

Active Directory FTP Security Hardening Guide

Important Notes:

- Replace `domain.local` with YOUR actual domain name (e.g., `company.com`, `contoso.local`)
 - Replace `FTPSERVER01` with YOUR actual FTP server hostname
 - Replace `10.0.0.100` with YOUR FTP server's actual IP address
 - Replace `C:\FTPRoot` with YOUR actual FTP root directory path
 - Replace `192.168.1.0/24` with YOUR actual client network range
 - When creating user accounts, use YOUR organization's naming conventions
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1. Install FTP Server with IIS

Install FTP Server Role:

1. Open **Server Manager**
2. Click **Manage > Add Roles and Features**
3. Click **Next** through the Before You Begin page
4. Select **Role-based or feature-based installation**, click **Next**
5. Select your server from the Server Pool, click **Next**
6. Check **Web Server (IIS)**, click **Next**
7. Click **Next** on the Features page
8. Click **Next** on the Web Server Role (IIS) page
9. On **Role Services**, expand **Web Server > FTP Server**
10. Check the following:
 - ✓ **FTP Service**
 - ✓ **FTP Extensibility**
11. Expand **Web Server > Security** and check:
 - ✓ **Basic Authentication**
 - ✓ **Windows Authentication**
12. Click **Next**
13. Click **Install**
14. Wait for installation to complete, then click **Close**

Verify Installation:

1. Open **Server Manager > Tools > Internet Information Services (IIS) Manager**
 2. Expand the server node (your server name, e.g., **FTPSERVER01**)
 3. Verify **Sites** folder is present
 4. Close IIS Manager
-

2. Configure FTP Site

Create FTP Root Directory:

1. Open **File Explorer**
2. Navigate to **(C:\)** (or your preferred drive)
3. Right-click in empty space > **New > Folder**
4. Name it **(FTPRoot)** (or your preferred name - remember this path)
5. Close File Explorer

Create FTP Site:

1. Open **Server Manager > Tools > Internet Information Services (IIS) Manager**
2. Expand the server node (e.g., **(FTPSERVER01)**)
3. Right-click **Sites** > **Add FTP Site**
4. **Site Information** page:
 - FTP site name: **(Secure FTP Site)** (or your preferred name)
 - Physical path: Click ... and browse to **(C:\FTPRoot)** (the folder you created)
 - Click **Next**
5. **Binding and SSL Settings** page:
 - IP Address: Select **All Unassigned** (or select your server's specific IP)
 - Port: **(21)** (default FTP port)
 - Virtual Host: Leave blank
 - SSL: Select **No SSL** for now (we'll configure SSL in the next section)
 - Click **Next**
6. **Authentication and Authorization** page:
 - Authentication: Check **Basic** only (uncheck Anonymous)
 - Authorization: Select **Specified users**
 - Enter: **(Domain Admins)** (or create a specific FTP user group)
 - Permissions: Check **Read** and **Write**
 - Click **Finish**

Verify FTP Site:

1. In IIS Manager, expand **Sites**

2. You should see your FTP site listed (e.g., "Secure FTP Site")
 3. Click on the FTP site
 4. In the right **Actions** pane, verify **Start** is available (if so, click it)
-

3. Enable FTP over SSL/TLS (FTPS)

CRITICAL: Always use FTPS to encrypt FTP traffic. Plain FTP sends credentials in clear text.

Create Self-Signed SSL Certificate (For Testing):

1. Open **Server Manager > Tools > Internet Information Services (IIS) Manager**
2. Click on the server node (e.g., **FTPSERVER01**)
3. Double-click **Server Certificates**
4. In the right **Actions** pane, click **Create Self-Signed Certificate**
5. Specify a friendly name: **FTP SSL Certificate** (or your preferred name)
6. Select **Personal** for certificate store
7. Click **OK**
8. The certificate now appears in the list

Note: For production environments, obtain a certificate from a trusted Certificate Authority (CA) instead of using self-signed certificates.

Configure FTP Site to Use SSL:

1. In IIS Manager, expand **Sites**
2. Click on your FTP site (e.g., "Secure FTP Site")
3. Double-click **FTP SSL Settings**
4. Under **SSL Certificate**, select your certificate from the dropdown (e.g., "FTP SSL Certificate")
5. Under **SSL Policy**, select:
 - **Require SSL connections** (most secure - blocks unencrypted connections)
 - Or **Allow SSL connections** (allows both encrypted and unencrypted - not recommended)
6. Click **Apply** in the right **Actions** pane

Update FTP Site Binding:

1. In IIS Manager, right-click your FTP site > **Edit Bindings**
2. Select the FTP binding and click **Edit**

3. Verify SSL Certificate shows your certificate
 4. Click **OK**, then **Close**
-

4. Configure FTP User Isolation

User isolation prevents users from browsing other users' directories.

Enable User Isolation:

1. Open **Server Manager > Tools > Internet Information Services (IIS) Manager**
2. Expand **Sites**
3. Click on your FTP site (e.g., "Secure FTP Site")
4. Double-click **FTP User Isolation**
5. Select one of the following options:
Option A - User name directory (Active Directory):
 - Select **User name directory (Active Directory)**
 - Click **Set** to configure AD settings
 - Username: Enter an AD service account (e.g., `domain\ftp_service`)
 - Password: Enter the service account password
 - Click **OK**
 - Click **Apply**

Option B - User name directory (isolate users):

- Select **User name directory (isolate users)**
- Create subdirectories under `C:\FTPRoot\LocalUser\[username]` for each user
- Click **Apply**

Option C - User name physical root (restrict access):

- Select **User name physical root (restrict access to the physical root directory)**
 - Click **Apply**
6. Recommended: **User name directory (Active Directory)** for AD-integrated environments

Create User Directory Structure (If using Option B):

1. Open **File Explorer**
2. Navigate to `C:\FTPRoot` (your FTP root)
3. Create folder: `LocalUser`

4. Inside **LocalUser**, create folders for each FTP user:
 - Example: **C:\FTPRoot\LocalUser\jsmith**
 - Example: **C:\FTPRoot\LocalUser\mjones**
 5. Set NTFS permissions on each user folder (see Section 9)
-

5. Set Up FTP Authorization Rules

Control which users and groups can access your FTP site.

Configure Authorization Rules:

1. Open **Server Manager > Tools > Internet Information Services (IIS) Manager**
2. Expand **Sites**
3. Click on your FTP site (e.g., "Secure FTP Site")
4. Double-click **FTP Authorization Rules**

Add Allow Rule for Domain Admins:

1. In the right **Actions** pane, click **Add Allow Rule**
2. Select **Specified roles or user groups**
3. Enter: **Domain Admins** (or your preferred admin group - **use YOUR group name**)
4. Permissions: Check **Read** and **Write**
5. Click **OK**

Add Allow Rule for Specific FTP Users Group:

1. Click **Add Allow Rule** again
2. Select **Specified roles or user groups**
3. Enter: **FTP Users** (create this group in AD first - **use YOUR group name**)
4. Permissions: Check **Read** only (or Read and Write if needed)
5. Click **OK**

Remove Default Rules (If Present):

1. If you see a rule for "All Users" or "Anonymous", select it
2. Click **Remove** in the right **Actions** pane

3. Click **Yes** to confirm

Add Deny Rule (Optional - Block Specific Users):

1. Click **Add Deny Rule**
 2. Select **Specified users**
 3. Enter username to block (e.g., **domain\baduser** - use actual username)
 4. Click **OK**
-

6. Configure FTP Firewall Settings

Allow FTP traffic through Windows Firewall and configure passive port range.

Configure FTP Firewall Support:

1. Open **Server Manager > Tools > Internet Information Services (IIS) Manager**
2. Click on the server node (e.g., **FTPSERVER01**)
3. Double-click **FTP Firewall Support**
4. Enter your server's **external IP address** in **Data Channel Port Range** field:
 - If behind NAT/firewall: Enter your **public IP address**
 - If direct internet: Enter your **server's IP** (e.g., **10.0.0.100**)
5. Set **Data Channel Port Range**: **50000-50100** (or your preferred range)
6. Click **Apply** in the right **Actions** pane

Configure Windows Firewall Rules:

1. Open **Server Manager > Tools > Windows Defender Firewall with Advanced Security**
2. Click **Inbound Rules**

Allow FTP Control Port (Port 21):

1. Click **New Rule** in the right **Actions** pane
2. Select **Port**, click **Next**
3. Select **TCP**, enter **21**, click **Next**
4. Select **Allow the connection**, click **Next**
5. Check **Domain** profile, click **Next**

6. Name: **FTP-Control-Port-21**, click **Finish**

Allow FTP Data Port Range (Passive Mode):

1. Click **New Rule** again
2. Select **Port**, click **Next**
3. Select **TCP**, enter **50000-50100** (match your configured range), click **Next**
4. Select **Allow the connection**, click **Next**
5. Check **Domain** profile, click **Next**
6. Name: **FTP-Data-Ports-Passive**, click **Finish**

Restrict to Specific IP Ranges (Recommended):

1. Right-click the **FTP-Control-Port-21** rule > **Properties**
 2. Go to **Scope** tab
 3. Under **Remote IP address**, select **These IP addresses**
 4. Click **Add**
 5. Enter your client network range (e.g., **192.168.1.0/24**) - **use YOUR network**)
 6. Click **OK**, then **OK** again
 7. Repeat for **FTP-Data-Ports-Passive** rule
-

7. Implement FTP IP Restrictions

Restrict FTP access to specific IP addresses or ranges.

Configure IP Address Restrictions:

1. Open **Server Manager** > **Tools** > **Internet Information Services (IIS) Manager**
2. Expand **Sites**
3. Click on your FTP site (e.g., "Secure FTP Site")
4. Double-click **IPv4 Address and Domain Restrictions**

Add Allow Entry for Internal Network:

1. In the right **Actions** pane, click **Add Allow Entry**
2. Select **IP address range**
3. Enter your network range:

- IP address: **[192.168.1.0]** (example - use YOUR network)
- Subnet mask: **[255.255.255.0]**

4. Click **OK**

Add Deny Entry for Specific IP (Optional):

1. Click **Add Deny Entry**
2. Select **Specific IP address**
3. Enter the IP to block (e.g., **[203.0.113.50]** - use actual IP to block)
4. Click **OK**

Set Default Deny Policy (Maximum Security):

1. In the right **Actions** pane, click **Edit Feature Settings**
2. Select **Deny** for "Access for unspecified clients"
3. Click **OK**

Note: With default deny, you must explicitly allow all legitimate IP ranges.

8. Configure FTP Logging

Enable detailed FTP logging to monitor access and detect security incidents.

Configure FTP Logging:

1. Open **Server Manager > Tools > Internet Information Services (IIS) Manager**
2. Expand **Sites**
3. Click on your FTP site (e.g., "Secure FTP Site")
4. Double-click **FTP Logging**
5. Under **One log file per**, select **Site** (recommended)
6. Under **Log File Format**, select **W3C** (recommended for detailed logs)
7. Click **Select Fields** button
8. Ensure the following are checked:
 - **✓ Date**
 - **✓ Time**
 - **✓ Client IP Address (c-ip)**

- ✓ **User Name (cs-username)**
- ✓ **Method (cs-method)**
- ✓ **URI Stem (cs-uri-stem)**
- ✓ **Protocol Status (sc-status)**
- ✓ **Bytes Sent (sc-bytes)**
- ✓ **Bytes Received (cs-bytes)**
- ✓ **Time Taken (time-taken)**

9. Click **OK**
10. Under **Directory**, note the log file location (default: `(C:\inetpub\logs\LogFiles)`)
11. Click **Apply**

View FTP Logs:

1. Open **File Explorer**
 2. Navigate to `(C:\inetpub\logs\LogFiles)`
 3. Find the folder for your FTP site (e.g., `(FTPSVC1)`)
 4. Open the most recent `(.log)` file with Notepad
-

9. Set Up FTP Directory Security

Configure NTFS permissions to secure FTP directories.

Set NTFS Permissions on FTP Root:

1. Open **File Explorer**
2. Navigate to `(C:\FTPRoot)` (your FTP root directory)
3. Right-click the folder > **Properties**
4. Go to **Security** tab
5. Click **Advanced**
6. Click **Disable inheritance**
7. Select **Convert inherited permissions into explicit permissions**
8. Click **OK**

Remove Unnecessary Permissions:

1. Still in **Security** tab, select **Users** group
2. Click **Remove**
3. Select **Authenticated Users** if present
4. Click **Remove**

Add Required Permissions:

1. Click **Edit**
2. Click **Add**
3. Click **Advanced > Find Now**
4. Select **Administrators**, click **OK**, click **OK**
5. Check **Full Control**, click **OK**
6. Click **Add** again
7. Enter: **IUSR** (IIS anonymous user account)
8. Click **Check Names**, click **OK**
9. Check **Read** only, click **OK**
10. Click **Add** again
11. Enter: **FTP Users** (or your FTP user group - **use YOUR group name**)
12. Click **Check Names**, click **OK**
13. Check **Read** and **Write** (or just Read if read-only access)
14. Click **OK**, then **OK** again

Set Permissions on User Directories:

If using user isolation, set permissions on each user's folder:

1. Navigate to **C:\FTPRoot\LocalUser\jsmith** (example user folder)
2. Right-click > **Properties > Security tab**
3. Click **Edit > Add**
4. Enter: **domain\jsmith** (the specific user - **use actual username**)
5. Click **Check Names**, click **OK**
6. Check **Modify** permission
7. Click **OK**, then **OK** again
8. Repeat for each user folder

10. Configure FTP Bandwidth Throttling

Limit bandwidth usage to prevent FTP from consuming all available network resources.

Configure Bandwidth Throttling:

1. Open **Server Manager > Tools > Internet Information Services (IIS) Manager**
2. Click on the server node (e.g., **FTPSERVER01**)
3. Double-click **FTP Request Filtering**
4. In the right Actions pane, click **Edit Feature Settings**
5. Check **Enable file name filtering**
6. Check **Enable command filtering**
7. Click **OK**

Limit Connection Bandwidth:

1. In IIS Manager, expand **Sites**
 2. Right-click your FTP site > **Manage FTP Site > Advanced Settings**
 3. Expand **Connections**
 4. Set **Maximum Bandwidth (Bytes/Second)**: Enter value in bytes
 - Example: **1048576** for 1 MB/s ($1024 * 1024$ bytes)
 - Example: **10485760** for 10 MB/s
 - **Use a value appropriate for YOUR network**
 5. Set **Maximum Connections**: **100** (or your preferred limit)
 6. Click **OK**
-

11. Disable Anonymous FTP Access

CRITICAL: Always disable anonymous FTP access in production environments.

Disable Anonymous Authentication:

1. Open **Server Manager > Tools > Internet Information Services (IIS) Manager**
2. Expand **Sites**

3. Click on your FTP site (e.g., "Secure FTP Site")
4. Double-click **FTP Authentication**
5. Select **Anonymous Authentication**
6. In the right **Actions** pane, click **Disable**
7. Verify **Basic Authentication** is **Enabled**
8. If **Windows Authentication** is available and you want to use it, click **Enable**

Verify Anonymous Access is Blocked:

1. In IIS Manager, click on your FTP site
 2. Double-click **FTP Authorization Rules**
 3. Verify there are NO rules allowing "Anonymous Users" or "All Users"
 4. If present, select and click **Remove**
-

12. Configure FTP Session Timeouts

Automatically disconnect idle FTP sessions to improve security.

Configure Session Timeouts:

1. Open **Server Manager > Tools > Internet Information Services (IIS) Manager**
2. Expand **Sites**
3. Right-click your FTP site > **Manage FTP Site > Advanced Settings**
4. Expand **Connections**
5. Set **Connection Time-out (seconds)**: **(300)** (5 minutes - adjust as needed)
6. Set **Data Channel Idle Timeout (seconds)**: **(120)** (2 minutes)
7. Click **OK**

Configure Control Channel Timeout:

1. Still in IIS Manager, click on your FTP site
2. Double-click **FTP Site Settings** (may be listed as **FTP Site** in some versions)
3. Set **Control Channel Timeout**: **(300)** seconds
4. Set **Data Channel Timeout**: **(120)** seconds
5. Click **Apply**

13. Set Up FTP with Active Directory Authentication

Configure FTP to authenticate users against Active Directory.

Prerequisites:

1. Create an Active Directory group for FTP users (if not already created):
 - Open **Server Manager > Tools > Active Directory Users and Computers**
 - Right-click **Users > New > Group**
 - Group name: **(FTP Users)** (or your preferred name - **remember this name**)
 - Group scope: **Global**
 - Group type: **Security**
 - Click **OK**
2. Add users to the FTP Users group:
 - In Active Directory Users and Computers
 - Find the user (e.g., **(jsmith)**)
 - Right-click > **Add to a group**
 - Enter: **(FTP Users)**
 - Click **Check Names**, click **OK**

Configure FTP to Use AD Authentication:

1. Open **Server Manager > Tools > Internet Information Services (IIS) Manager**
2. Expand **Sites**
3. Click on your FTP site (e.g., "Secure FTP Site")
4. Double-click **FTP Authentication**
5. Ensure **Basic Authentication** is **Enabled**
6. Optional: Enable **Windows Authentication** if desired (more secure, requires client support)

Configure Authorization for AD Groups:

1. Click on your FTP site
2. Double-click **FTP Authorization Rules**
3. If not already done, click **Add Allow Rule**
4. Select **Specified roles or user groups**

5. Enter: `(domain\FTP Users)` (use format: `(domain\groupname)` - **YOUR domain and group**)
6. Permissions: Check **Read** and **Write** (or just Read as appropriate)
7. Click **OK**

Test AD Authentication:

1. From a client computer, open **File Explorer**
 2. In the address bar, type: `ftp://10.0.0.100` (use YOUR FTP server IP)
 3. Press Enter
 4. Enter credentials:
 - Username: `(domain\username)` (e.g., `contoso\jsmith` - **use YOUR domain**)
 - Password: User's AD password
 5. Verify access is granted
-

14. Monitor FTP Activity

View FTP Logs in Event Viewer:

1. Open **Server Manager > Tools > Event Viewer**
2. Expand **Applications and Services Logs > Microsoft > Windows**
3. Navigate to **IIS-Configuration > Operational**
4. Look for FTP-related events

Review IIS FTP Logs:

1. Open **File Explorer**
2. Navigate to `(C:\inetpub\logs\LogFiles\FTPSVC1)` (your FTP site's log folder)
3. Open the most recent `(.log)` file
4. Look for:
 - Failed login attempts (status code 530)
 - Unauthorized access attempts (status code 550)
 - Large file transfers
 - Unusual activity patterns

Key FTP Status Codes to Monitor:

Status Code	Meaning	Action
530	Login incorrect	Monitor for brute-force attempts
550	Permission denied	Check authorization rules
421	Service not available	Server may be under attack or overloaded
425	Can't open data connection	Firewall/pассивные порты issues
426	Connection closed; transfer aborted	Investigate connection stability

Create Event Viewer Custom View for FTP Security:

1. Open Event Viewer
2. Right-click **Custom Views** > **Create Custom View**
3. Select **By log**, expand **Applications and Services Logs**
4. Navigate to and check: **Microsoft > Windows > IIS-Configuration > Operational**
5. Click **OK**
6. Name: **FTP Security Events**
7. Click **OK**

PowerShell Monitoring Script (Optional):

```
powershell

# Monitor FTP logs for failed login attempts
# Replace path with YOUR actual FTP log directory
$logPath = "C:\inetpub\logs\LogFiles\FTPSVC1"
$latestLog = Get-ChildItem $logPath | Sort-Object LastWriteTime -Descending | Select-Object -First 1

# Search for failed logins (status 530)
Get-Content $latestLog.FullName | Where-Object {$_. -like "*530*"} |
Select-Object -Last 20

# Count failed attempts by IP
Get-Content $latestLog.FullName | Where-Object {$_. -like "*530*"} |
ForEach-Object {($_ -split " ")[8]} |
Group-Object | Sort-Object Count -Descending
```

15. FTP Security Checklist

Use this checklist to verify your FTP security configuration:

Installation & Configuration:

- FTP Server installed via IIS
- FTP site created with proper physical path
- FTP site is started and operational

SSL/TLS Encryption:

- SSL certificate created or obtained
- FTP site configured to use SSL
- SSL policy set to "Require SSL connections"
- FTP binding updated with SSL certificate

Authentication & Authorization:

- Anonymous authentication **DISABLED**
- Basic authentication or Windows authentication enabled
- Authorization rules configured for specific AD groups only
- No "All Users" or overly permissive rules present

User Isolation:

- FTP User Isolation configured (AD or user directory mode)
- User directory structure created (if applicable)
- Each user has their own isolated directory

Network Security:

- FTP Firewall Support configured with correct IP and port range
- Windows Firewall rules created for port 21 and passive ports
- Firewall rules restricted to internal IP ranges only
- IP Address Restrictions configured (allow specific ranges only)

Directory Security:

- NTFS permissions configured on FTP root directory
- Unnecessary groups removed (Users, Authenticated Users)

- FTP user group has appropriate permissions only
- Individual user folders have per-user NTFS permissions

Operational Security:

- Bandwidth throttling configured
- Maximum connections limit set
- Session timeouts configured (idle and control channel)
- FTP logging enabled with W3C format
- All necessary log fields selected

Active Directory Integration:

- AD group created for FTP users
- Users added to FTP group in AD
- FTP authorization rules reference AD groups
- AD authentication tested and working

Monitoring:

- FTP logs reviewed for suspicious activity
- Event Viewer custom view created for FTP events
- Regular log review schedule established
- Alert system for failed login attempts (if applicable)

Best Practices:

- Strong password policy enforced via AD Group Policy
 - FTP server OS fully patched and updated
 - Antivirus/anti-malware installed and updated
 - Regular backups of FTP data configured
 - Documentation created for FTP configuration
-

Quick Security Verification

Manual Verification Steps:

- 1. Test SSL/TLS:** Use FTP client (FileZilla) to connect via FTPS (port 21, explicit TLS)
 - Should see "Certificate verified" or "Connection successful"
 - Connection should be encrypted

2. **Test Anonymous Access:** Attempt FTP connection without credentials
 - Should be **denied** (530 error)
3. **Test Authorization:** Login with non-authorized AD user
 - Should be **denied** (530 or 550 error)
4. **Test User Isolation:** Login as user, attempt to browse parent directory
 - Should be **denied** or not visible
5. **Check Logs:** Verify FTP logs are being written
 - Navigate to **C:\inetpub\logs\LogFiles\FTPSVC1**
 - Confirm recent log entries exist
6. **Test Firewall:** Attempt FTP connection from blocked IP range
 - Should be **blocked** (timeout or connection refused)

PowerShell Verification Script:

```
powershell
```

```

# FTP Security Audit Script
Write-Host "==== FTP Security Audit ====" -ForegroundColor Cyan

# Import IIS module
Import-Module WebAdministration

# Replace "Secure FTP Site" with YOUR FTP site name
$siteName = "Secure FTP Site"

# Check if site exists
$site = Get-Website -Name $siteName
if ($site) {
    Write-Host "FTP Site Found: $($site.Name)" -ForegroundColor Green
} else {
    Write-Host "FTP Site NOT Found!" -ForegroundColor Red
    exit
}

# Check SSL configuration
$sslBinding = Get-WebBinding -Name $siteName -Protocol ftp | Where-Object {$__.certificateHash}
if ($sslBinding) {
    Write-Host "SSL Configured: YES" -ForegroundColor Green
} else {
    Write-Host "SSL Configured: NO" -ForegroundColor Red
}

# Check anonymous authentication (should be disabled)
$authConfig = Get-WebConfigurationProperty -Filter "/system.ftpServer/security/authentication/anonymousAuthentication"
if ($authConfig.Value -eq $false) {
    Write-Host "Anonymous Auth: DISABLED (Good)" -ForegroundColor Green
} else {
    Write-Host "Anonymous Auth: ENABLED (Bad!)" -ForegroundColor Red
}

# Check basic authentication (should be enabled)
$basicAuth = Get-WebConfigurationProperty -Filter "/system.ftpServer/security/authentication/basicAuthentication" -PSPPath
if ($basicAuth.Value -eq $true) {
    Write-Host "Basic Auth: ENABLED (Good)" -ForegroundColor Green
} else {
    Write-Host "Basic Auth: DISABLED" -ForegroundColor Yellow
}

# Check FTP logging

```

```

$logging = Get-WebConfigurationProperty -Filter "/system.ftpServer/log" -PSPath "IIS:\Sites\$siteName" -Name "logExtFile"
if ($logging) {
    Write-Host "Logging Enabled: YES" -ForegroundColor Green
} else {
    Write-Host "Logging Enabled: NO" -ForegroundColor Red
}

Write-Host "`n==== Audit Complete ====" -ForegroundColor Cyan

```

Example Names and Placeholders Used in This Guide

Throughout this guide, you'll need to replace example names with your actual values:

Example Used	What to Replace With
domain.local	YOUR actual domain name (e.g., contoso.com, company.local)
FTPSERVER01	YOUR actual FTP server hostname
10.0.0.100	YOUR FTP server's IP address
C:\FTPRoot	YOUR actual FTP root directory path
192.168.1.0/24	YOUR actual internal network range
FTP Users	YOUR AD group name for FTP access
Domain Admins	Standard AD group (usually doesn't need changing)
jsmith, mjones	YOUR actual usernames
domain\ftp_service	YOUR AD service account (format: domain\username)
Secure FTP Site	YOUR FTP site name in IIS
50000-50100	YOUR passive port range (can customize)
FTPSVC1	IIS automatically assigns this (FTPSVC + site number)

Additional Resources

- **Microsoft IIS FTP Documentation:** <https://docs.microsoft.com/iis/publish/using-the-ftp-service/>
- **FTP over SSL (FTPS) Guide:** <https://docs.microsoft.com/iis/publish/using-the-ftp-service/using-ftp-over-ssl>
- **Configuring FTP User Isolation:** <https://docs.microsoft.com/iis/publish/using-the-ftp-service/config>