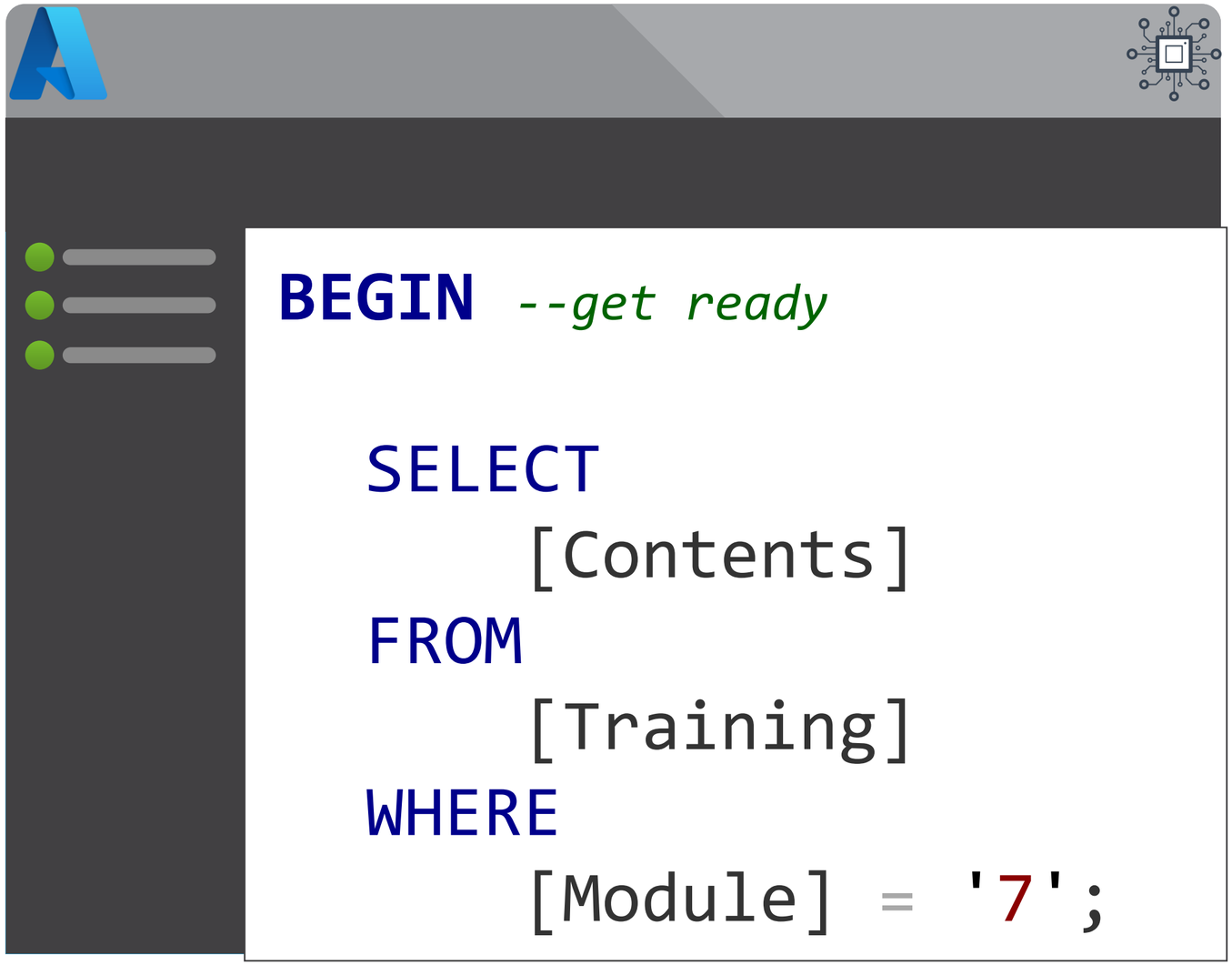
Module 7

VNet Integration



```
BEGIN --get ready

   SELECT
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   FROM
        [Training]
   WHERE
        [Module] = '7';
```
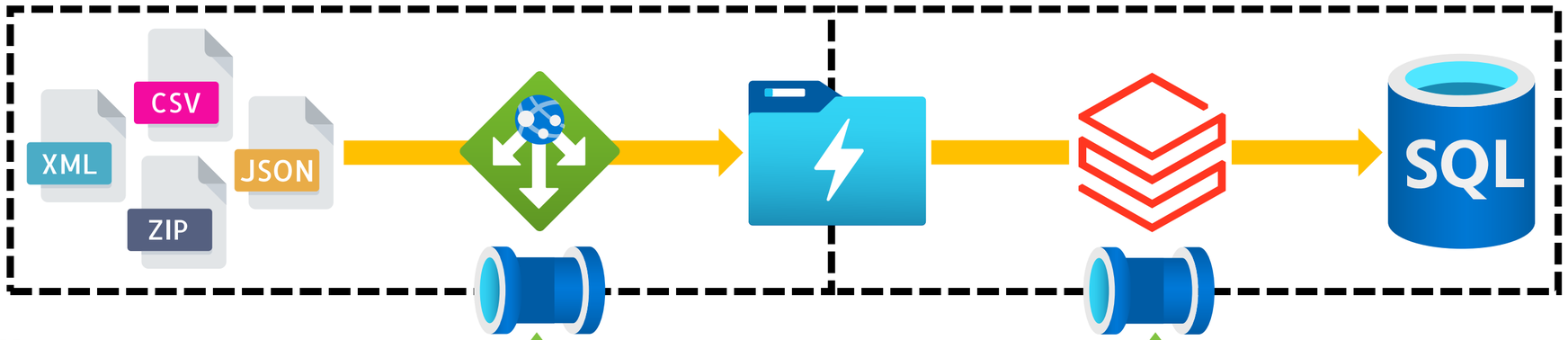

- Managed VNet's
- Private Endpoints
- Firewall Bypass

Integration Pipelines as Data Engineers

Control Flow



1 Linked Services

2 Datasets

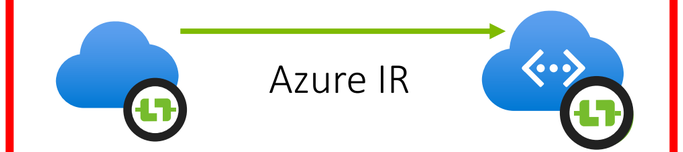
3 Activities

4 Pipelines

5 Triggers

Add dynamic content [Alt+P]

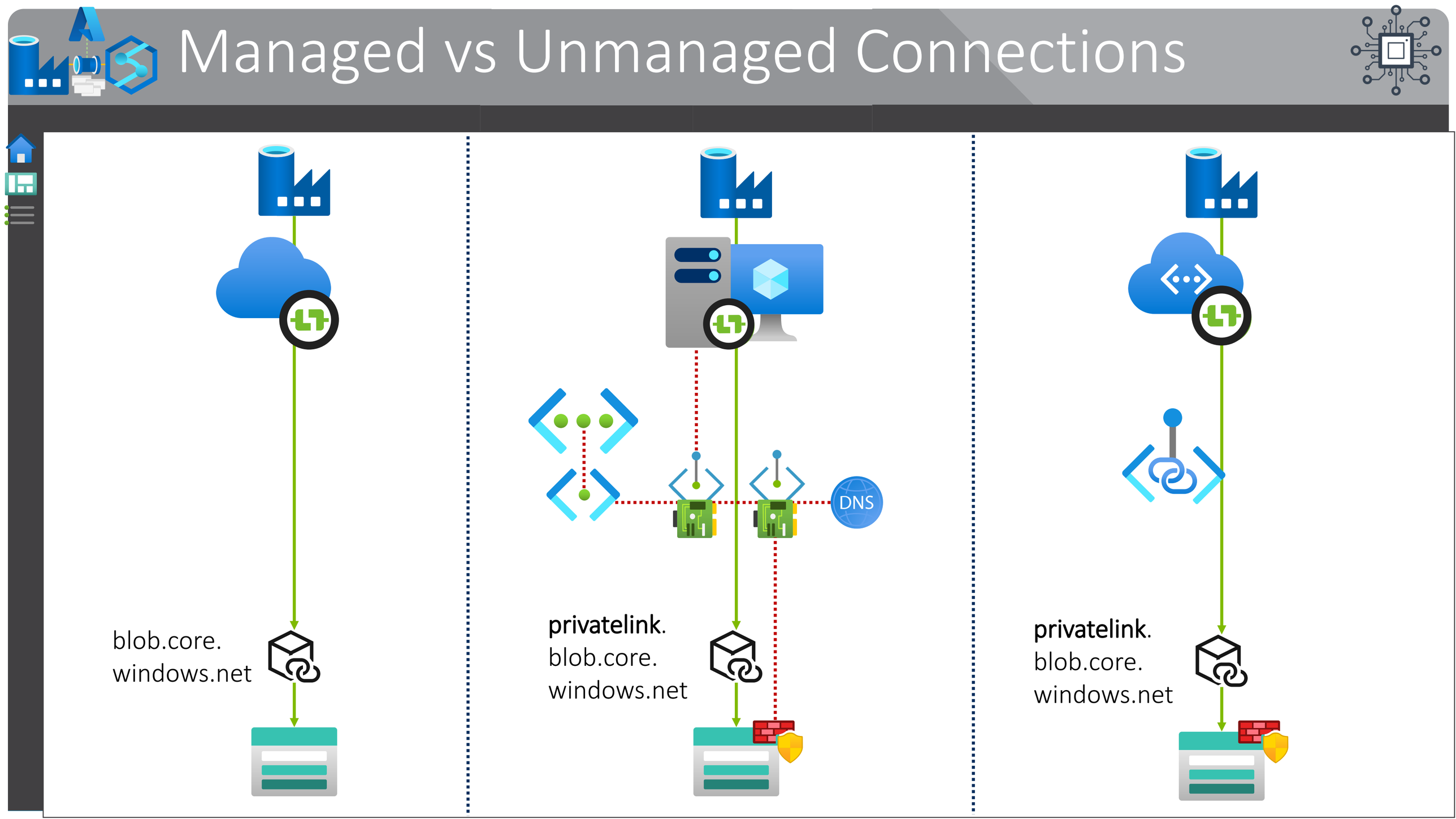
Integration Runtimes 6



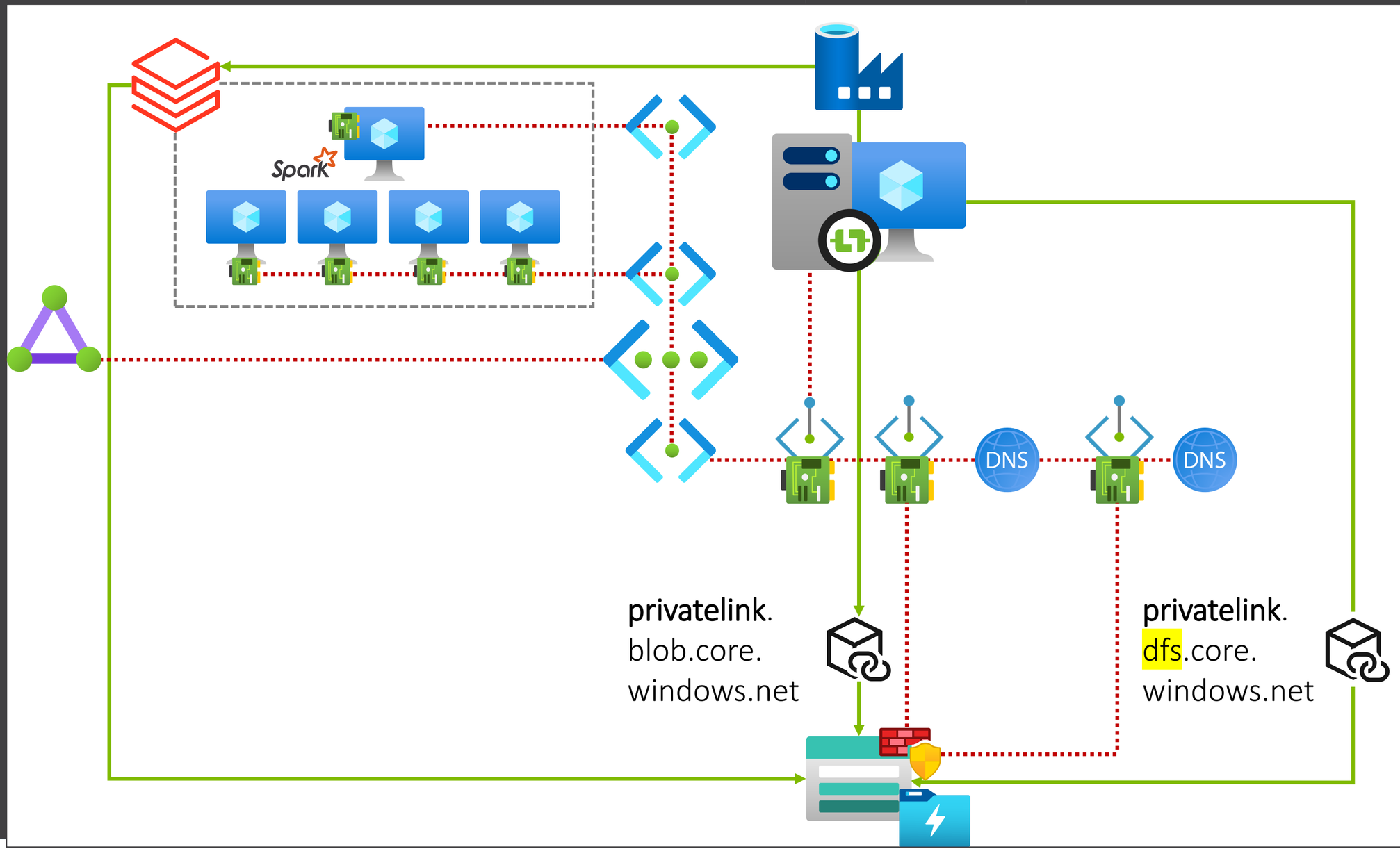
Hosted IR

SSIS IR

Managed vs Unmanaged Connections

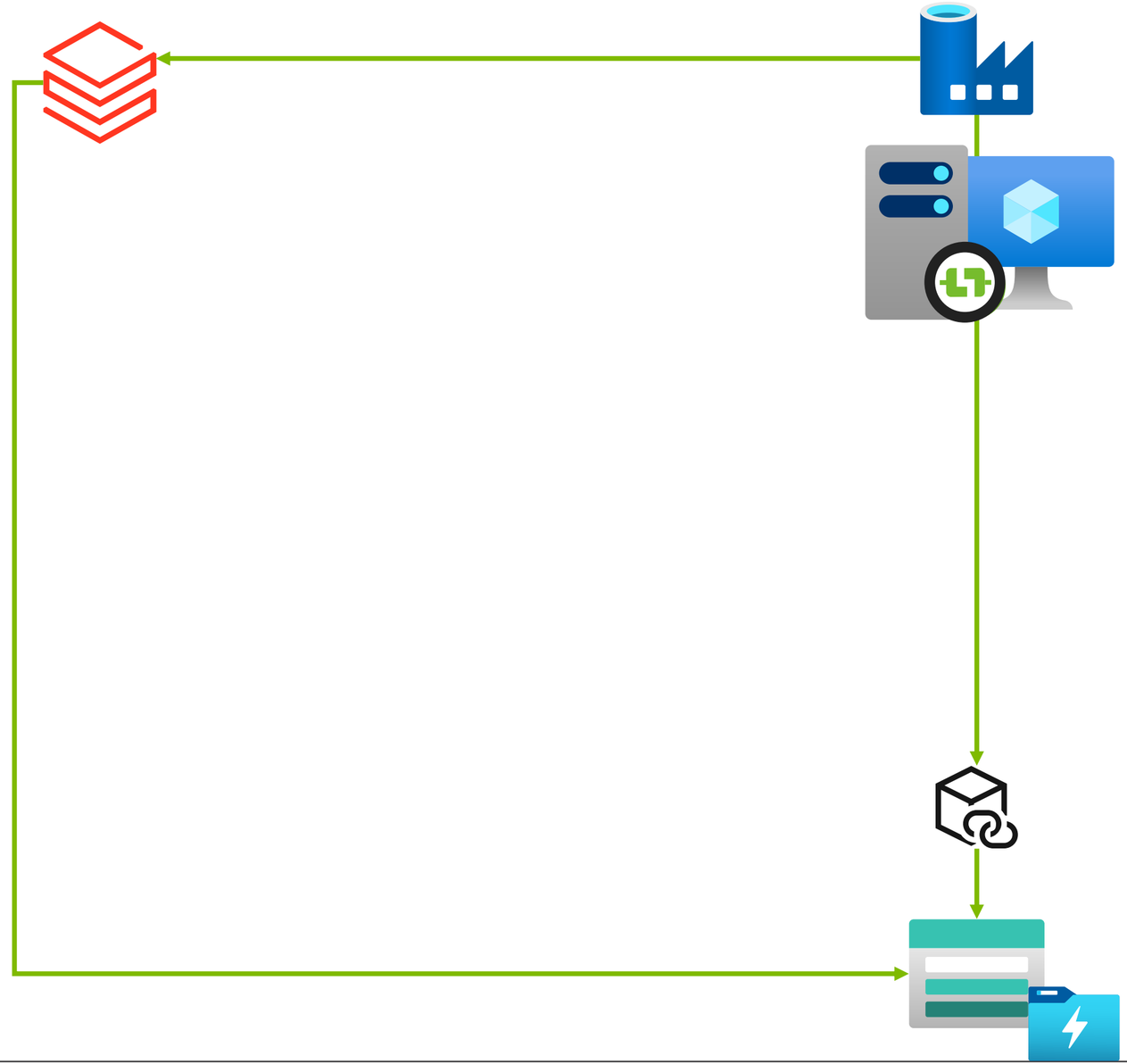


Further VNet Connections

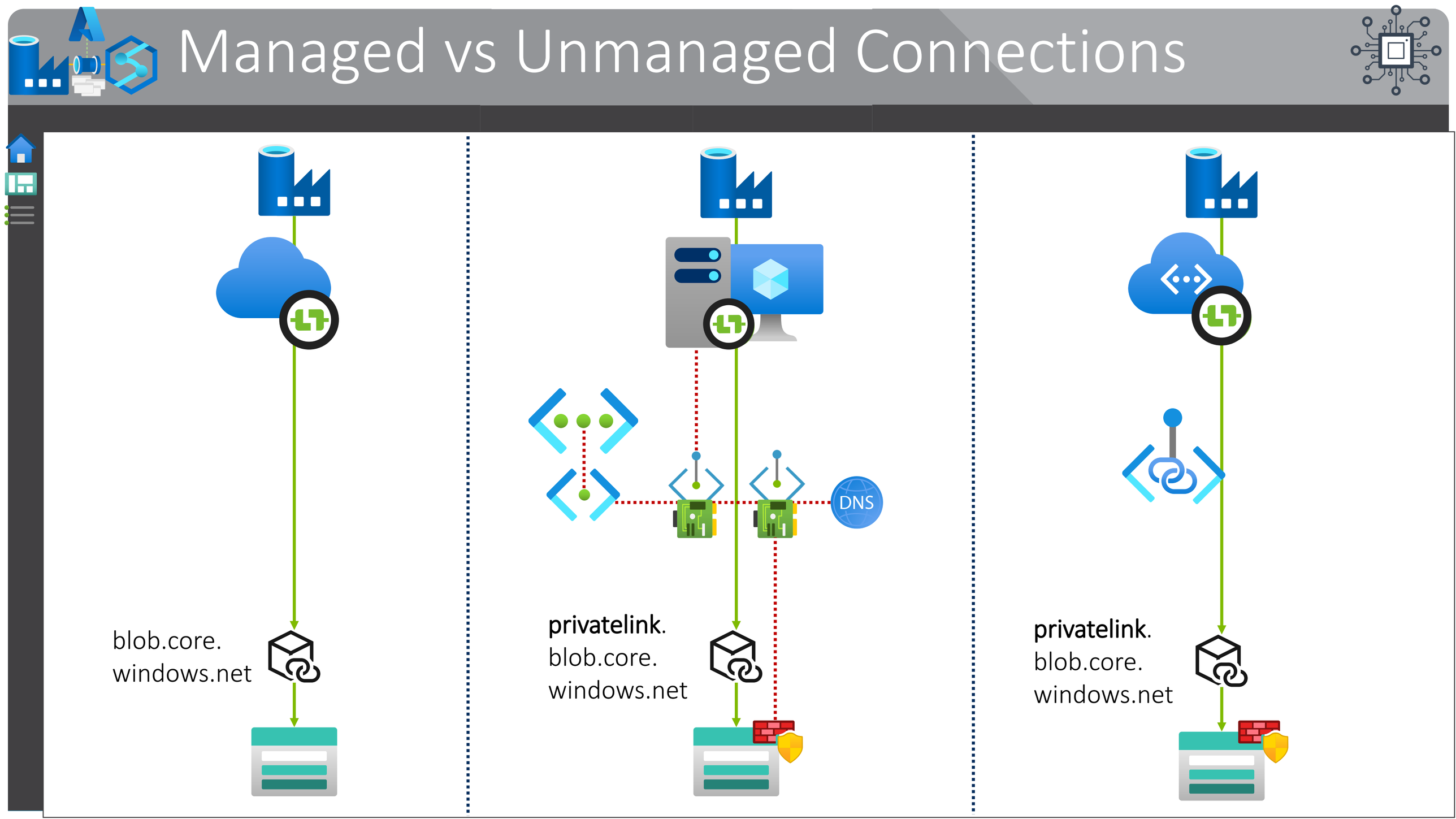


Further ~~VNet~~ Connections

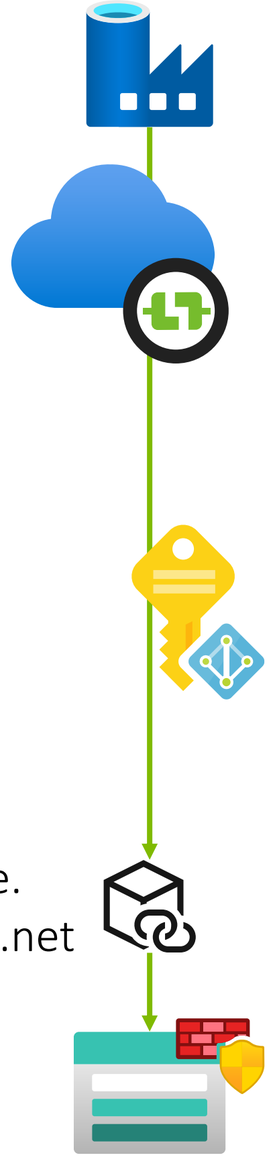
For a Data Engineer



Managed vs Unmanaged Connections



Public Connections



Managed
Identity

** Trusted access based on system-assigned managed identity.*

Microsoft.DataFactory/factories

blob.core.
windows.net

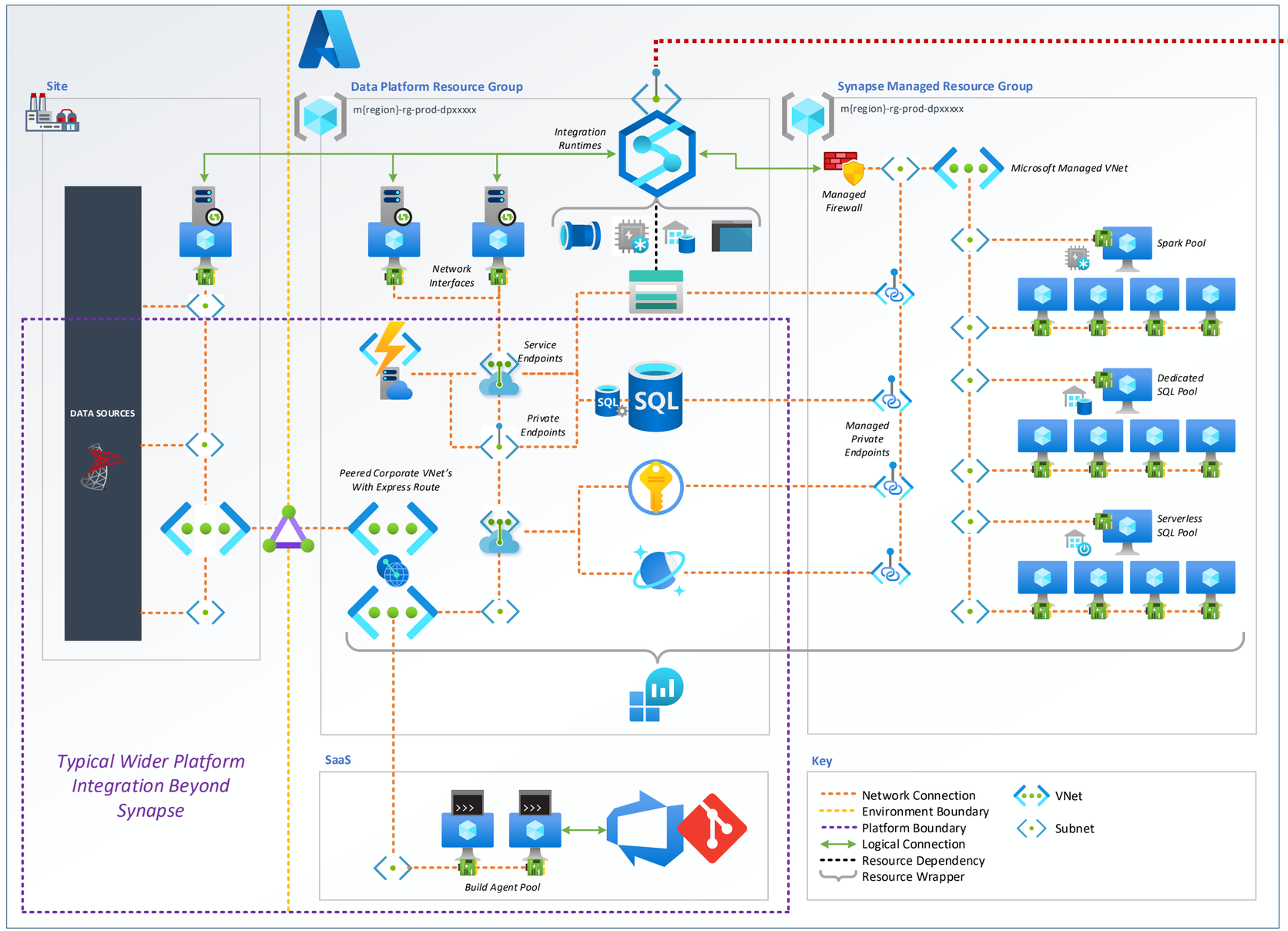
https://docs.microsoft.com/en-us/azure/storage/common/storage-network-security?tabs=azure-portal

Demo

VNet Integration with Synapse

Synapse Physical Architecture

https://mrpaulandrew.com/2021/06/10/thinking-about-an-azure-synapse-analytics-physical-architecture-v1/

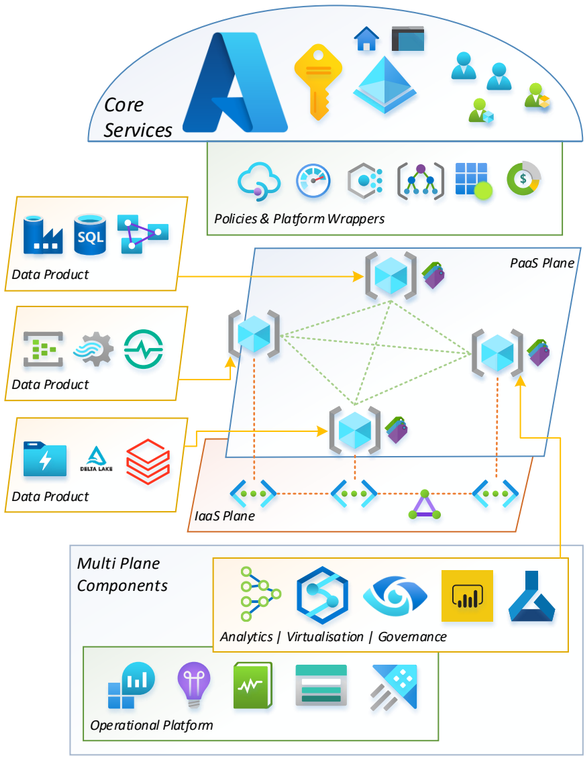


Synapse Analytics – Private Link Hubs

VNet’s with a Data Mesh Architecture

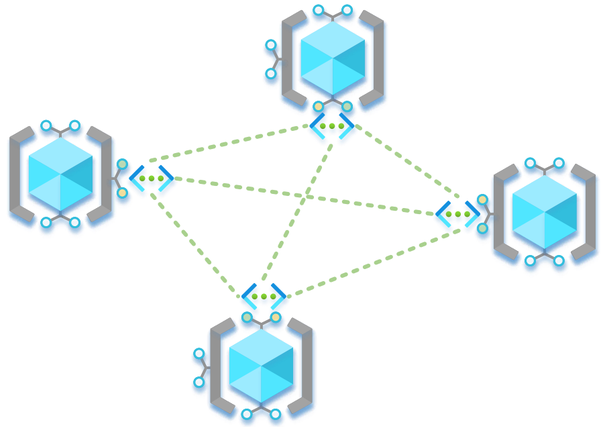
Building a Data Mesh Architecture in Azure

Theory vs Practice

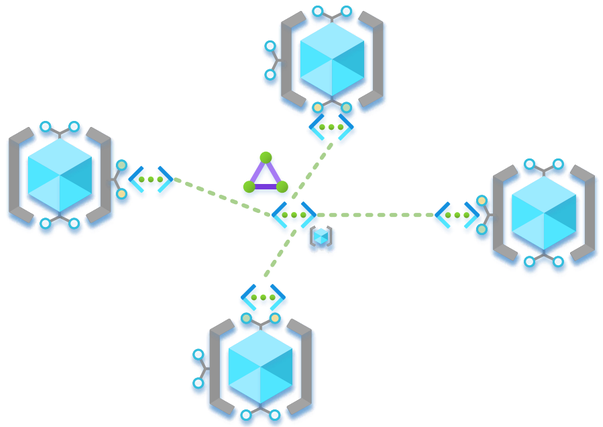


https://mrpaulandrew.com/tag/data-mesh-vs-azure/

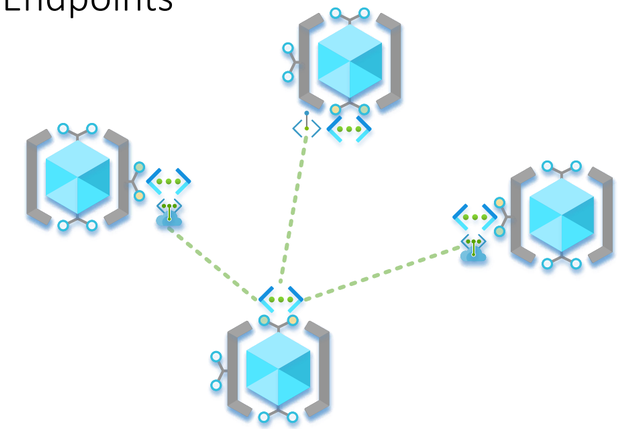
Option 1 – Full VNet Peering



Option 2 – Hub & Spoke VNet Peering

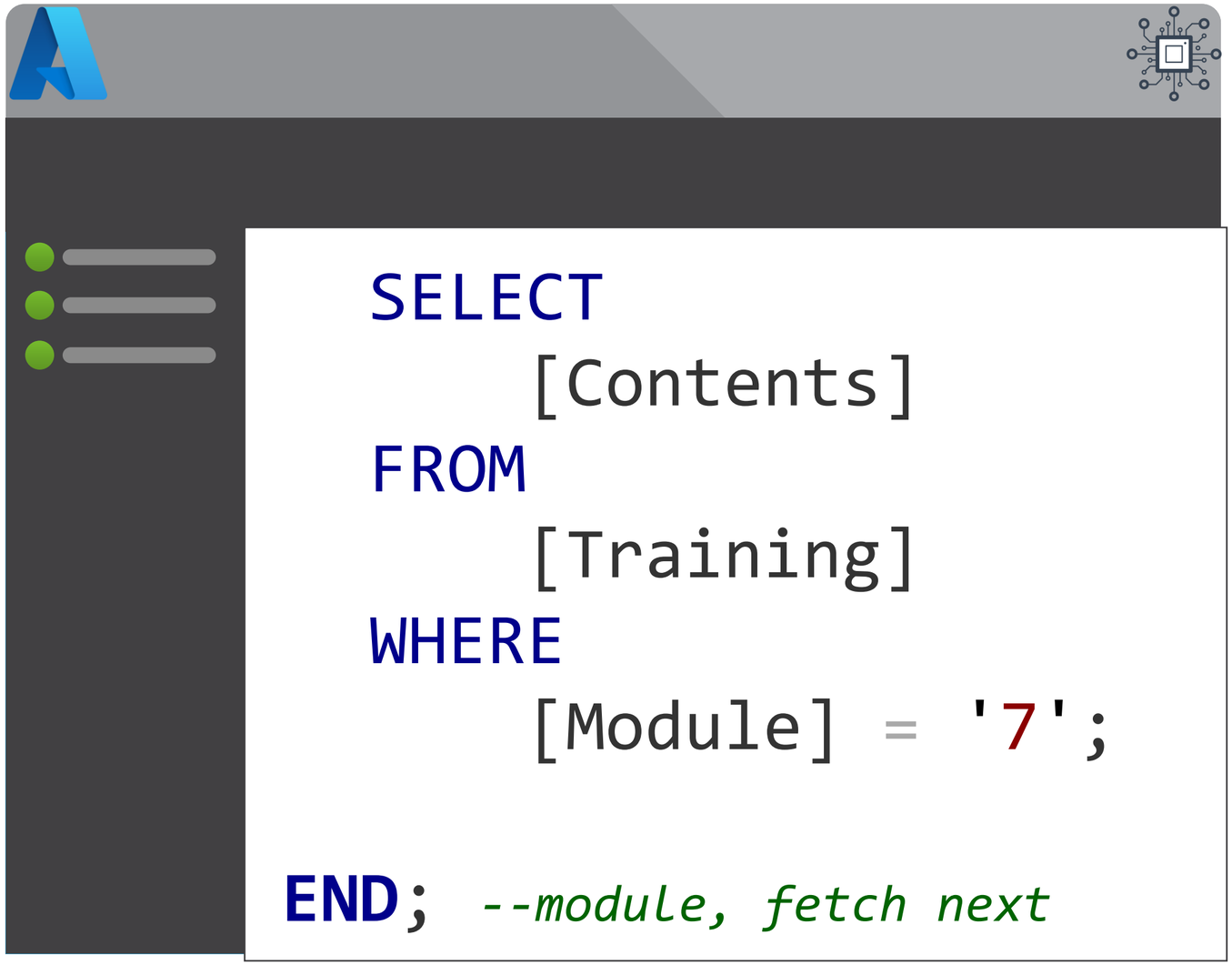


Option 3 – Targeted Service/Private Endpoints



Module 7

VNet Integration



```
    SELECT
        [Contents]
    FROM
        [Training]
    WHERE
        [Module] = '7';

END; --module, fetch next
```

- Managed VNet's
- Private Endpoints
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