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Part 2: Lesson 14 covers Failover Clustering, which is a group of servers working together to maintain balance for the applications and the services. They support each other by supporting the server or node if it fails, and the other nodes or server will take over the workload of it. Running the same applicant also helps with performance and reliability. There are also requirements when it comes to Failover Cluster. The nodes of the cluster should have the same configurations. All nodes should also be run by the same operating system, and have the same updates with the operating systems. The nodes should have shared storage and separate networks.

There are many PowerShell cmdlets like ‘get-module -listavailable’ which shows files that are installed and can be imported to PowerShell, ‘import-module failoverclusters’, which imports modules, ‘get-clustergroup’, which lists the resources and shows whether their offline or online, ‘get-clustergroup | findstr’ Failed, and many more that manages it in different ways. To access Failover Cluster manager, you will have to install it, by going to Server Manager and clicking Manage and going to add Roles and Features. Then On Before You Begin page click next. Then you will select the type of installation, just make sure that Role-based or Feature-based installation, and then click next. On the Destination Server page make sure that the local server is picked. Then Select Server Roles, then click next. Then on the Select Features page pick Failover Clustering. Then on the Add Features That Are Required for Failover Clustering window, and add Features and then click next, and Install it, and you’re done.

Lesson 15 covers Managing Failover Clustering. Role-Specific Settings is when you install cluster roles, and they each have their own settings that are a specific function. There are multiple roles that a cluster can function as such as, DFS Namespace Server, which gives you a view of the files. DHCP Server, which provides configuration information for TCP/IP. Distributed Transaction Coordinator, which supports transactions. File Server gives you a center location for shared files. Generic Application, which provides high availability for applications that can’t run on clusters. Generic Script gives off the role for high availability for scripts. Generic Service, just like Generic Application but instead of applications applies high availability for services that are not designed to work with clusters. Hyper-V replica Broker permits Hyper-V Replica. iSCSI Target Server, provides SCSI storage. iSNS Server, which provides discovery of iSCSI Targets. Message Queuing, which permits distribute applications to communicate with systems that might be temporarily offline. Other Server help clients gain access points and storage, Virtual Machine, which is when a physical host system is running. WINS Server lets older systems use NetBIOS.

Part 3: The methods I will use to train and enhance user knowledge is to be mindful and open, experiment, and applying self-analysis. A great way to obtain and gain more knowledge will be to be more open minded and mindful. Being open to different opportunities and different possibilities. Knowing that everything can be a learning moment if you pay close attention to what you are doing. Also knowing that experiences are valuable. They can be taught lesson that help them open up their mind to better ways of working and thinking. Being open minded also shows positivity, and when you have an open mind, you look and think about things more rationally and versatile.

Another way they can enhance their knowledge is by experimenting. By experimenting you can gain knowledge of the work you do by practicing and learning the details and work needed to be done to complete the task. It is always a good idea to experiment, because when we experiment it helps us with our decisions by making more informed choices, when it comes to our ideas and projects. It is always good to test your assumptions, and by testing them you can see if your idea or concept is going to work or go as plan.

Another way to enhance knowledge is to self-analysis themselves and even analyzing them yourself. Doing that will help them see what they need to work on and what they need to fix. Seeing their strength and weakness will allow them to focus more on the things they need to improve on instead on focusing on the wrong thing. Getting to know their abilities and skills is a great thing to do, so you can know what job to assign them.

References

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