# Introduction to FTP Server Configuration

Configuring a File Transfer Protocol (FTP) server on Fedora allows secure and efficient file transfers across a network..

## 1. Choose an FTP Server Software

The recommended FTP server for Fedora is vsftpd due to its simplicity, performance, and strong security. Install it using the DNF package manager:

* sudo dnf install -y vsftpd

## 2. Start and Enable the FTP Server

Start and enable vsftpd to ensure it runs on boot:

* sudo systemctl enable --now vsftpd

## 3. Configure FTP Server Options

The primary configuration file for vsftpd is located at /etc/vsftpd/vsftpd.conf. Use a text editor to modify this file as needed:

* sudo nano /etc/vsftpd/vsftpd.conf

Key configuration options include:

* • anonymous\_enable – Allow or disallow anonymous access.
* • local\_enable – Permit local Linux users to log in.
* • write\_enable – Allow file uploads if required.
* • local\_root – Define the default directory for local FTP users.
* • listen\_port / ftp\_data\_port – Modify default ports if needed (default: 21, 20).
* • ssl\_enable – Enable SSL/TLS for secure FTP sessions.

## 4. Configure the Firewall

If firewalld is active, open the FTP service ports (20 and 21) to allow FTP connections:

* sudo firewall-cmd --permanent --add-service=ftp
* sudo firewall-cmd --reload

## 5. Restart the FTP Server

After modifying the configuration, restart the FTP service to apply the changes:

* sudo systemctl restart vsftpd

## 6. Create FTP Users

Create user accounts for FTP access:

* sudo useradd -m ftpuser
* sudo passwd ftpuser

## 7. Test FTP Access

Use an FTP client such as FileZilla or the ftp command-line tool to connect to the server. Use the server's IP address or hostname along with your created username and password.

## 8. Troubleshooting

If issues arise, check system logs for vsftpd errors using the journalctl command:

* sudo journalctl -xe | grep vsftpd

Review the log output for authentication, permission, or configuration errors.

## 9. Security Considerations

For enhanced security, it is recommended to configure FTP over TLS (FTPS) by generating an SSL certificate and enabling SSL support in /etc/vsftpd/vsftpd.conf. Additionally, verify SELinux policies to ensure proper FTP access.