

Implement Hybrid Network Connectivity



Tim Warner

Principal Author Evangelist, Pluralsight

@TechTrainerTim TechTrainerTim.com



Overview



Hybrid cloud app publishing

- Implement Web Application Proxy
- Implement Azure AD Application Proxy
- Implement Azure Relay

Hybrid cloud infrastructure

- Implement site-to-site virtual private network (VPN)
- Implement Azure Virtual WAN



Implement and Manage On-Premises and Hybrid Networking Infrastructure

Implement On-Premises and Hybrid Name Resolution

Manage IP Addressing in On-Premises and Hybrid Scenarios

Implement On-Premises Network Connectivity

Implement Hybrid Network Connectivity



Windows Server Hybrid Administrator Associate

Take two exams



CERTIFICATION EXAM **AZ-800**
**Administering Windows Server
Hybrid Core Infrastructure**

AND



CERTIFICATION EXAM **AZ-801**
**Configuring Windows Server
Hybrid Advanced Services**

Earn the certification



ASSOCIATE CERTIFICATION
**Microsoft Certified:
Windows Server Hybrid
Administrator Associate**



Hybrid Cloud App Publishing

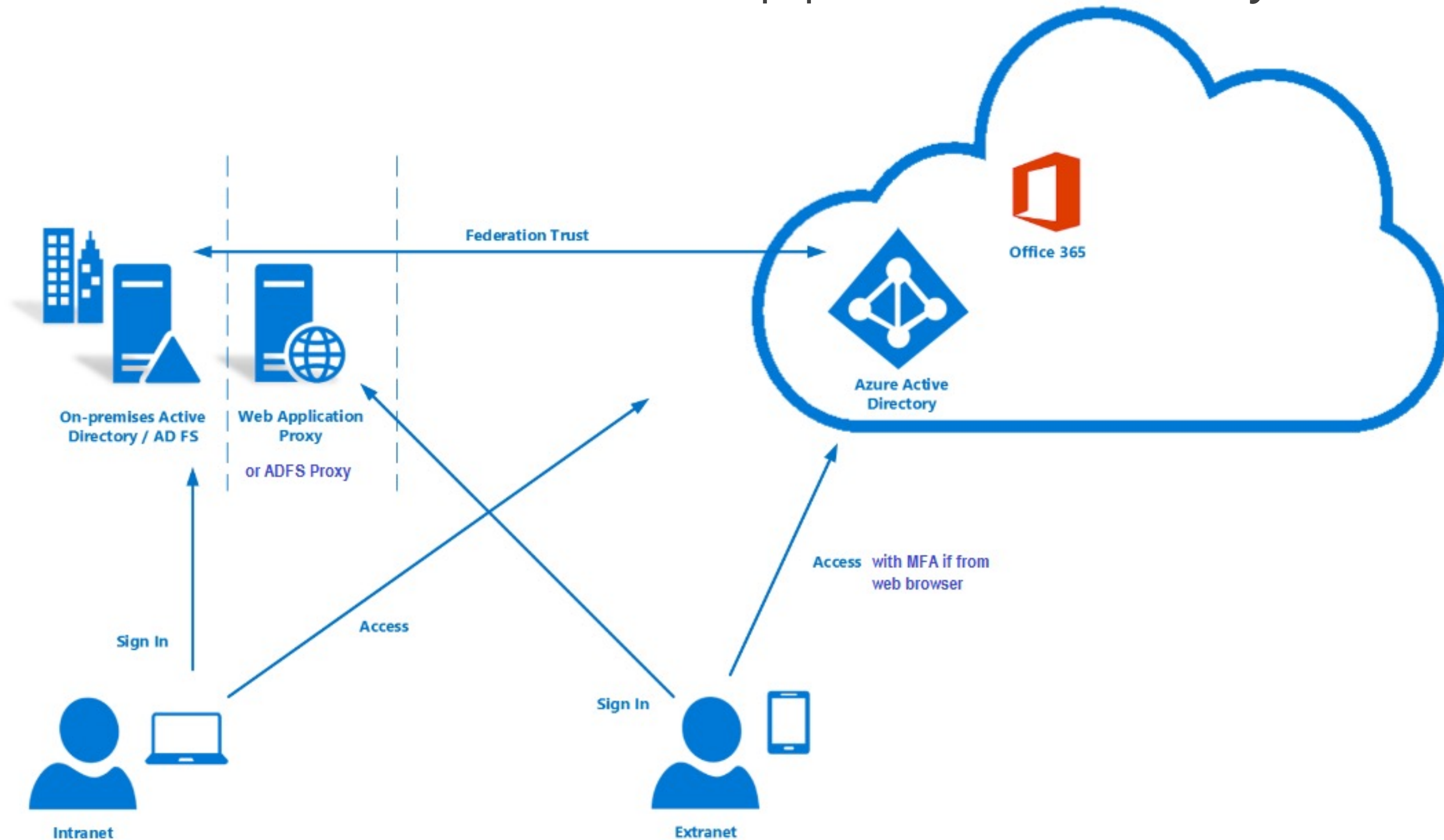


"How can I securely expose an internal app to Internet access?"

The business case



Windows Server Application Proxy



Azure AD Application Proxy



Remote access to on-premises web applications



AP service runs in the cloud; AP connector runs on local server



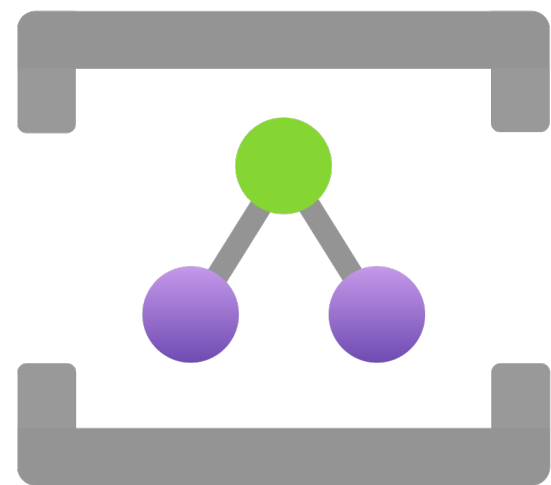
Replaces cost and overhead of VPN or AD Application Proxy/AD FS



Relies upon Azure AD for preauthentication (Azure AD Connect)



Azure Relay



Formerly called Azure Service Bus Relay

Connects on-premises services and cloud applications through a single port

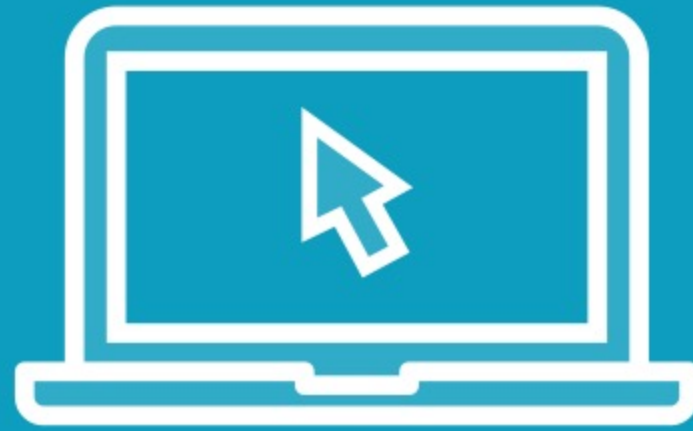
Secure hybrid connection scoped to a single application

- VPN operates at network scope

Hybrid Connections

- .NET WebSockets
- .NET HTTP
- Node WebSockets
- Node HTTP

Demo



1

Set up app proxy in Azure AD

Enterprise Reg

My Apps portal

Show Relay resource (start but don't finish)

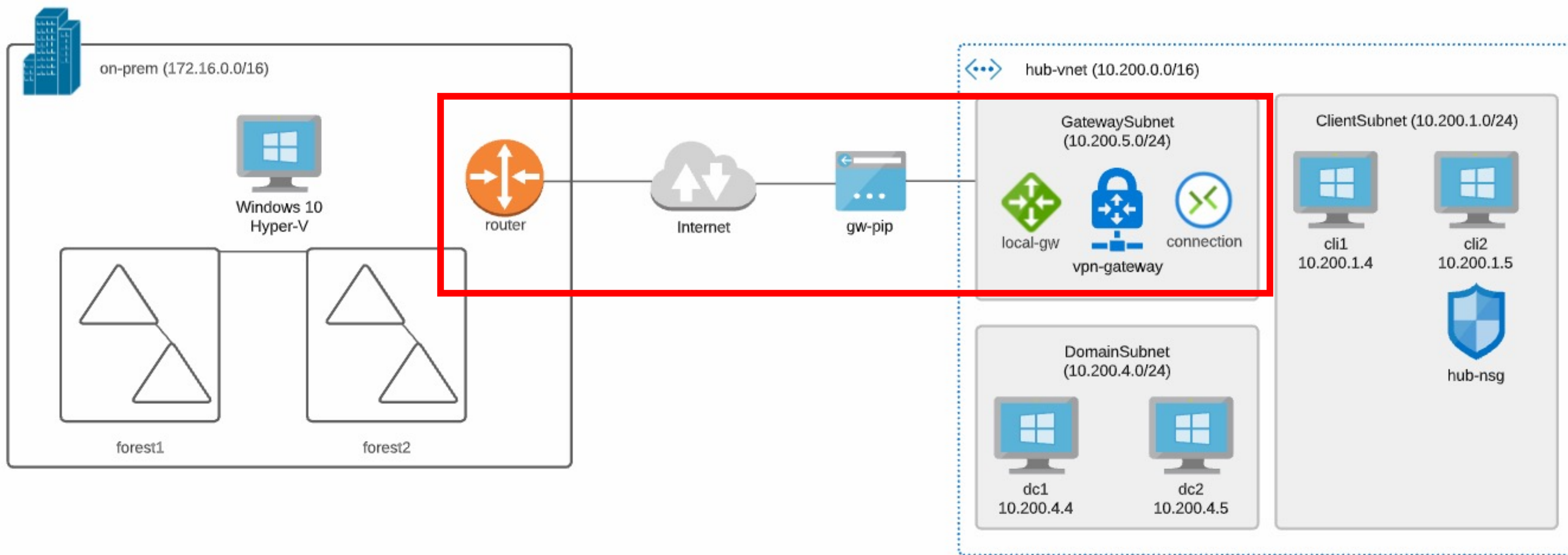
Show Hybrid Connections with App Service



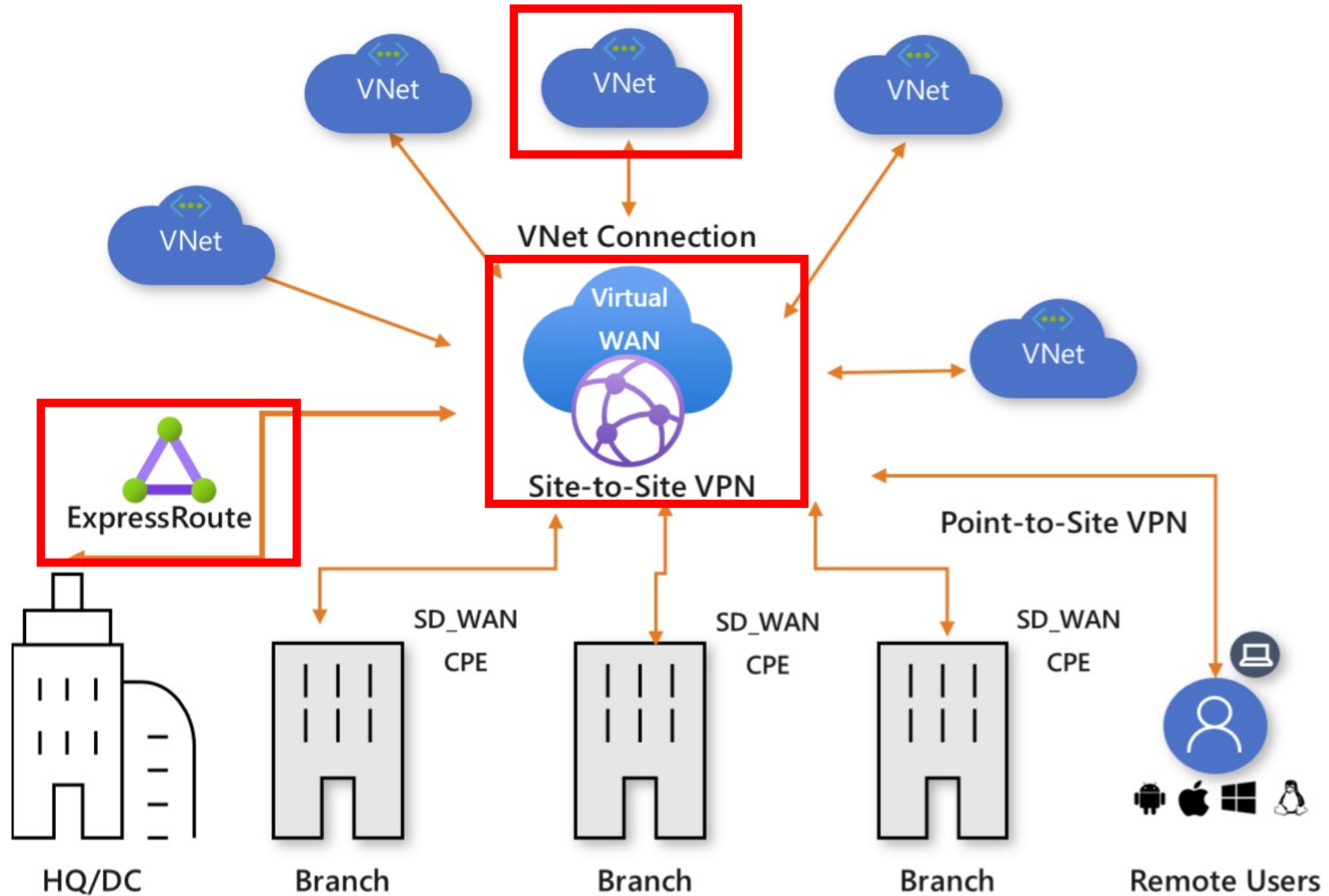
Hybrid Cloud Infrastructure



Azure Site-to-Site (S2S) VPN



Azure Virtual WAN



Demo



2

Review S2S VPN setup

Tour Virtual WAN



Summary



Azure hybrid networking is likely to be your biggest challenge

- AZ-700 Azure Network Engineer Associate

Thanks for your participation!

Courses: timw.info/ps

Twitter: [@TechTrainerTim](https://twitter.com/TechTrainerTim)

Website: TechTrainerTim.com

