

A *workgroup* is a simple association of computers on a network that makes it easy to locate shared files and printers. Workgroups don't have sophisticated directory databases, so they can't enforce strict security.

Workgroups should be used only for tiny networks with just a few users. Truthfully, any network that is large enough to have a dedicated server running Windows Server 2019 is too large to use workgroups. So, if you're installing a Windows server, you should always opt for domains.

After you decide to use domains, you have to make two basic decisions:

- » **What will the domain name be?** If you have a registered Internet domain name, such as `mydomain.com`, you may want to use it for your network's domain name. Otherwise, you can make up any name you want.
- » **What computer or computers will be the domain controllers for the domain?** If this server is the first server in a domain, you must designate it as a domain controller and take steps to create the domain. (I explain how to do that later in this chapter.) If you already have a server acting as a domain controller, you can either add this computer as an additional domain controller or designate it a member server.



TIP

You can always change the role of a server from a domain controller to a member server, and vice versa, if the needs of your network change. If your network has more than one server, it's always a good idea to create at least two domain controllers. That way, if one fails, the other one can take over.

Running Setup

Now that you've planned your installation and prepared the computer, you're ready to run the Setup program. The following procedure describes the steps that you must follow to install Windows Server 2019 on a virtual machine using an ISO image of the installation DVD. Before you begin this procedure, you'll need to download the ISO file from Microsoft's website. And you should set up a virtual machine and mount the ISO file to the VM's DVD/CD drive. (To find out how to set up a VM using Microsoft's Hyper-V, refer to Chapter 10.)

- 1. Configure the new virtual machine with the specifications you want to use, mount the installation ISO file on the virtual DVD drive, and start the VM.**

After a few moments, the Windows Setup Wizard fires up and asks for your language, time and currency format, and keyboard layout.