

# NAS 322

## Connecting Your NAS to a VPN

Connect your ASUSTOR NAS  
to a VPN network

ASUSTOR COLLEGE

## COURSE OBJECTIVES

Upon completion of this course you should be able to:

1. Have a basic understanding of VPN
2. Be able to connect to your ASUSTOR NAS to a VPN network

## PREQUISITES

*Course Prerequisites:*

None

*Students are expected to have a working knowledge of:*

N/A

## OUTLINE

### 1. Introduction to VPN

#### 1.1 What is a VPN?

### 2. Connecting your NAS to a VPN server

#### 2.1 Connecting to a VPN server via PPTP

#### 2.2 Connecting to a VPN server via OpenVPN

# 1. Introduction to VPN

## 1.1 What is a VPN?

A VPN, or virtual private network, is a solution designed to meet the need for secure access over the Internet to resources on a private network. By using encryption and other security mechanisms, a VPN is able to provide a secure and reliable private connection between computer networks over the Internet. By using a VPN, employees of a business will be able to safely access and use their company intranet over an existing Internet connection as if they were directly connected to the network. Individual users will be able to use a VPN to safely access their home network remotely while away from home.

Your ASUSTOR NAS can act as a VPN client which can then connect to VPN servers via PPTP or OpenVPN protocols allowing you to gain access to different virtual private networks. ASUSTOR NAS also supports the creation of multiple VPN connection profiles allowing you to easily switch connections between different VPN networks.

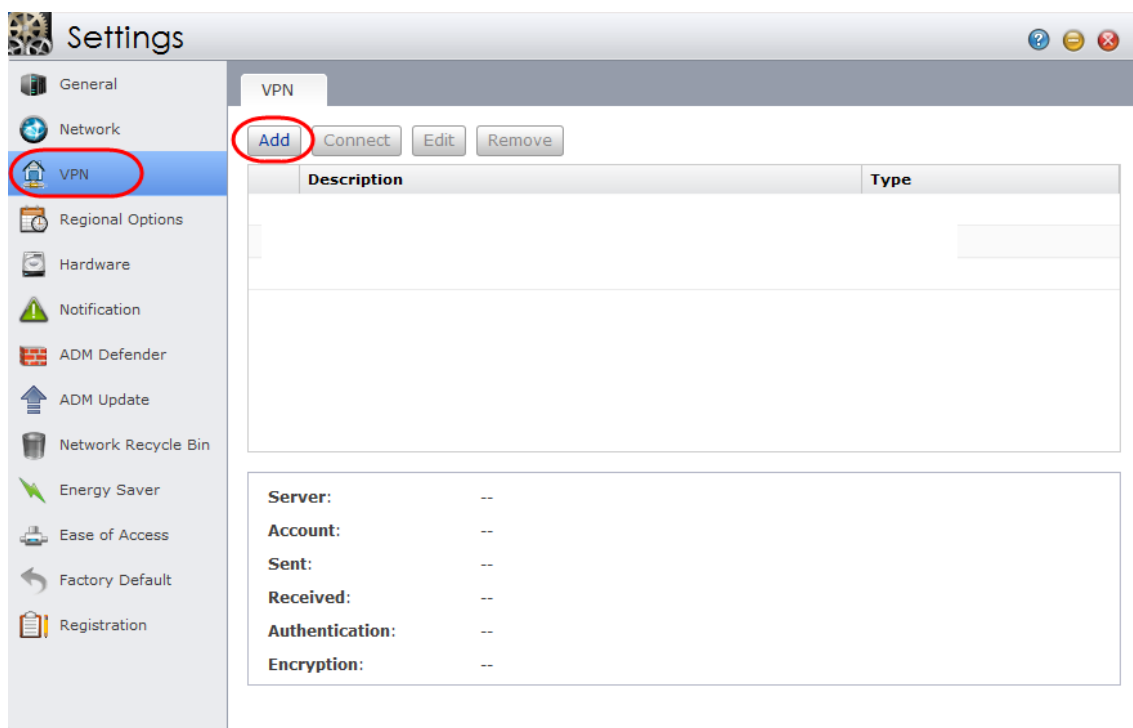
## 2. Connecting your NAS to a VPN server

### 2.1 Connecting to a VPN server via PPTP

In the following example, we will guide you through the process of connecting your ASUSTOR NAS to a VPN server via PPTP protocol.

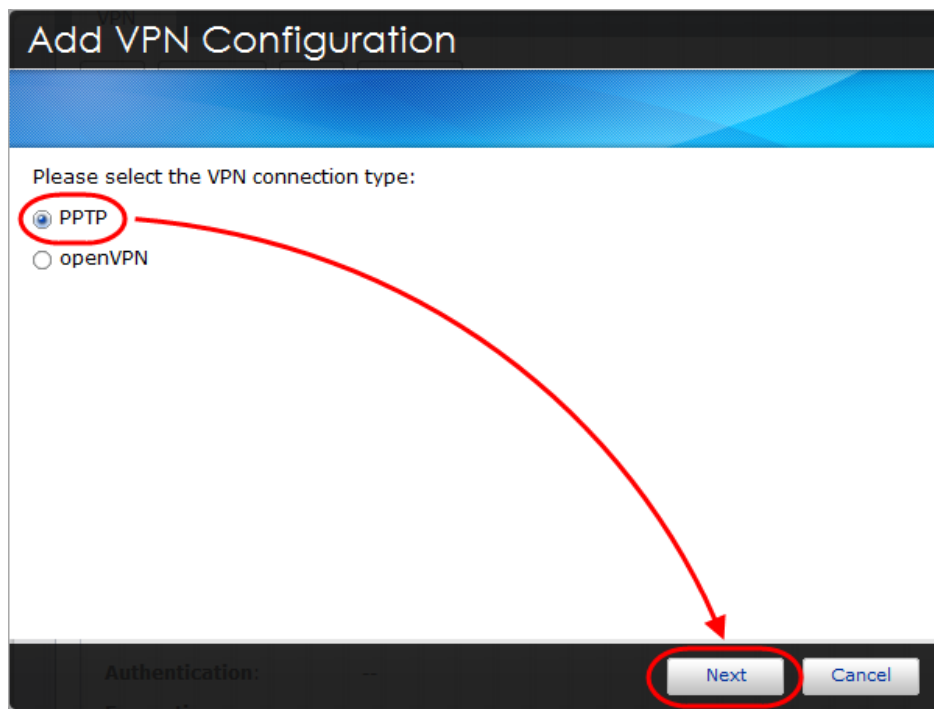
#### STEP 1

- ✓ Log in to ADM using your Web browser.
- ✓ Select **[Settings] → [VPN]**.
- ✓ Click on the **[Add]** button.



## STEP 2

Select the **[PPTP]** radio button and then click **[Next]**.



## STEP 3

Fill out the required fields and then click on **[Finish]** once you are done.

Please fill out the following:

Description: MyVPN

Server: 172.16.0.171

Account: admin

Password: •••••

Advanced

Received: — Previous Finish Cancel

*Note: You also have the option of clicking on the **[Advanced]** button to make additional configurations. After clicking on the **[Advanced]** button, you will be given options to configure different types of authentication, encryption and whether or not you want to reconnect if the VPN connection is lost.*

*For authentication you will be given the following choices to protect the VPN client's password during authentication:*

**PAP:** The password will not be encrypted.

**CHAP:** The password will be encrypted using CHAP.

**MS CHAP:** The password will be encrypted using Microsoft CHAP version 1.

**MS CHAP v2:** The password will be encrypted using Microsoft CHAP version 2.

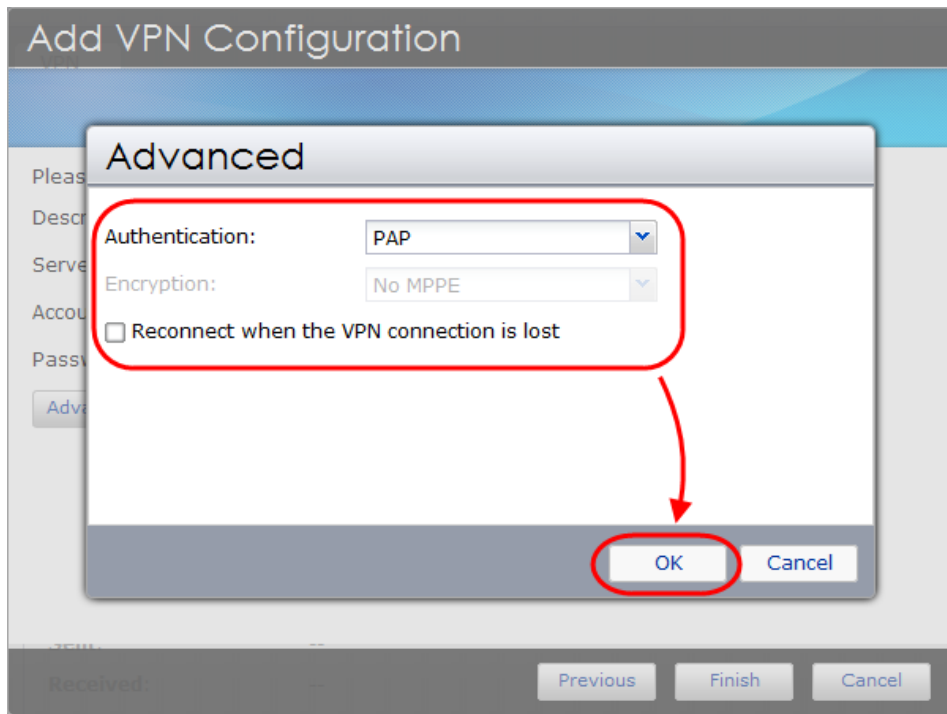
*If you choose MS CHAP or MS CHAP v2 for authentication, you will then be given the choice of choosing one of the following options for encryption:*

**No MPPE:** The VPN connection will not be protected with any encryption mechanism.

**MPPE (40/128 bit):** The VPN connection will be protected with a 40-bit or 128-bit encryption mechanism.

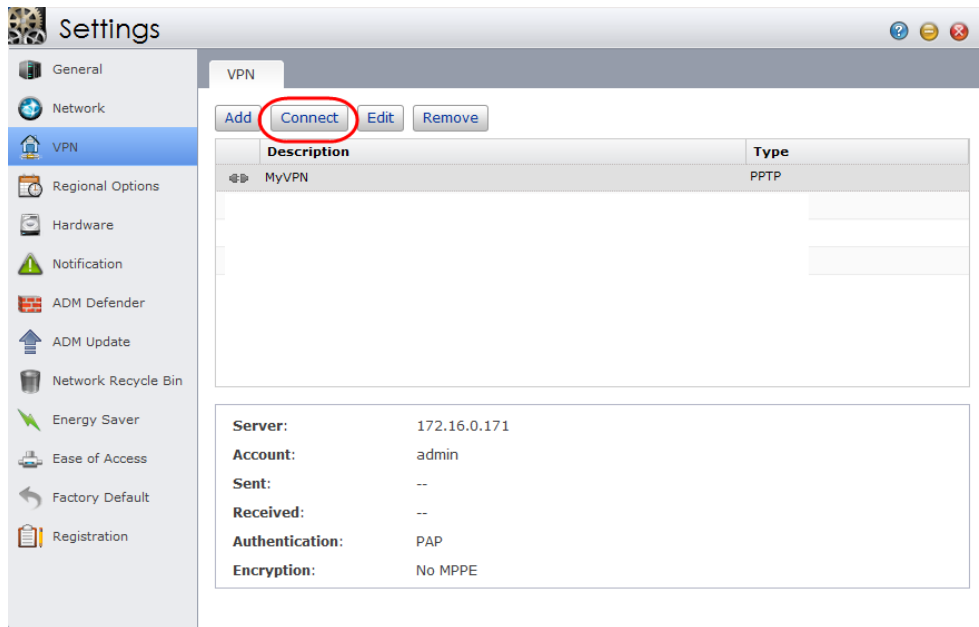
**Maximum MPPE (128 bit):** The VPN connection will be encrypted with a 128-bit encryption, providing the highest level of security.

Click **[OK]** once you are done.



## STEP 4

The VPN configuration that you have just set up will now be visible in the configurations list. Make sure that it is selected and then click on the **[Connect]** button to start the connection.



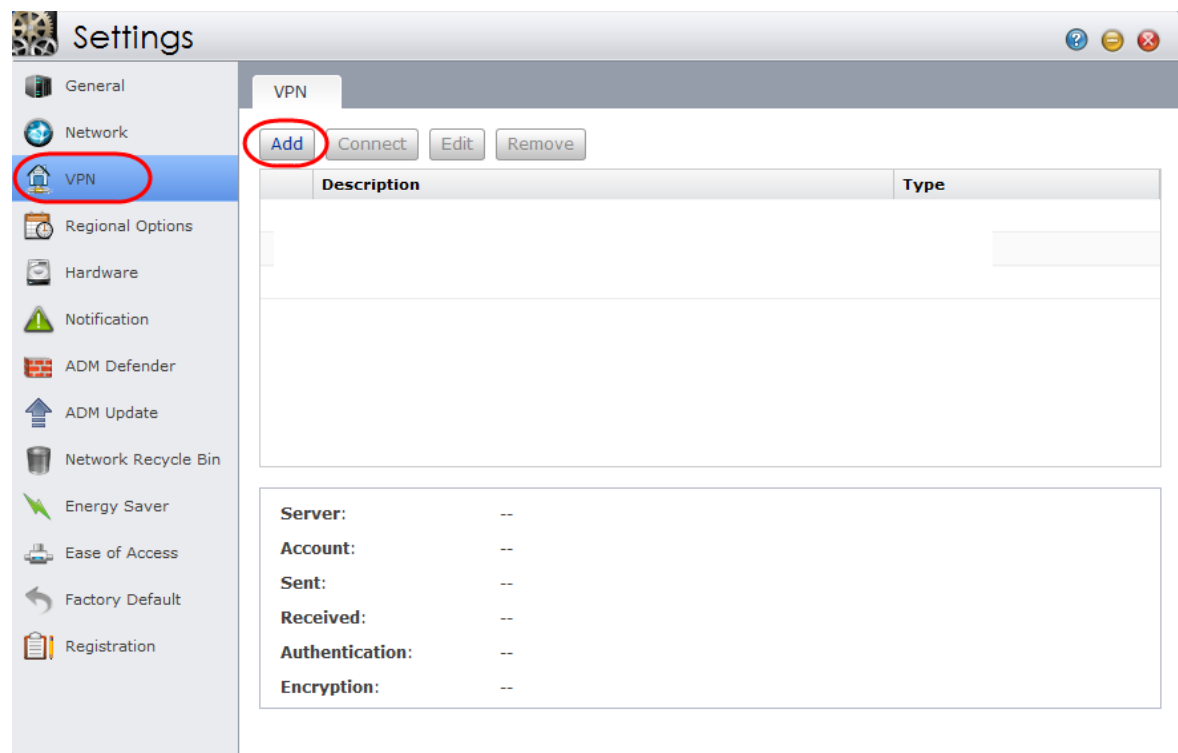


## 2.2 Connecting to a VPN server via OpenVPN

In the following example, we will guide you through the process of connecting your ASUSTOR NAS to a VPN server via OpenVPN protocol.

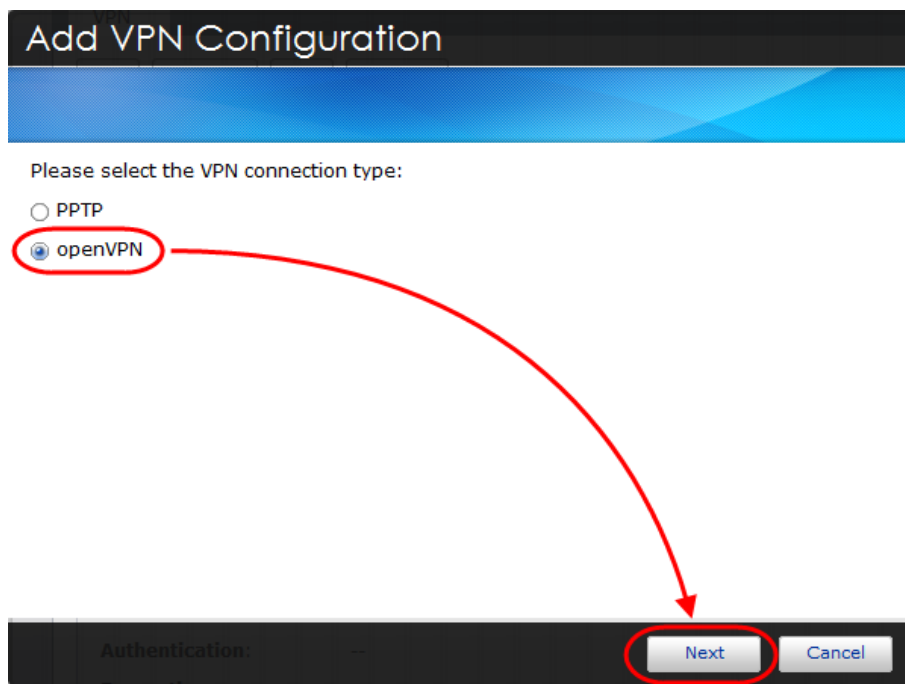
### STEP 1

- ✓ Log in to ADM using your Web browser.
- ✓ Select **[Settings] → [VPN]**.
- ✓ Click on the **[Add]** button.



## STEP 2

Select the **[openVPN]** radio button and then click **[Next]**.



## STEP 3

Fill out the required fields and then click on **[Finish]** once you are done. You can click on **[browse]** to import the certificate (ca.crt) exported from the OpenVPN server.

**Add VPN Configuration**

Please fill out the following:

Description: MyVPN

Server: 172.16.0.171

Port: 1194

Account: admin

Password: .....

Certificate:  Browse

Advanced

Previous Finish Cancel

*Note: You also have the option of clicking on the **[Advanced]** button to make additional configurations. After clicking on the **[Advanced]** button, you will be given options to enable compression on the VPN link, route all client traffic through the VPN server and reconnect when the VPN connection is lost.*

Click **[OK]** once you are done.

**Advanced**

Please fill out the following:

☐ Enable compression on the VPN link

☐ Route all client traffic through the VPN server

☐ Reconnect when the VPN connection is lost

Advanced

Previous Finish Cancel

## STEP 4

The VPN configuration that you have just set up will now be visible in the configurations list. Make sure that it is selected and then click on the **[Connect]** button to start the connection.

