**Part 1: Using Windows Container Networking**

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Windows container network is an operating system that separates applications and services from other applications and services used by the same host used by containers. When using Windows container network it requires network connectivity, because it helps the network environment run efficiently with applications that are isolated on a single system. Windows Containers attach to the host network by using a mode or driver. Windows containers share a kernel with the host, and because it shares the same kernel as the main host, they both have to be on the same configuration.

Windows containers are similar to Virtual Machines. Using Windows containers you can deploy Hyper-V host, which is connected to a virtual network adapter. Using that you can make one or more Virtual Machines and inside those containers are made. Docker are used as a management surface, and Windows Host Network Service is also used in order as a service layer, which creates the network.

Managing containers, you can use PowerShell. PowerShell is “a cross-platform task automation solution made up of a command-line shell, a scripting language, and a configuration management framework. PowerShell runs on Windows, Linux, and macOS.” Using PowerShell, you can run different commands for containers, by running “Get-Command” There are six different commands you can run. The command “Get-Command -Module Containers”, which displays a list off all the containers. “Start-Container”, which starts a stopped container.” "Stop-Container”, which stops a running container. “Enter- ContainerSession” or “Attach-Container”, which connects a session on a running container. “ConvertTo-ContainerImage” or “Commit-Container”, which creates a new image. “Remove-Container”, which removes a container.

References

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