Basic Home Lab Running Active Directory

Internet

Power Shell

VMware network

360 Users

Client 1

Windows 11 ISO

B

NIC

(Internet)

net)

DC

(Server)

NIC

(Internal)

NIC

(Internal)

(DHCP) IP: 172.16.0.1 (DHCP)

Will get addressing Mask: 255.255.255.0 Will get addressing

From home router Gateway: <empty> from DC

DNS: 127.0.0.1

*Verify Windows 11 Virtualization is Enabled*

**Domain / AD DS RAS / NAT DHCP (1 Scope)**

*Enable Hyper-V*

*FQDN: mydomain.com Outside: Internal Range: 172.16.0.100-200*

Inside: Internal Mask: 255.255.255.0

Gateway: 172.168.0.1 DNS: 172.16.0.1

*Windows 11 Home*

Windows Server 2019 ISO

[**Download and install Windows 11 Home from the official website.**](https://www.microsoft.com/en-us/d/windows-11-home/dg7gmgf0krt0)

**[Download and install Hyper-V Server 2019 (ISO).](https://info.microsoft.com/ww-landing-microsoft-hyper-v-server-2019.html)**

[**Check and Enable Virtualization in Windows 11.**](https://support.gala.games/posts/4872005)

A screenshot of a computer

Description automatically generated

[**Enabling Hyper-V for use on Windows 11**](https://techcommunity.microsoft.com/t5/educator-developer-blog/step-by-step-enabling-hyper-v-for-use-on-windows-11/ba-p/3745905)**.**

A screenshot of a computer

Description automatically generated

Create a new virtual machine by clicking on “New” in Hyper-V, naming it “Domain Controller,” and selecting the "Windows Server 2019” ISO file as the boot media.

A screenshot of a computer

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**Create Virtual Hard Disk:**

A screenshot of a computer

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**Installation Options (ISO)**

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