

# NAS 102

## Introduction to File Transfer Protocols

Learn about the file transfer protocols  
supported by ASUSTOR NAS

ASUSTOR COLLEGE

## COURSE OBJECTIVES

Upon completion of this course you should be able to:

1. Have a basic understanding of the file transfer protocols supported by ASUSTOR NAS

## PREQUISITES

*Course Prerequisites:*

None

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

N/A

## OUTLINE

### 1. Introduction to File Transfer Protocols

#### 1.1 Introduction to file transfer protocols

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## 1.1 Introduction to file transfer protocols

File transfer protocols are common file-sharing services that allow your devices to transfer files to and from the ASUSTOR NAS. The file transfer protocols supported by ASUSTOR NAS are listed below.

### **CIFS (Common Internet File Service)**

Sometimes referred to as SMB, SAMBA or Windows file service, CIFS is used mainly by Microsoft Windows computers, and sometimes by Mac OS X computers. This service is enabled by default.

### **AFP (Apple File Protocol)**

AFP is used by Mac OS 9 and Mac OS X computers.

### **NFS (Network File Service)**

NFS is used by Linux and Unix computers. If Linux or Unix users will access your NAS, enable this service.

### **FTP (File Transfer Protocol) and FTPS (FTP with SSL encryption)**

FTP is widely used in public file upload and download sites. After enabling the FTP server setting, you will be able to access your NAS via any FTP client program. If you wish, you can also use an FTPS client for secure and encrypted login and data transfers.

### **WebDAV**

WebDAV is short for web-based distributed authoring and versioning. WebDAV is an HTTP connection method that allows drag-and-drop file transfers similar to what you experience with a standard Windows or Mac OS X computer.

In addition to the above mentioned protocols, ASUSTOR NAS also supports **SSH** and **Rsync**. SSH is generally used for secure network services while Rsync is generally used to synchronize files and directories from one location to another.

Each file transfer protocol's compatibility with Windows, Mac OS X and Linux is summarized in the chart below.

Protocol	Windows	Mac OS X	Linux
CIFS	✓	✓	✓
AFP	✗	✓	✓
NFS	✗	✓	✓
FTP	✓	✓	✓
WebDAV	✓	✓	✓
SSH	✓	✓	✓
Rsync	✓	✓	✓

✓ Additional software required for use.