# Express route

Express route overview

- Microsoft Azure ExpressRoute lets you extend your on-premises networks into the Microsoft cloud over a private connection facilitated by a connectivity provider

- With ExpressRoute, you can establish private connections to Microsoft cloud services, such as Microsoft Azure, Office 365, and Dynamics 365.

- Connectivity to all regions within a geopolitical region
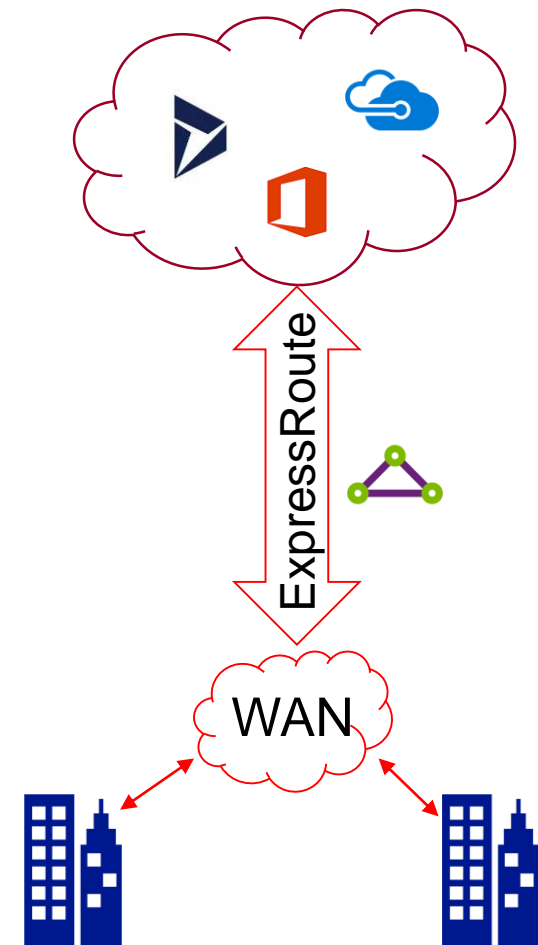
Connectivity models

CloudExchange Co-Location

ExpressRoute
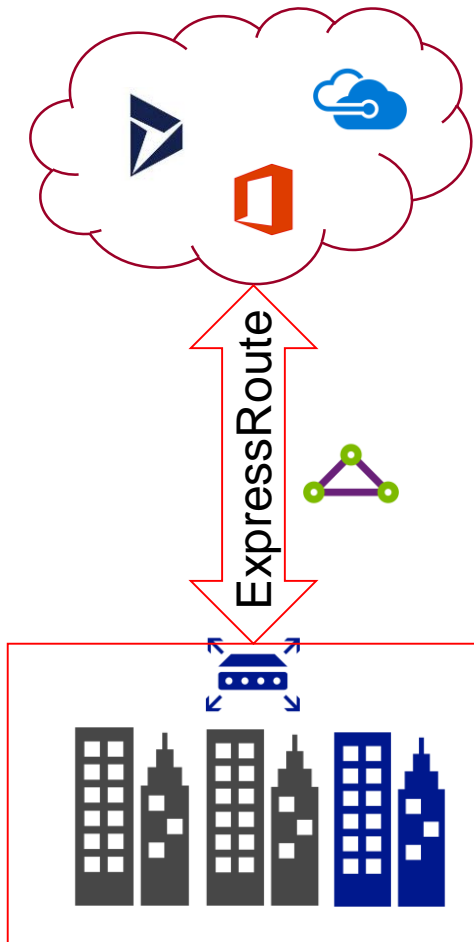
Point to Point Ethernet connection

ExpressRoute
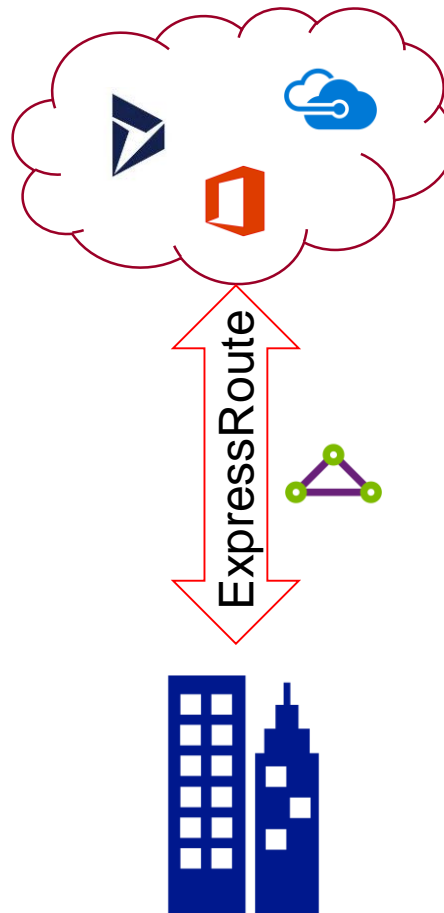
Any-to-any (IPVPN) connection

ExpressRoute

WAN

Routing domains

- Azure private peering
  - Azure compute services, namely virtual machines (IaaS) and cloud services (PaaS), that are deployed within a virtual network can be connected through the private peering domain
  - You can set up bi-directional connectivity between your core network and Azure virtual networks (VNets).
- Azure public peering
  - You can privately connect to services hosted on public IP addresses such as Azure storage, SQL databases and websites privately.
  - You can connect the public peering domain to your DMZ and connect to all Azure services on their public IP addresses from your WAN without having to connect through the internet.
- Microsoft peering
  - Bi-directional Connectivity to all Microsoft online services such as Office 365, Dynamics 365, and Azure PaaS services can be established through the Microsoft peering.