

Slide 1

**How to configure IPv6 in a Microsoft environment
in**

4 SLIDES

Slide 2

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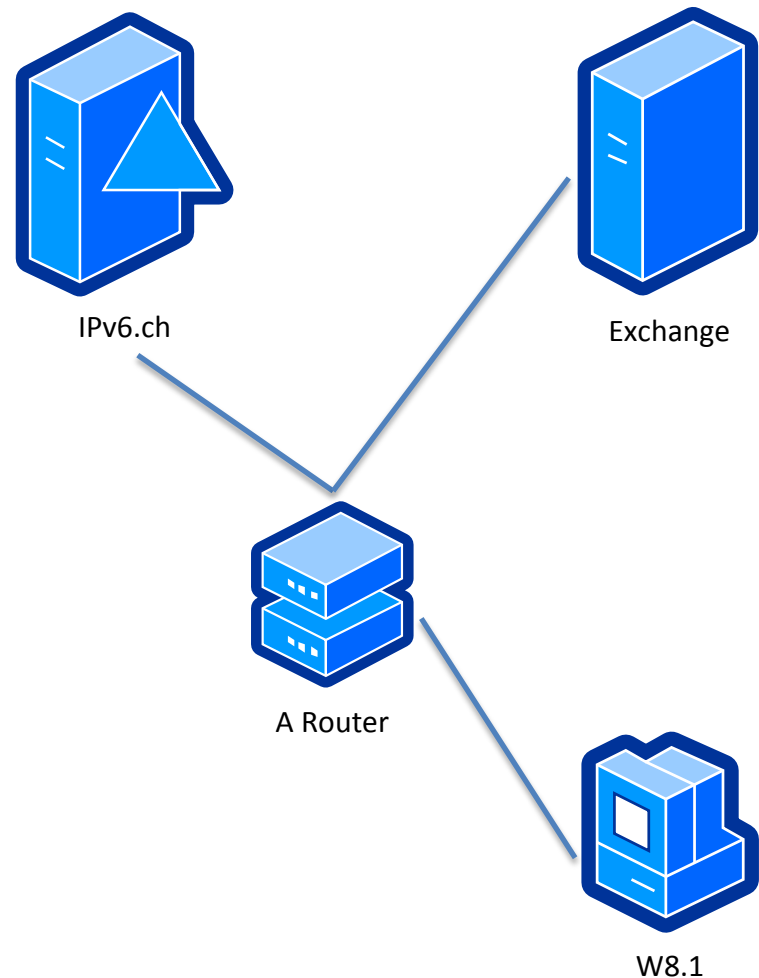
Slide 3

Before break

- Demo 1: Configure IPv6
- Demo 2: Powershell
- Demo 3: IPv6 over IPv4

After break

- Demo 4: DHCPv6
- Demo 5: IIS
- Demo 6: Exchange



Slide 4



Demo 3

- <Get IP Address>
- Get-NetIPAddress
- Get-NetIPAddress | fl interfaceAlias, Interfaceindex, IPv6Addressipconfig
- Get-NetIPAddress -AddressFamily IPv6 | fl interfaceAlias, Interfaceindex, IPv6Address

<Enter IP address>

- New-NetIPAddress -AddressFamily IPv6 -
IPAddress 2001:db8:617:1::ff -InterfaceIndex
15 -PrefixLength 64
- New-NetIPAddress -AddressFamily IPv6 -
IPAddress 2001:db8:617:2::ff -InterfaceIndex
16 -PrefixLength 64

<Enter DNS server>

- Set-DnsClientServerAddress -InterfaceIndex 15
-ServerAddresses 2001:db8:617:1::1
- Set-DnsClientServerAddress -InterfaceIndex 16
-ServerAddresses 2001:db8:617:1::1
- Ping -6 dc01

Demo 4

- <IP Configurantion with powershell>
- New-NetIPAddress -AddressFamily IPv6 -
IPAddress 2001:db8:617:2::8:1 -InterfaceIndex
3 -PrefixLength 64 -Defaultgateway
2001:db8:617:2::ff
- Set-DnsClientServerAddress -InterfaceIndex 3
-ServerAddresses 2001:db8:617:1::1

<Disable tunnels>

- Get-Net6to4Configuration
- set-Net6to4Configuration -state disable
- netsh interface isatap set state state=disabled

Demo 5

- <Publish Prefix>
- Get-NetRoute -AddressFamily IPv6 –InterfaceIndex 16
- set-NetRoute -AddressFamily IPv6 -InterfaceIndex 16 - Publish Yes
- Get-NetIPInterface -InterfaceIndex 16 | FL
- Set-NetIPInterface -AddressFamily IPv6 -Advertising enabled -AdvertiseDefaultRoute enabled - InterfaceIndex 16
- Set-NetIPInterface -InterfaceIndex 16 - OtherStatefulConfiguration enabled

Exchange

- New-NetIPAddress -AddressFamily IPv6 -IPAddress 2001:db8:617:1::25:1 -InterfaceIndex 15 -PrefixLength 64 -Defaultgateway 2001:db8:617:1::ff
- Set-DnsClientServerAddress -InterfaceIndex 15 -ServerAddresses 2001:db8:617:1::1
- New-NetIPAddress -AddressFamily IPv6 -IPAddress 2001:db8:617:1::3389:1 -InterfaceIndex 15
- New-NetIPAddress -AddressFamily IPv6 -IPAddress 2001:db8:617:1::80:1 -InterfaceIndex 15
- New-NetIPAddress -AddressFamily IPv6 -IPAddress 2001:db8:617:1::443:1 -InterfaceIndex 15