FEDERAL TECHNICAL & VOCATIONAL EDUCATION & TRAINING INSTITUTE (TVETI) ADDIS ABABA, ETHIOPIA MASTER OF SCIENCE IN ICT TEACHERS EDUCATION

Operation Sheet 3.3 : FTP Server in Windows Server 2012 R2



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ICT 543 - SERVER ADMINISTRATION

LEARNING GUIDE 3

Operation Sheet 3.3

Installing and Configuring FTP Server in Windows 2012 Server

Objectives: After the end of the activity, the students will be able to:

- Install and Configure FTP Server
- > Integrate FTP Serve with IIS Web Server
- > Test FTP server from the client using FileZilla

Procedure:

FTP (File Transfer Protocol) is a very popular protocol that allows users to upload and download files easily. At first, install the FTP server role. In Server 2012, you can install FTP server role under the IIS server role.

Step 1: Open Server Manager. On the menu, click Manage and click Add Roles and Features. Click Next on Before You Begin window. Click Role-based or feature based installation and click Next.

Add Rol	es and Features V	/izard	
n type			DESTINATION SERVER MBG-DC1.mustbegeek.com
Select the installation typ machine, or on an offline Role-based or featu Configure a single ser Remote Desktop Se Install required role se or session-based desk	ee. You can install role e virtual hard disk (VH re-based installation ver by adding roles, ra rvices installation ervices for Virtual Desi top deployment.	s and features on a running physi D). ole services, and features. stop Infrastructure (VDI) to create	ical computer or virtual a virtual machine-based
lick Next again.			
Add Ro	les and Features	Wizard	_ 🗆 X
n server			DESTINATION SERVER MBG-DC1.mustbegeek.com
Select a server or a virtu	ual hard disk on which	to install roles and features.	
Select a server from	the server pool		
O Select a virtual hard	disk		
Server Pool			
F (1)			
Filter:			
Name	IP Address	Operating System	
	Add Rol Select the installation typ machine, or on an offline Role-based or featu Configure a single ser Remote Desktop Se Install required role se or session-based desk Elick Next again. Add Ro Select a server or a virtu Select a server from Select a virtual hard Server Pool Filter: Name	Add Roles and Features W type Select the installation type. You can install role machine, or on an offline virtual hard disk (VHI Role-based or feature-based installation Configure a single server by adding roles, role of the configure a single server by adding roles, role of the configure and the configure of the services for Virtual Desk or session-based desktop deployment. Click Next again. Add Roles and Features To Select a server or a virtual hard disk on which Select a server from the server pool Select a virtual hard disk Server Pool Filter: Name	Add Roles and Features Wizard type Select the installation type. You can install roles and features on a running physimachine, or on an offline virtual hard disk (VHD). Role-based or feature-based installation Configure a single server by adding roles, role services, and features. Remote Desktop Services installation Install required role services for Virtual Desktop Infrastructure (VDI) to create or session-based desktop deployment. Elick Next again. Add Roles and Features Wizard Select a server or a virtual hard disk on which to install roles and features. Select a server or a virtual hard disk on which to install roles and features. Select a server from the server pool Select a virtual hard disk Server Pool Filter: Name IP Address Operating System

Step 2: Now, expand the web server (IIS) role. Select the FTP server and click Next.

à	Add Roles and Features Wizard	_ D X
Select server roles Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Add Roles and Features Wizard Select one or more roles to install on the selected server. Roles Hyper-V Hyper-V Network Policy and Access Services Print and Document Services Remote Access Remote Access Remote Desktop Services Nolume Activation Services Nolume Activation Services Web Server (IIS) (Installed) Network Policy Installed) Network Policy Installed	DESTINATION SERVER MBG-DC1.mustbegeek.com Description FTP Server enables the transfer of files between a client and server by using the FTP protocol. Users can establish an FTP connection and transfer files by using an FTP client or FTP-enabled Web browser.
	✓ FTP Service ✓ FTP Extensibility □ IIS Hostable Web Core ▷ ■ Management Tools (Installed) □ Windows Deployment Services ▷ ■ Windows Server Update Services (Installed)	
	< Previous Next	> Install Cancel

Step 3: We don't need to add any features, so click Next again. Click Finish on the Confirmation window.

a	Add Roles and Features Wizard	_ 	
Confirm installat	ion selections	DESTINATION SERVER MBG-DC1.mustbegeek.com	
Before You Begin	To install the following roles, role services, or features on selected server	r, click Install.	
Installation Type	Restart the destination server automatically if required		
Server Selection	Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.		
Server Roles			
Features			
Confirmation Results	Web Server (IIS) FTP Service		
	Export configuration settings Specify an alternate source path		
	< Previous Next >	Install Cancel	

Step 4: After installing FTP server role, open the Internet Information Services (IIS) console. Connect to the local server. Expand the local server.



Step 5: Right-click the sites and click Add FTP Site.



Step 6: Now type the name for the FTP site. Configure the folder where the files will be stored. Create some files in the folder for test purpose. I will create a file and a folder. These files will be accessed via FTP client by users. Now click Next.

	Add FTP Site	? ×
Site Information		
FTP site name: FTP Server Content Directory Physical path: C:\FTP Contents		
	Previous Next Finish	Cancel

Step 7: Configure the IP address of this server. The IP address must match the address configured in the network adapter of this server. This IP address will be used by client to access the FTP server. Check the start FTP site automatically. Choose No SSL and click Next.

	Add FTP Site	ĸ
Binding and SSL Settings		
Binding		
IP Address:	Port:	
192.168.1.1 🗸	21	
Enable Virtual Host Names:		
Virtual Host (example: ftp.contoso.com):		
Start FTP site automatically		
SSL No SSI		
C Require SSL		
SSL Certificate:	Colort View	
Not Selected	View.	
		1
	Previous Next Finish Cancel	

Step 8: Choose Basic for authentication. Basic authentication doesn't use encryption mechanism so username/password are sent in clear text. By default, basic authentication matches username/password from Active Directory database or you can create user accounts in IIS. You can create users in IIS after installing Management Server under Management Tools which is in Web Server (IIS) role. Under authorization, select all users to allow FTP access to all users of the domain. Check both read and write under permissions.

Add FTP Site	? X
Authentication and Authorization Information	
Authentication Anonymous Basic	
Authorization Allow access to: All users v Permissions Read V Write	
Previous Next	Finish Cancel

Step 9: Now browse FTP server from the client machine. Type the IP address on the browser as *ftp://192.168.1.1/*. It will show the following page.



Step 10: Using FileZilla to upload file from the client machine

To Connect to Your Web Server

- a) In the FileZilla Quick Connect bar at the top of the page, enter your Web site URL in the Hostfield. For example,**www.tveti.com**
- b) Enter your FTP user name and password (you can leave thePort field blank).
- c) 3. Click Quickconnect.

Host: Username	Pass <u>w</u> ord:	Port: Quicko	onnect 💌
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- d)
- e) While FileZilla connects to your Web server, a number of messages display in the messlog. To Transfer Your Web Site, in theLocal Site pane, navigate to the location of your Web site.
- f) Select the files you want to upload to your Web site. You can select multiple files by holding down theCtrl key and clicking on the files you want.
- g) Drag the files you want to transfer from theLocal Sitepane to the Remote Site pane.
- h) FileZilla automatically transfers your files to your Web site.
- i) When you are finished uploading your files, close FileZilla and check your Web site in your favorite browser to make sure that your files uploaded correctly.