

Virtual Network Support for Power Platform

Dynamics 365 FastTrack Architecture Insights Series

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Agenda



Recognize the importance of Azure Virtual Network support for Power Platform.



Architecture comparison before and after Virtual Network support.



Steps to Configure Virtual Network Support for Power Platform



Demo



Supported services

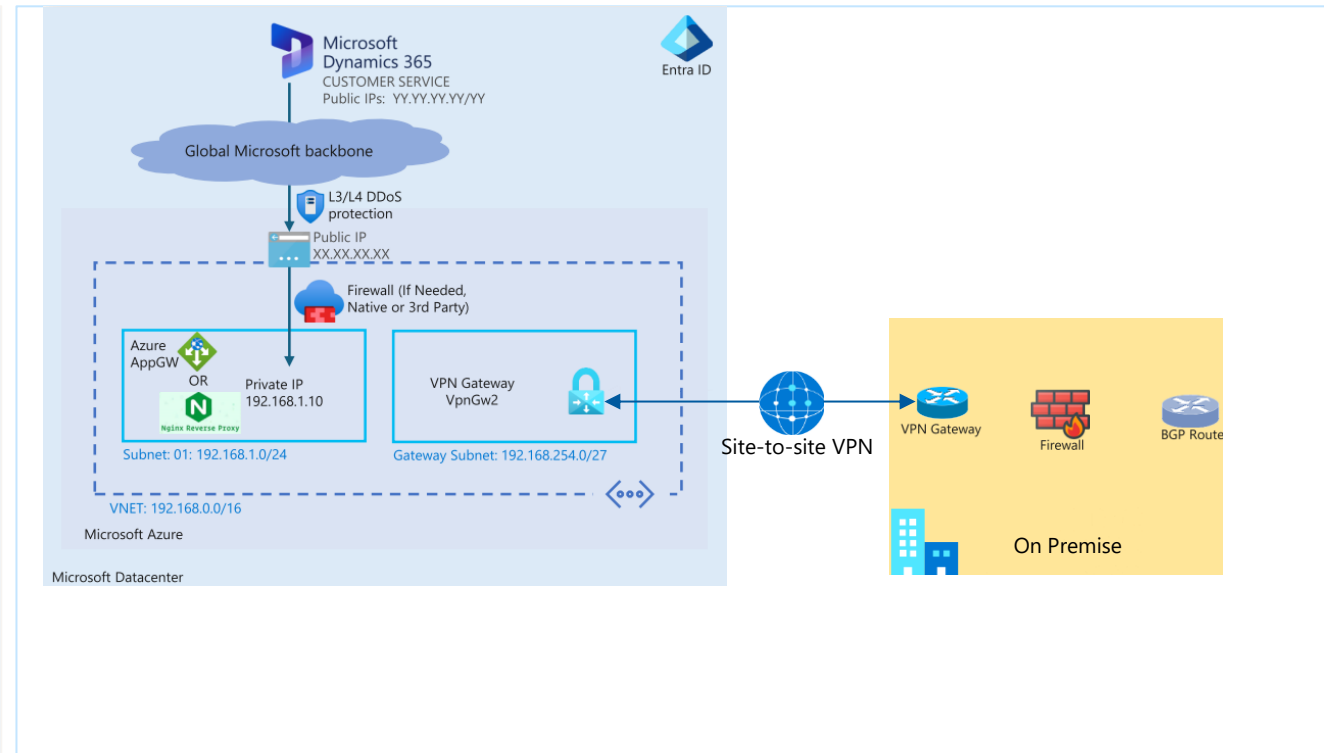
Background overview

- ❑ Power Platform offers SaaS services hosted on Microsoft infrastructure outside of organizations' private networks.
- ❑ Power Platform usually connects to enterprise resources over public networks. This means the resources must be accessible through specific Azure IP ranges or service tags, which list public IP addresses.
- ❑ Making enterprise resources accessible on the internet increases the risk of data breaches and unauthorized access.
- ❑ Azure Virtual Network support for Power Platform enables it to securely connect with enterprise resources using private network channels rather than exposing them on the public internet.

How was this handled before Azure Virtual Network support for Power Platform?

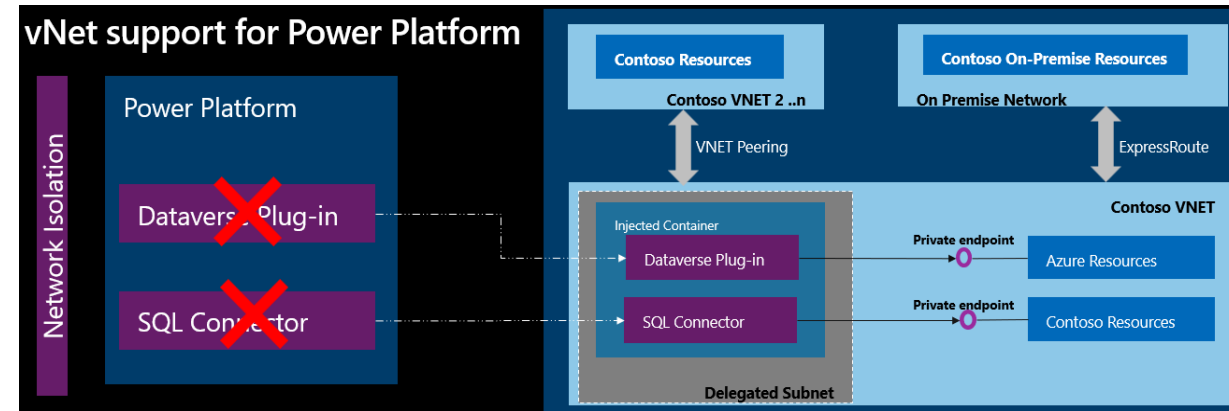
Approach Details

- ❑ This architecture uses a reverse proxy solution (like Nginx or Azure App Gateway) to ensure that communication between Power Platform and the reverse proxy stays within the Microsoft network, rather than going over the public internet.
- ❑ The reverse proxy handles incoming requests at the public IP and forwards them to private IPs, essentially performing address translation.
- ❑ Communication between the reverse proxy and enterprise On Premise is established over a site-to-site VPN.



What does Virtual Network support mean for Power Platform?

- ❑ Integrate Power Platform with resources inside your virtual network without exposing them to the public internet.
- ❑ Uses Azure subnet delegation to manage outbound traffic from Power Platform during runtime.
- ❑ Allows Power Platform components to access enterprise-owned resources within your network, whether hosted in Azure or on-premises.
- ❑ Supports making outbound calls using plug-ins and connectors.



What are the benefits of Virtual Network support for Power Platform?

Benefit	Description
Enhanced security	Run Power Platform services in a secure network to keep sensitive data safe from unauthorized access and potential breaches.
Improved connectivity	Create secure and reliable connections between Power Platform services and Azure resources to improve connectivity.
Streamlined network management	Streamline network management with a centralized and consistent way to configure and manage Power Platform service settings.
Scalability	Efficiently scale Power Platform services to ensure network resources grow with business needs.
Compliance	Ensure compliance with network security and data protection regulations.

When Azure resources are in a paired region and the Power Platform environment is in a Geography

Sample scenario

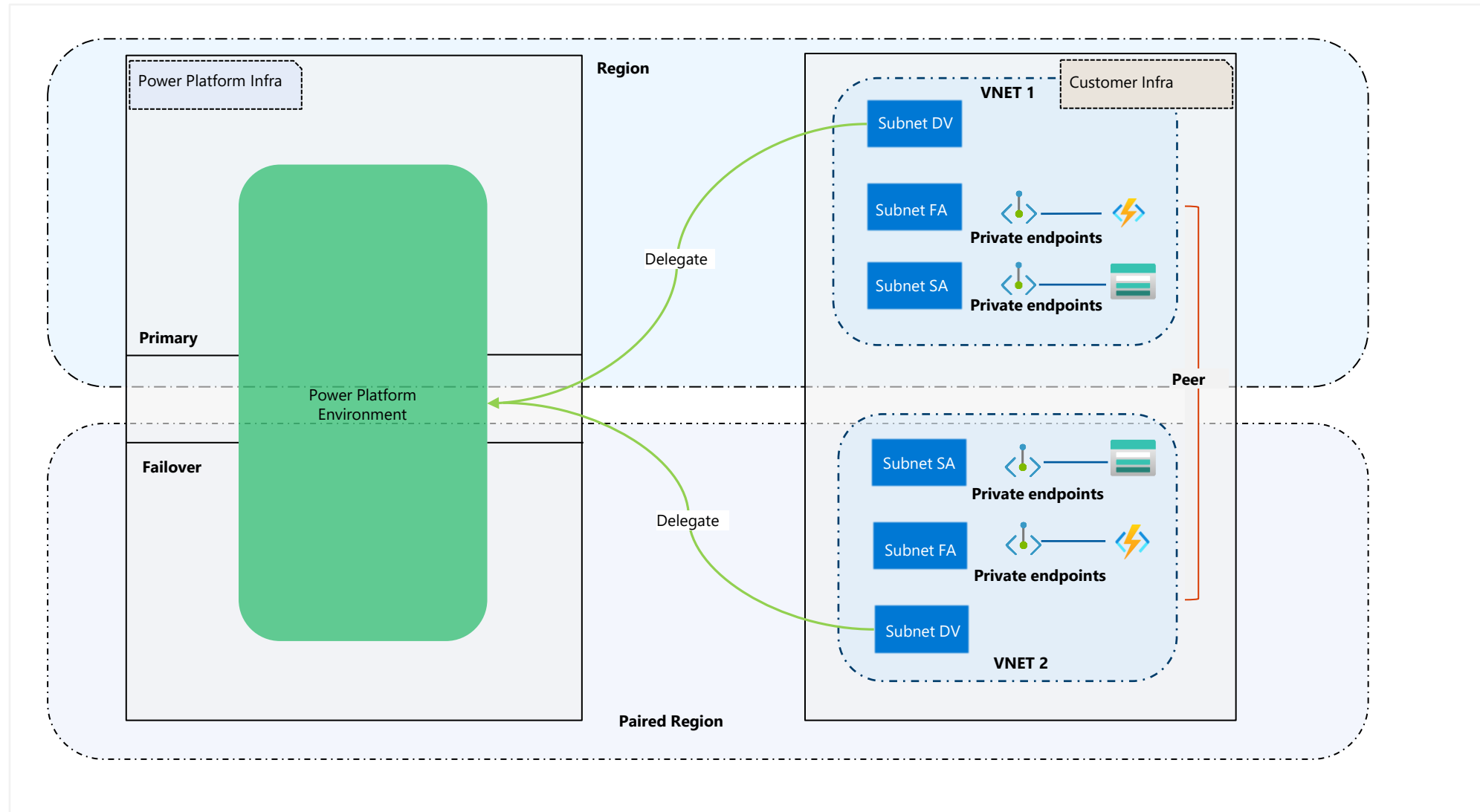
- ❑ View data on a custom page in Power Platform from an API accessible only through private endpoints.

Steps

- ❑ Create a Virtual Network (VNET 1) in Region 1 and set up subnet(s) for delegation and azure components.
- ❑ Create a Virtual Network (VNET 2) in paired Region 2 and set up subnet(s) for delegation and azure components.
- ❑ Establish a peering connection between VNET1 and VNET2.
- ❑ Create subnet injection enterprise policies using the subnet(s) created in steps 1 and 2 using PowerShell scripts.
- ❑ Configure desired power platform environments.

For more information, please visit Microsoft Learn. [Set-up-virtual-network-support](#)

High Level Architecture of the sample scenario



Supported services

Area	Power Platform services	Virtual Network support availability
Dataverse	<input type="checkbox"/> Dataverse plugins	Generally available
Connectors	<input type="checkbox"/> SQL Server <input type="checkbox"/> Azure SQL Data Warehouse <input type="checkbox"/> Azure Queues <input type="checkbox"/> Custom connectors <input type="checkbox"/> Azure Key Vault <input type="checkbox"/> Azure File Storage <input type="checkbox"/> Azure Blob Storage	Generally available
Connectors	<input type="checkbox"/> Snowflake	Preview

For more information, please visit Microsoft Learn. [Supported Services](#)

DEMO

portal.azure.com/#@richaindia.onmicrosoft.com/resource/subscriptions/0a3db24b-466a-4695-8f20-e55c6a80e7a0/resourceGroups/RG-FT-Vnet/overview

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

1

Sourajit@richaindia.on...

MICROSOFT

Home >

RG-FT-Vnet

Resource group

Search

Create

Manage view

Delete resource group

Refresh

Export to CSV

Open query

Assign tags

Move

Delete

Export template

Open in mobile

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Cost Management

Monitoring

Automation

Help

Essentials

Subscription (move) : [Visual Studio Enterprise Subscription](#)

Subscription ID : 0a3db24b-466a-4695-8f20-e55c6a80e7a0

Tags (edit) : [Add tags](#)

Deployments : [62 Succeeded](#)

Location : Central India

Resources

Recommendations (15)

Filter for any field...

Type equals all

Location equals all

Add filter

Showing 1 to 37 of 37 records.

Show hidden types

No grouping

List view

Name ↑↓	Type ↑↓	Location ↑↓
privatelink.nirecore.windows.net	Private DNS zone	Global
privatelink.monitor.azure.com	Private DNS zone	Global
privatelink.ods.opinsights.azure.com	Private DNS zone	Global
privatelink.oms.opinsights.azure.com	Private DNS zone	Global
sgvnetdemo	Storage account	Central India
vm-vnet-testing	Virtual machine	Central India
vm-vnet-testing-ip	Public IP address	Central India
vm-vnet-testing-nsg	Network security group	Central India
vm-vnet-testing499	Network interface	Central India
vm-vnet-testing_OsDisk_1_1b4bde51df0b463088c15bfbbaead1b7c	Disk	Central India
Vnet-PPAC	Virtual network	Central India
VNET-PPAC-Secondary	Virtual network	South India

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Thank You!