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Windows Server Administration

Lab 6

Administering Windows: File Server

Developed by Tallahassee Community College at Jacksonville for iNoVATE-X #1501359 (S-STEM)

Administering Windows Lab 6: File Server



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Introduction

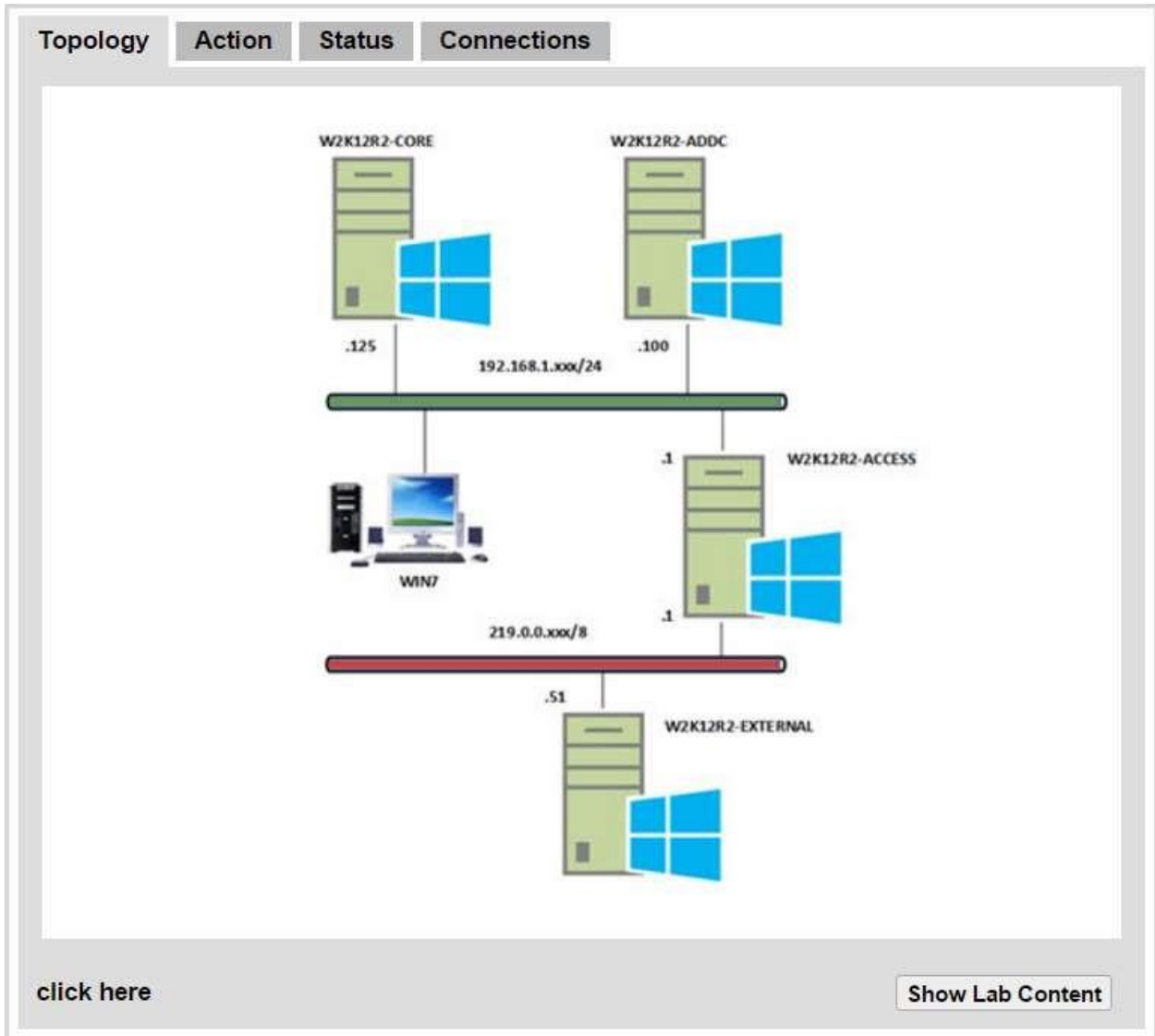
For this module, you will take a look at some of the features that are available to manage a file server. This module will show you how to manage permissions, folders, and any other area that is related to this service

Objectives

- Install File Server Feature
- Manage File Server
- Create a File Share



Topology



Lab Settings

Server: W2K12R2-ADDC
User Name: Administrator
Password: P@ssw0rd1

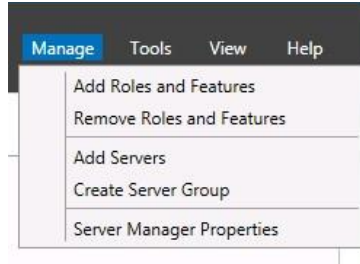
Additional info



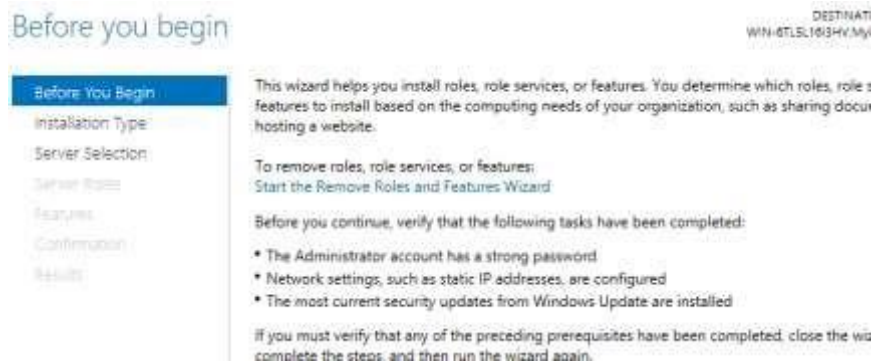
1 File Server

1.1 Log in to W2K12R2-ADDC as the Administrator

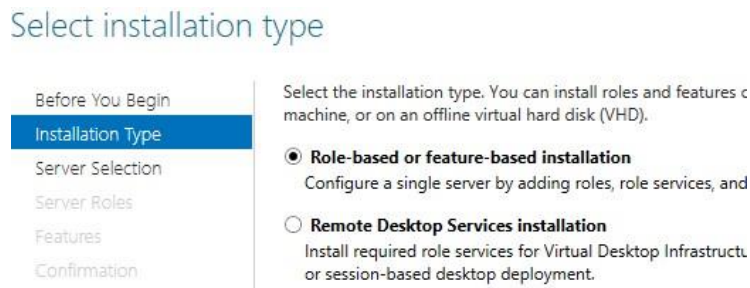
1.2 Let us begin by installing all the options for the File server. You will notice that by default, some of the options were installed for the file server once you installed AD. However, for this lab, we are going to go ahead and install the entire role. Under Server Manager, click Manage and Add Roles and Features



1.3 Review the Before you Begin windows and click next



1.4 Select Role-based since this installation is performed on the same server you are working on. If you were installing this role on another server other than the one you are logged into, then you select the Remote install.

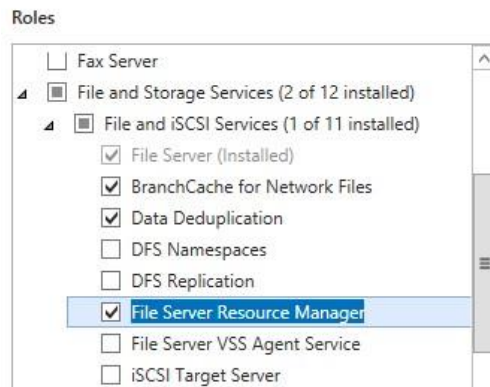


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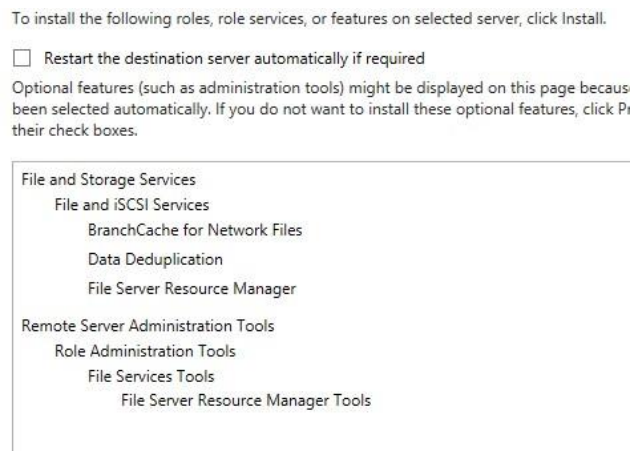
1.5 Select the default location of where the role will be installed.



1.6 Next, you will see that the File Server role has 1 item that has been installed. Check the File Server Resource Manager and leave all other options checked.



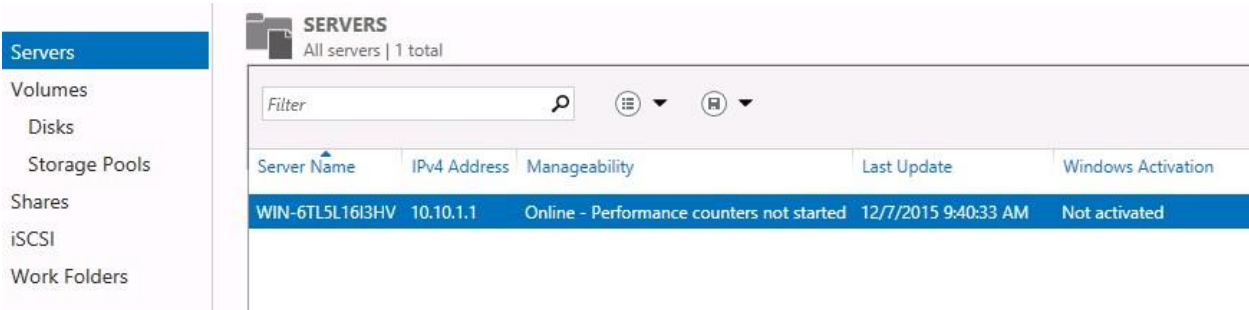
1.7 Under features, just leave the default options and click next. Review the options installed and select install.



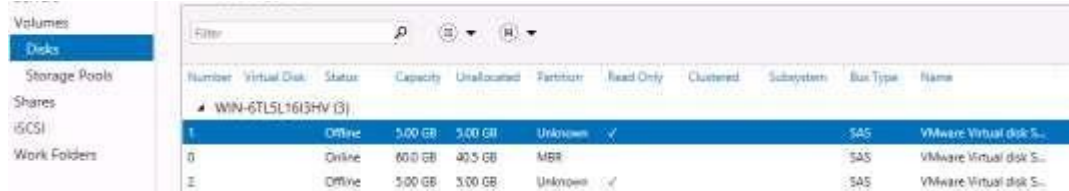
1.8 This process may take a moment. Some of the services require a restart after the install is complete. However, this service does not require a restart.

1.9 File and Storage Services has been in your dashboard, but this time, let us go ahead and open it.

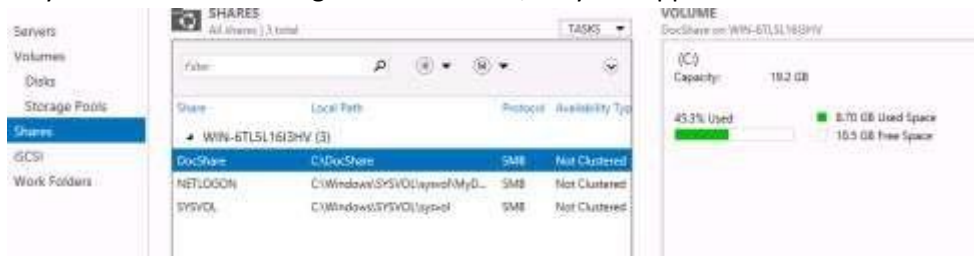
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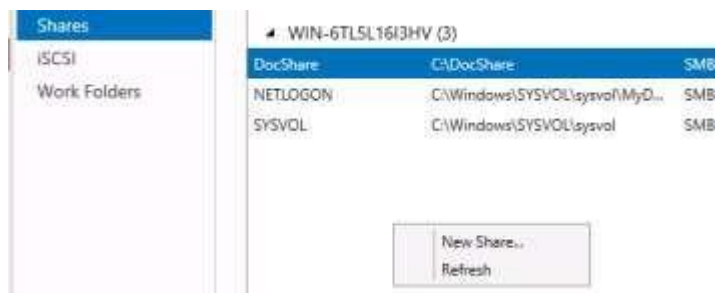
- 1.10 You will notice that the servers that are included in the pool appear below. Since we are only dealing with one service, you will notice that it has one option. Within this option, you will notice that the volumes, disk, storage pools, and shares, among other, appear as configurable options. Click on Disk and you will see all the available disk resources that are used for File Servers. Depending on your configuration, you may see the screen shot below:



- 1.11 Let us now navigate to the Shares. You will notice that only the default shares appear in the screen. If your server was sharing other resources, they will appear here.



- 1.12 For this demonstration, let us go ahead and create a new share by right clicking in the shares window. You are prompted with two options. Select New Share.

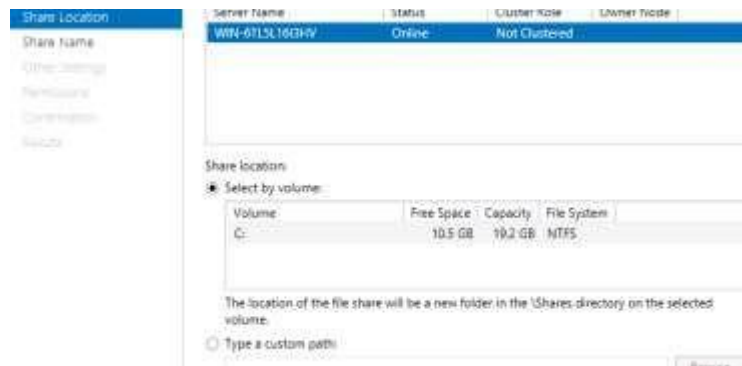


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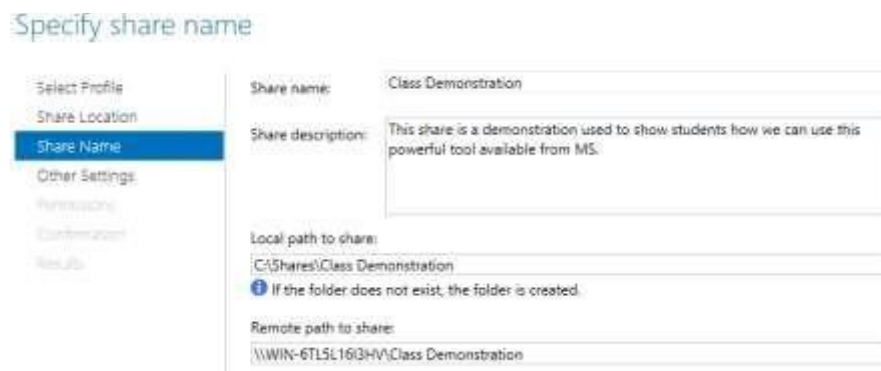
- 1.13 You now have various options of what type of share you would like to create. You can read the description for each option. For this demonstration, select SMB Share Quick and then next



- 1.14 You can then select the path location of the share. You can select any location that is available to the Server. However, for this section, select next as we will choose the defaults.



- 1.15 The next window will provide you the ability to name the share and add a description. It is always important to use a meaningful name and description. This will prove very beneficial in the future when you are managing many shares.



- 1.16 For the configuration options, you will select the default option and click next.

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Configure share settings



1.17 You can then select the permissions for users or groups in the next window. Permissions can be changed at any time. However, for this demonstration, let us take the default and hit next.

Specify permissions to control access

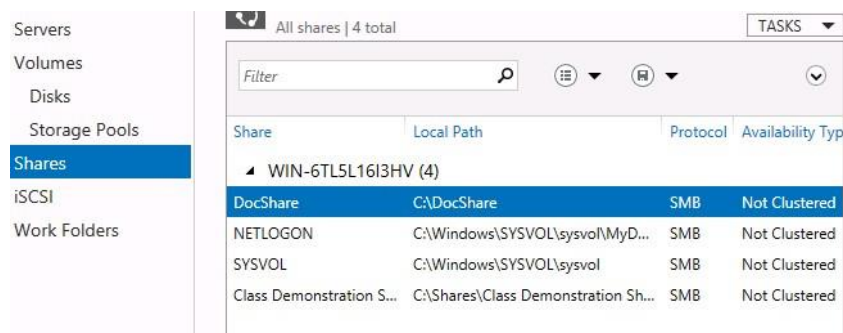


1.18 Review your changes and when complete select create.

Confirm that the following are the correct settings, and then click Create.



1.19 When complete, select close. You will now notice that the share that you created appears in the share window.

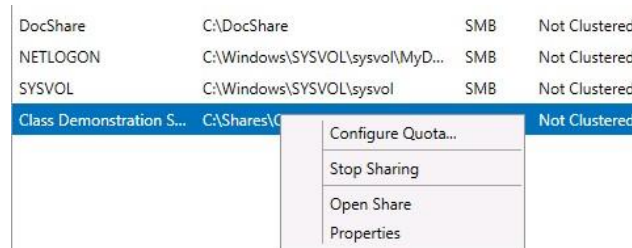


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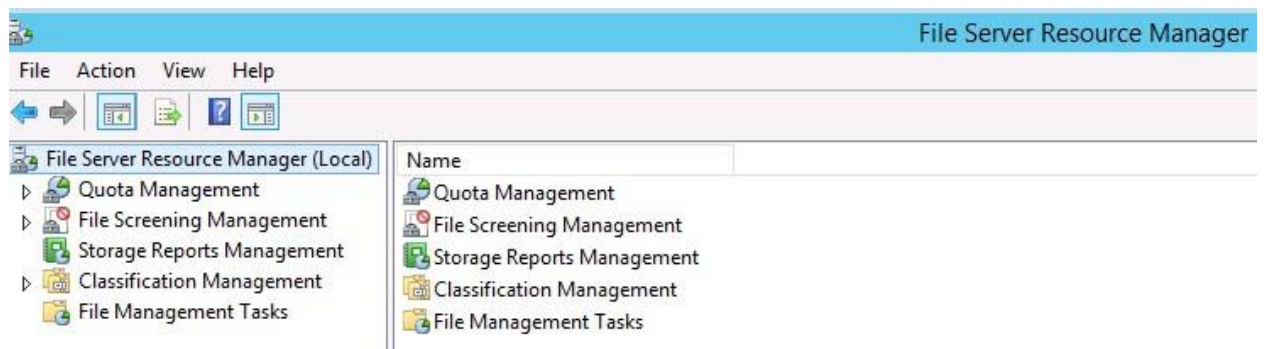


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- 1.20 You can make additional configuration changes to that share by right clicking it. From there, we can stop the share, open it, and even set a quota so that users use a specific amount of hard drive space. You can also make changes to the permissions by selecting properties, among other changes



- 1.21 When complete, close any windows and go back to Server Manager. From Server Manager, click Tools and select File Server Resource Manager.



- 1.22 In this tool, you will have the ability to manage all things related to File Server. For example, here you can set up quotas to allow certain amount of hard drive space for users or groups. From here, you can also select what type of files you will allow people to store in their shares. For example, if you do not want people to store movies, then you can block audio and video files. In addition, you can also set up reports that will show you how the shares being used by your customers. This tool is very powerful in organizations where using the File Server mandatory.

It is best practice to enforce people to use the file server instead of their desktops. It is much easier to manage the file servers and resources placed in the file server will be available and not dependent on an individual to leave their desktop turned on to share a resource from their computer.

When complete, close the windows and go back to Server Manager.