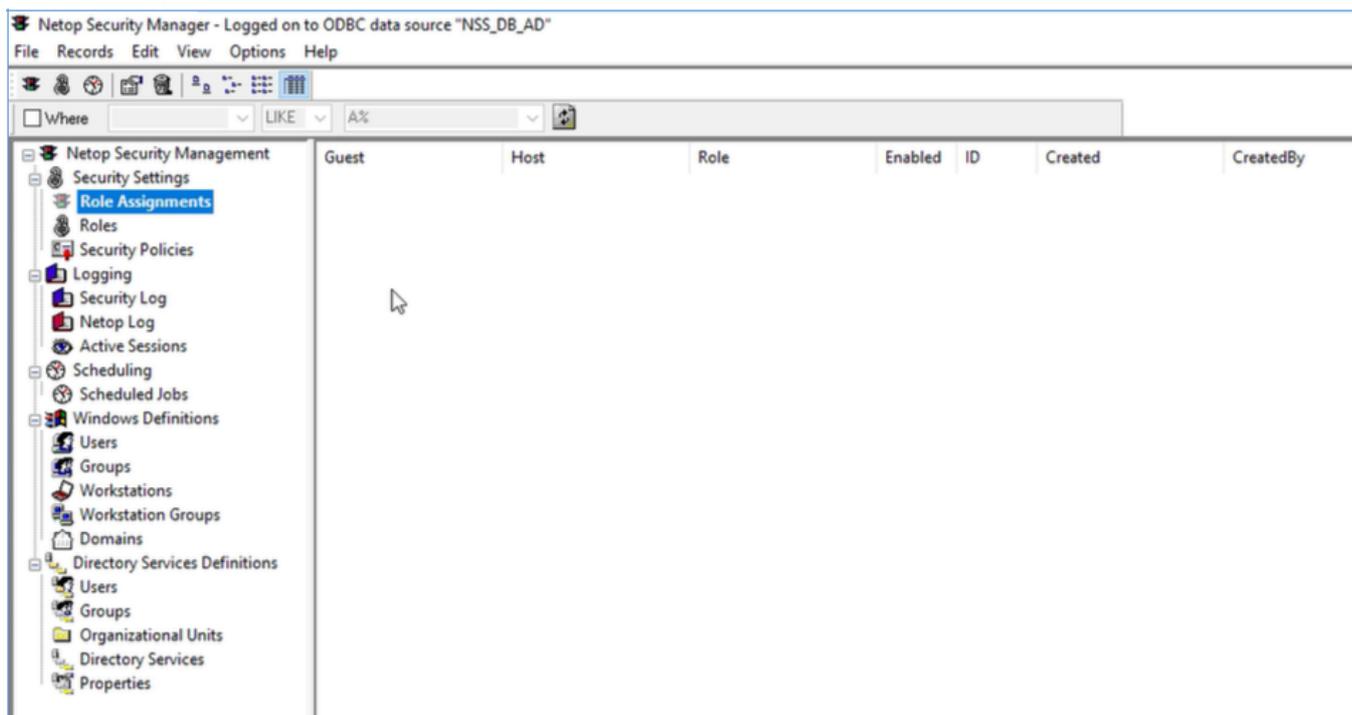12. Click **OK**. The pop-up will close. Click **Next**.

13. Click on **Next.**
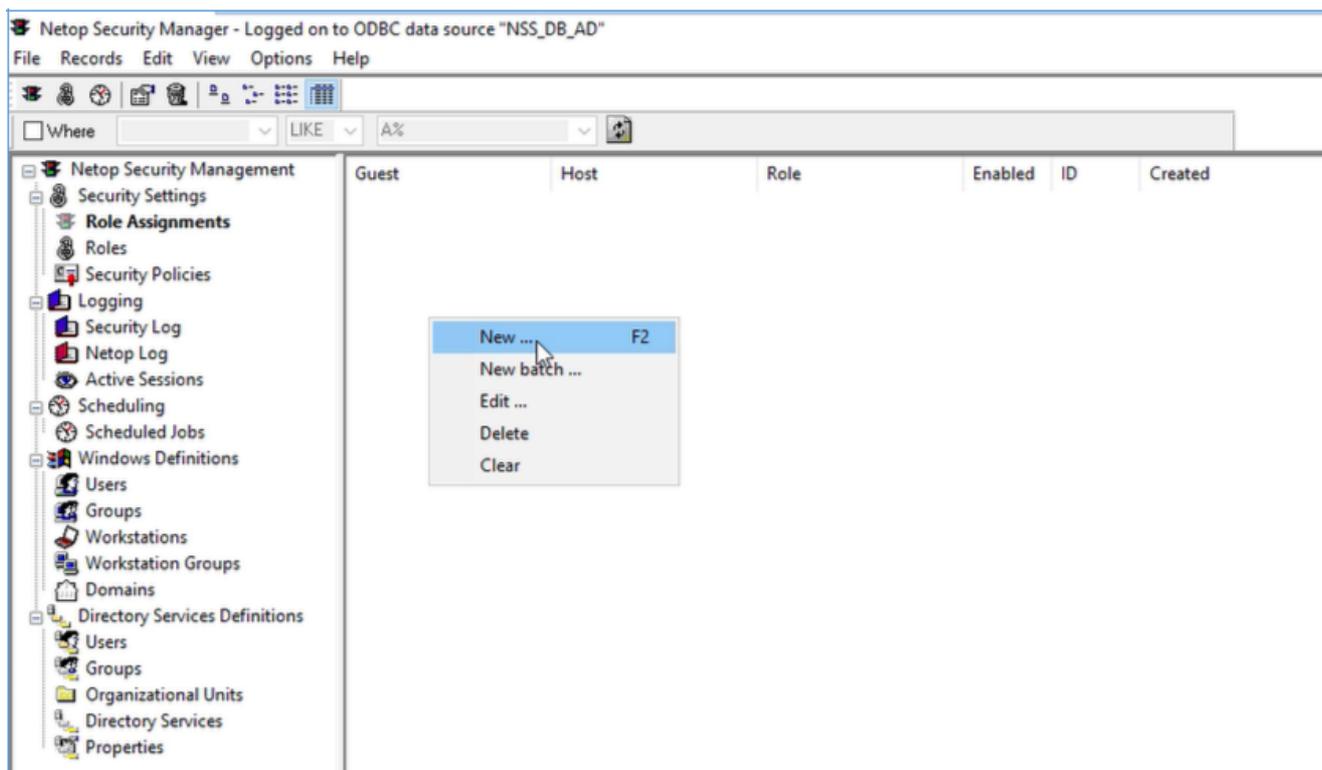
14. Enter an alias for the Directory Service:

15. Click on **Finish**.

16. On the left tree, collapse **Security Settings** and select **Role Assignments**.

17.   Right-click on the right side of the window and select **New**.

18.   In the Select Guest Type dialog box select **Directory Services Group**.

Click on **Next**.

19. Expand the Directory Service, search for the domain users group and select it.
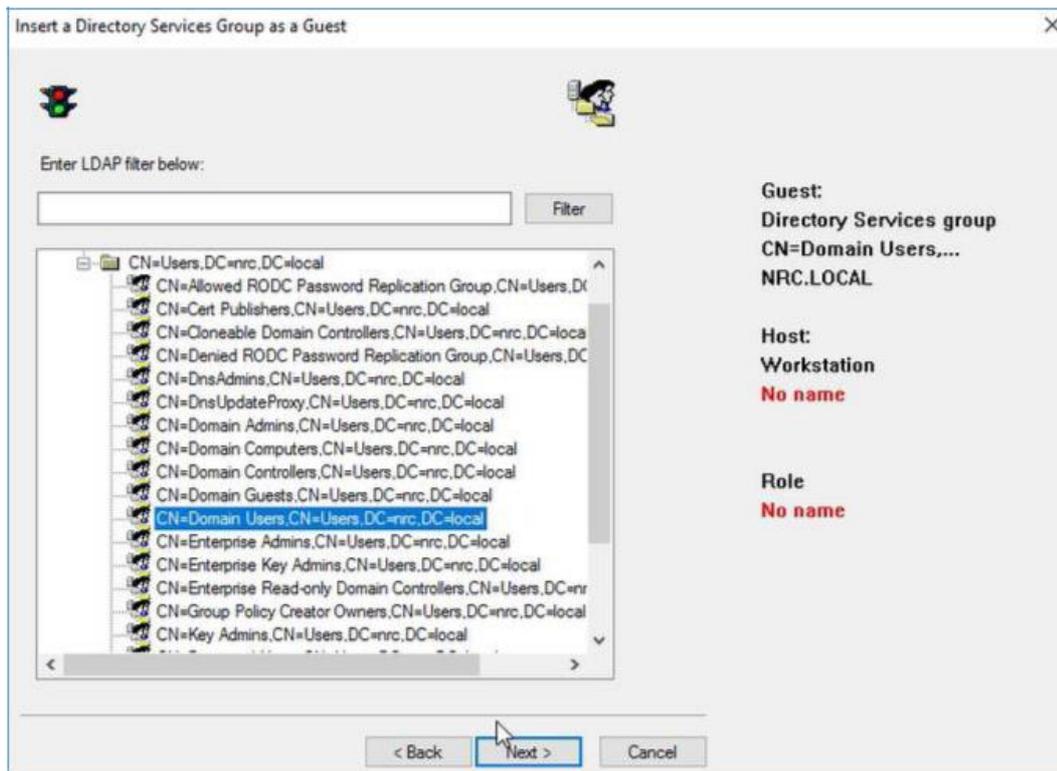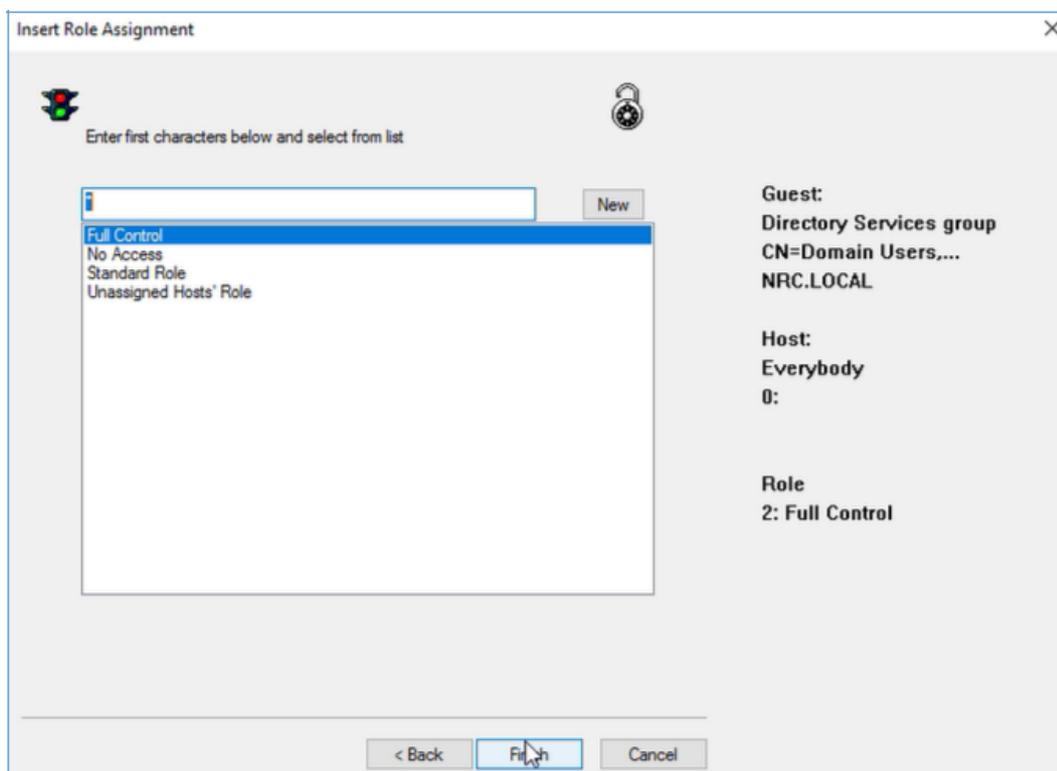

21. Click on **Next**.

22. In the Select Host Type dialog box select **Everyone.**

23. Click on **Next**.

24. In the Insert Role Assignment, the **Full Control** security role is selected by default:

25.	Click **Finish**.

You have now completed your first role assignment for testing.

If you have configured everything correctly will now be able to connect from your Netop Guest to the Netop Host using Security Server authentication and Security Server logging.