

Windows Server Lab Guide Using Hyper-V on Windows 10 Pro

PowerShellNewbie.com

Configuring 1 Virtual Machine as DC, 1 Virtual Machine as APP server, & 1 Windows 10 Client

1. Configure Server2012r2 as DC (Run these commands on virtual machine DC in PowerShell console)
 - a. New-NetIPAddress 10.0.0.1 -InterfaceAlias "Ethernet" -PrefixLength 24
 - b. Set-DnsClientServerAddress -InterfaceAlias "Ethernet" -ServerAddresses 127.0.0.1
 - c. Rename-Computer DC
 - d. Restart-Computer
 - e. Install-WindowsFeature AD-Domain-Services, DHCP -IncludeManagementTools
 - f. Install-ADDSForest -DomainName corp.packtlab.com
 - g. Add-DhcpServerv4Scope -name "PacktLabNet" -StartRange 10.0.0.50 -EndRange 10.0.0.100 -SubnetMask 255.255.255.0
 - h. Set-DhcpServerv4OptionValue -DnsDomain corp.packtlab.com -DnsServer 10.0.0.1
 - i. Add-DhcpServerInDC -DnsName dc.corp.packtlab.com
 - j. New-ADUser -SamAccountName SysAdmin -AccountPassword (read-host "Set user password" -assecurestring) -name "SysAdmin" -enabled \$true -PasswordNeverExpires \$true -ChangePasswordAtLogon \$false
 - k. Add-ADPrincipalGroupMembership -Identity "CN=SysAdmin,CN=Users,DC=corp,DC=packtlab,DC=com" -MemberOf "CN=Enterprise Admins,CN=Users,DC=corp,DC=packtlab,DC=com","CN=Domain Admins,CN=Users,DC=corp,DC=packtlab,DC=com"
 - l. Get-ADPrincipalGroupMembership sysadmin
2. Configure Server 2016 as APP (Run these commands on virtual machine APP in PowerShell console)
 - a. New-NetIPAddress 10.0.0.3 -InterfaceAlias "Ethernet" -PrefixLength 24
 - b. Set-DnsClientServerAddress -InterfaceAlias "Ethernet" -ServerAddresses 10.0.0.1
 - c. Add-Computer -NewName APP -DomainName corp.packtlab.com
 - d. Restart-Computer
 - e. New-Item -path c:\networkfiles -type directory
 - f. Write-Output "This is a test network file." | out-file c:\networkfiles\test.txt
 - g. New-SmbShare -name files -path c:\networkfiles -changeaccess CORP\SysAdmin
3. Configure CLIENT and Test (Run these commands on virtual machine CLIENT in PowerShell console)
 - a. Add-Computer -NewName CLIENT -DomainName corp.packtlab.com
 - b. Restart-Computer
 - c. Log into CLIENT as SysAdmin
 - d. Open file explorer and go to [\\app\](#)
 - e. You should see a folder named Files, open it and then the file test.txt

You now have a Windows Server lab that you created with PowerShell!

Using similar commands with a few changes such as IP addresses and hostnames you can add more virtual machines if you choose.