

Tru64 UNIX Best Practice

Configuring and Administering the wu-ftpd Server for Anonymous FTP Access Using Internet Express

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Product Version: Internet Express Version 5.7

This Best Practice describes how to use Compaq Internet Express to configure and administer the wu-ftpd server for anonymous FTP access.

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Configuring and Administering the wu-ftp Server for Anonymous FTP Access

This document describes how you can use Internet Express to configure and administer the `wu-ftp` server on your *Tru64*TM UNIX system and use the default configuration values provided.

See the Tru64 UNIX Best Practices Web page for more information about Best Practices documentation.

Is This Best Practice Right for You?

Not all Best Practices apply to all configurations, so you must be sure that it is appropriate for your system and circumstances. To use this Best Practice, you must meet the requirements described in the following table:

Requirement	Description
Operating System	Tru64 UNIX Version 5.0A or higher
Product Version	Internet Express Version 5.7 or higher

If you do not meet the previous requirements, see *Alternative Practices* for information.

Before You Begin

Before you apply the Best Practice for Configuring and Administering the `wu-ftp` server for Anonymous FTP Access, you must understand some background information and perform some preliminary tasks.

FTP (file transfer protocol) is a client/server protocol that allows a user on one computer to transfer files to and from another computer over a TCP/IP network. When you set up an anonymous FTP account on your system, any remote user can access your system by means of the `ftp` or anonymous user name. Once logged in, the user has access to only a special directory hierarchy containing public files and can copy these files to another system using FTP.

You will need to make sure that the `ftp` home directory has enough disk space available. The `ftp` home directory is the root of the directory structure that you want to make visible to anonymous FTP users. It contains the `pub` directory, which is the repository for all publicly available documents. There is also a `bin` directory, which contains the programs used by `wu-ftpd` for `compress`, `uncompress`, and `tar` download options. These directories are created under `/data/ftp` by default but can be created elsewhere.

Ensure that the `pub` and `bin` directories have enough space for the files you plan to make available to remote systems and for the files you expect users to copy there from remote systems.

For more information on the use of anonymous FTP, see the FTP Server Administration chapter in the *Internet Express Administration Guide*.

Applying the Best Practice

Before you configure the `wu-ftpd` server, be sure to follow the recommendations in *Before You Begin*.

The Internet Express CD-ROM labeled "Installation and Documentation" contains the `wu-ftpd` server, as well as other Internet software. To configure and administer the `wu-ftpd` server, you should:

1. Obtain a copy of the Internet Express kit. See *Obtain the Internet Express Kit*.
2. Install the Internet Express Administration utility (subset IAEADM). See *Install the Administration Utility*.
3. Use the FTP option to verify the system software installation prerequisites and install the `wu-ftpd` server (subset IAEFTP). See *Install the wu-ftpd Server*.
4. Create an anonymous FTP account. See *Create an Anonymous FTP User Account*.
5. Modify FTP server configuration if necessary. See *Configure the FTP Server*.
6. Enable anonymous FTP access. See *Enable Anonymous FTP Access*.

Obtain the Internet Express Kit

Compaq includes the Internet Express CD-ROM with Tru64 UNIX *AlphaServer*[™] systems. If you need the Internet Express CD-ROM, you

can contact your Compaq representative. The part number for the Internet Express Kit is QB-3NCAA-SA.

Install the Administration Utility

To install the Administration utility subset (IAEADM), follow the instructions in the *Internet Express for Tru64 UNIX Installation Guide*. The Internet Express installation procedure automatically selects prerequisite subsets for installation.

Install the wu-ftp Server

To install the wu-ftp server subset (IAEFTP), follow the instructions in the *Internet Express for Tru64 UNIX Installation Guide*. The Internet Express installation procedure lets you select the subsets you want to install. Select the IAEFTP subset to install the latest version of the wu-ftp server. The Internet Express installation procedure configures the wu-ftp server for you.

After you install this subset, you can use the Internet Express Administration utility to configure the FTP server for anonymous access.

Create an Anonymous FTP User Account

To create the anonymous FTP account on your system, follow these steps:

1. From the Administration utility main menu, choose Manage Components.
2. Under File Transfer on the Manage Components menu, choose FTP Server.
3. On the FTP Server Administration menu, choose Create/Modify FTP User Account.
4. On the Create FTP User Account form, enter the following information or use the default values provided:

Minimum UID
ftp Group Name
ftp Home Directory

5. Click on Submit to create the anonymous FTP account.

Configure the FTP Server

The FTP server configuration information is automatically stored in the `/usr/local/etc/ftpdaccess` file during installation of `wu-ftpd`. To modify the FTP server configuration, follow these steps:

1. On the Administration utility Main menu, choose Manage Components.
2. Under File Transfer on the Manage Components menu, choose FTP Server.
3. On the FTP Server Administration menu, choose Modify FTP Server Configuration.
4. The following configuration information can be modified:

Configuration Information	Description
Service Classes	The default is to allow all users to connect to the FTP server.
Access Limits	The default is to accept connections all day on any day of week.
Denied Hosts List	The default is to allow access to all hosts and domains specified by service classes you created.
User Permissions	The default is to allow the standard FTP operations: <code>chmod</code> , <code>delete</code> , <code>overwrite</code> , <code>rename</code> , and <code>umask</code> .
Logging Behavior	The default is to log FTP commands entered by real users.
Virtual Host	Alias name assigned to FTP server. There is no default.

With the `wu-ftpd` server, anonymous uploads are disabled by default. If you want to enable anonymous uploads, then you have to modify the `/etc/ftpdaccess` file.

Enable Anonymous FTP Access

To enable the FTP server, follow these steps:

1. On the Administration utility main menu, choose Manage Components.
2. Under File Transfer on the Manage Components menu, choose FTP Server.
3. On the FTP Server Administration menu, choose Enable/Disable Anonymous FTP Access.

4. Click on Enable.

Shut Down the FTP Server

To shut down or activate the FTP server, follow these steps:

1. On the Administration utility Main menu, choose Manage Components.
2. Under File Transfer on the Manage Components menu, choose FTP Server.
3. On the FTP Server Administration menu, choose Shut Down the FTP Server.
 - If the FTP server is active, you can specify a time to shut down the FTP server.
 - If the FTP server is inactive, you can choose Disable FTP Server Shutdown to activate or restart the FTP server.
4. Click on Submit.

Verifying Success

After you apply the Best Practice for Configuring and Administering the `wu-ftpd` server, you can use the following criteria to verify whether it was successful:

- You successfully installed the `wu-ftpd` server and Administration utility from Internet Express.
- You created the anonymous FTP account.
- You enabled the FTP server.
- Users can use FTP to access the host system.

If the Best Practice was not successful, see *Troubleshooting* for information about identifying and solving problems.

Troubleshooting

If you determine that the Best Practice was not successful, as described in *Verifying Success*, use the following table to identify and solve problems:

Problem	Possible Solutions
An Internet Express subset did not install.	Review the installation procedures described in the <i>Internet Express for Tru64 UNIX Installation Guide</i> .
You could not start the FTP server.	The <code>wu-ftpd</code> server might not have been properly installed. Remove and then reinstall the <code>wu-ftpd</code> server.
Users cannot use FTP to access the host system.	Verify that the <code>wu-ftpd</code> server configuration information is correct.

Alternative Practices

Although this Best Practice is the recommended method for configuring and administering the `wu-ftpd` server, if your system does not meet the requirements described in *Is This Best Practice Right for You?*, you can use an alternative method.

Copy and install the kit located at <http://www.wu-ftpd.org>.

Comments and Questions

We value your comments and questions on the information in this document. Please mail your comments to us at this address:

best_practices@zk3.dec.com

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