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Microsoft Fabric COMMUNITY CONFERENCE | Microsoft SQL COMMUNITY CONFERENCE

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ATLANTA MARCH 16 - 20, 2026

Azure Readiness for Fabric

What Every Organization Needs to Know

Ensure your Azure setup supports Fabric today and future innovation tomorrow

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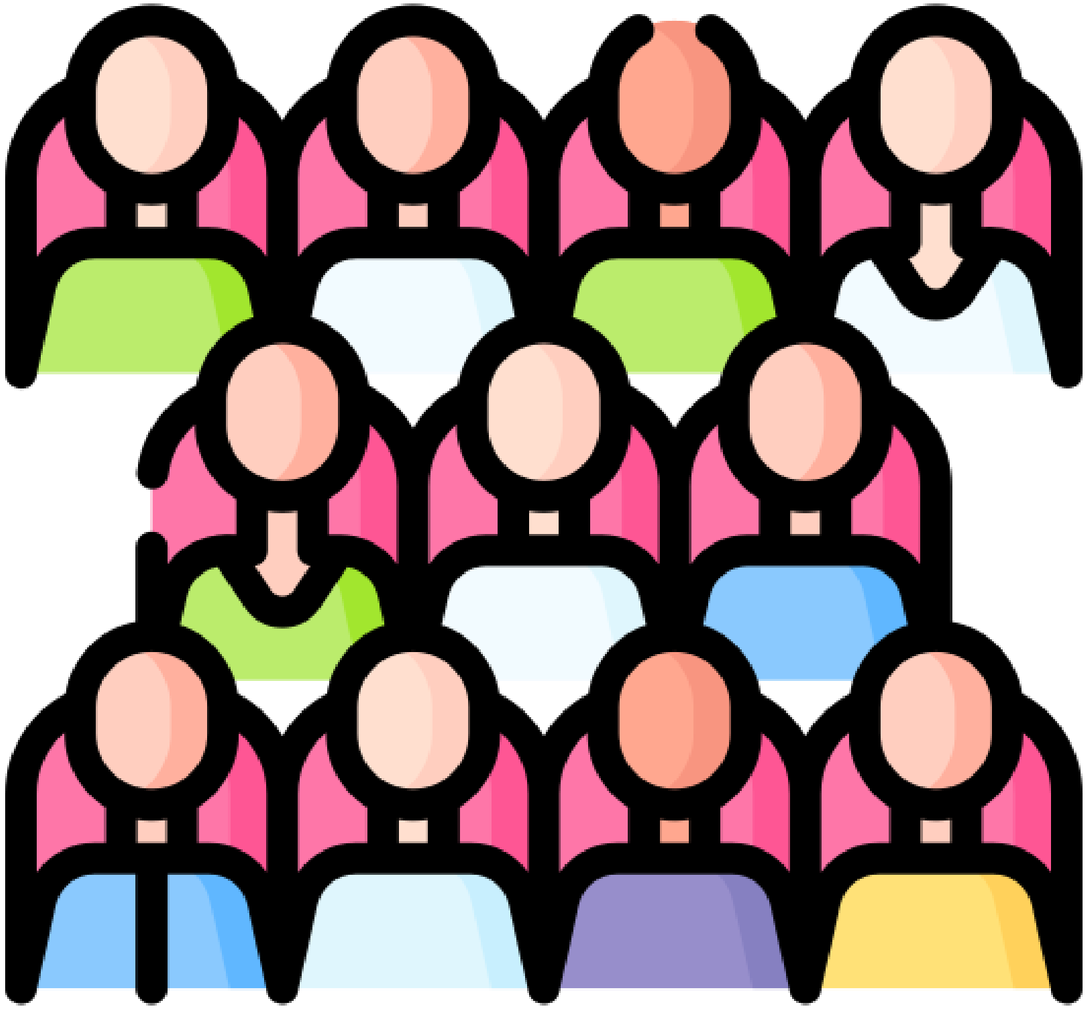


Organizations with limited Azure experience

Organizations with Power BI Premium migrating to Fabric

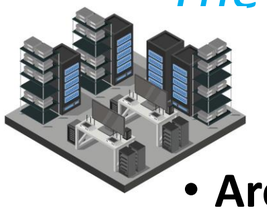
Microsoft 365 only Azure customers adopting Fabric

Organizations with AWS or GCP experience adopting Fabric

“Azure Readiness for Fabric”

Planning a Physical Versus a Virtual Data Center

The responsibilities shift — but they don't disappear



- **Architecture & Facilities** — Power, cooling, HVAC, fire suppression, rack space
- **Hardware** — Server/storage procurement, replacement cycles, spare parts
- **Networking** — Cabling, switches, routers, firewalls, ISP contracts
- **Security** — Access control, cameras, guards, locked cages
- **On-Site Operations** — Hardware installs, repairs, firmware patching, physical monitoring
- **Compliance & Governance** — Physical audits, chain-of-custody
- **Capacity Planning** — Forecasting hardware needs, procurement lead times

- **Architecture & Regions** — Subscriptions, resource groups, region/zone selection
- **Virtual Infrastructure** — VM sizing, storage tiers, autoscaling, service selection
- **Networking** — VNets, subnets, NSGs, Azure Firewall, ExpressRoute/VPN
- **Security** — Entra ID, RBAC, Conditional Access, MFA
- **Cloud Operations** — Monitoring, alerting, automation, backup/DR, cost governance
- **Cloud Governance** — Azure Policy, tagging standards, Purview, resource locks
- **Elastic Scaling** — Autoscale rules, performance tiers, multi-region design

Azure removes the physical burden, but the planning mindset remains the same

Within Azure...

- Deploy Fabric capacity
- Resume/Pause/Scale
- Manage access control (IAM)
- Manage network connectivity
- Manage Azure subscriptions and reservations
- …

Within Fabric…

- Manage connections between Fabric workloads
- Manage workspace outbound and inbound networking
- Manage custom Spark pools
- Manage network connectivity admin settings
- …

SaaS?

While Fabric is fundamentally SaaS, there are some aspects that resemble PaaS

Security is a Continuum

Only You Can Decide!

Broadcast Access

All Access

Controlled Access

No Access

Fabric Identity and Access Management (IAM) with Entra ID

Free Entra ID

- Username, password, basic MFA
- Passkey enabled

Entra ID P1

- Free +
- Fully configurable MFA
- Conditional access (app, user, device, location, risk signals)
- Passkey enforceable

Entra ID P2

- P1 +
- Risk-based automation
- Privileged access governance

Capability	Free	P1	P2
User & group management	✔	✔	✔
SSO to SaaS apps	✔	✔	✔
MFA	Basic defaults	Full control	Full control
Conditional Access	✘	✔	✔ (with risk signals)
Hybrid identity + write-back	Limited	✔	✔
Self-Service Password Reset	Admins only	Users + admins	Users + admins
Identity Protection (risk-based)	✘	✘	✔
Privileged Identity Management	✘	✘	✔
Access reviews	✘	Limited	✔
Entitlement management	✘	Limited	✔

[Conditional Access - Microsoft Fabric | Microsoft Learn]

Network traffic

may flow over the

public internet and

anyone can attempt to

login to Fabric

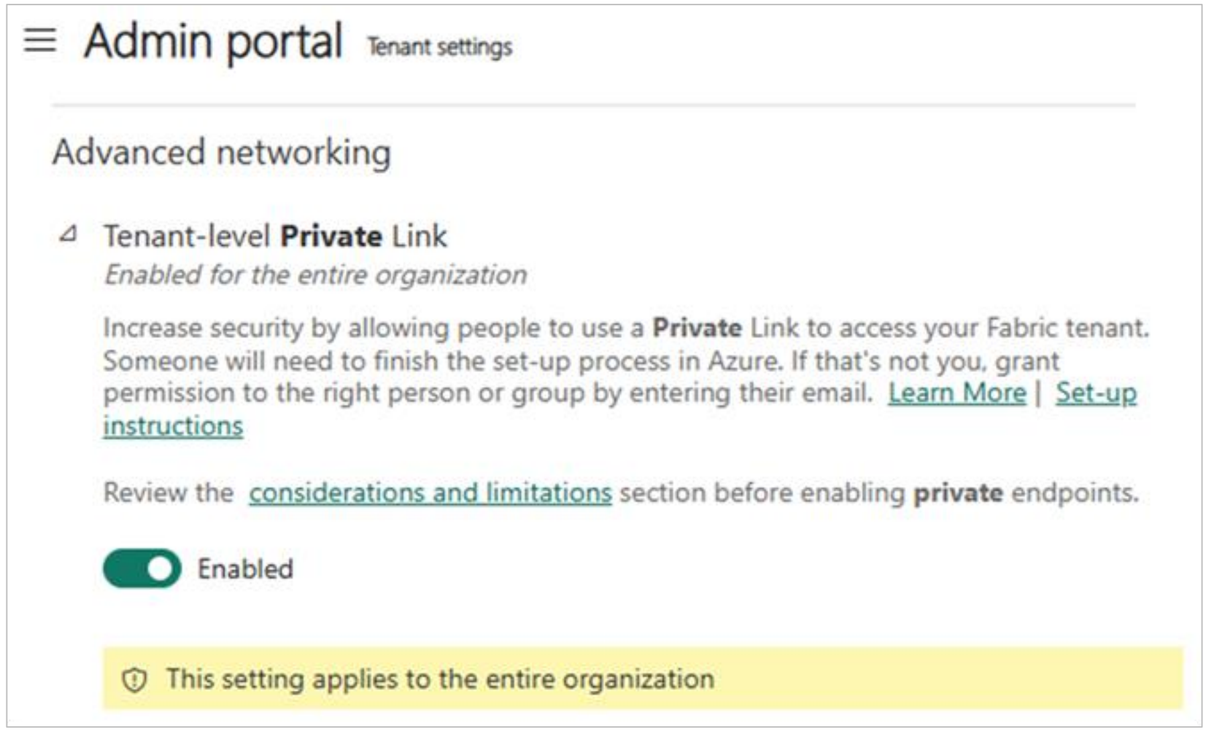
Enable Tenant-level Private Link

Private Link is the technology that enables private connectivity to a service over the Azure backbone

A **private endpoint** is the network interface that uses Private Link to give your VNet a private IP connection to that service

Configure private endpoints

Enable Tenant-level Private Link Fabric tenant setting



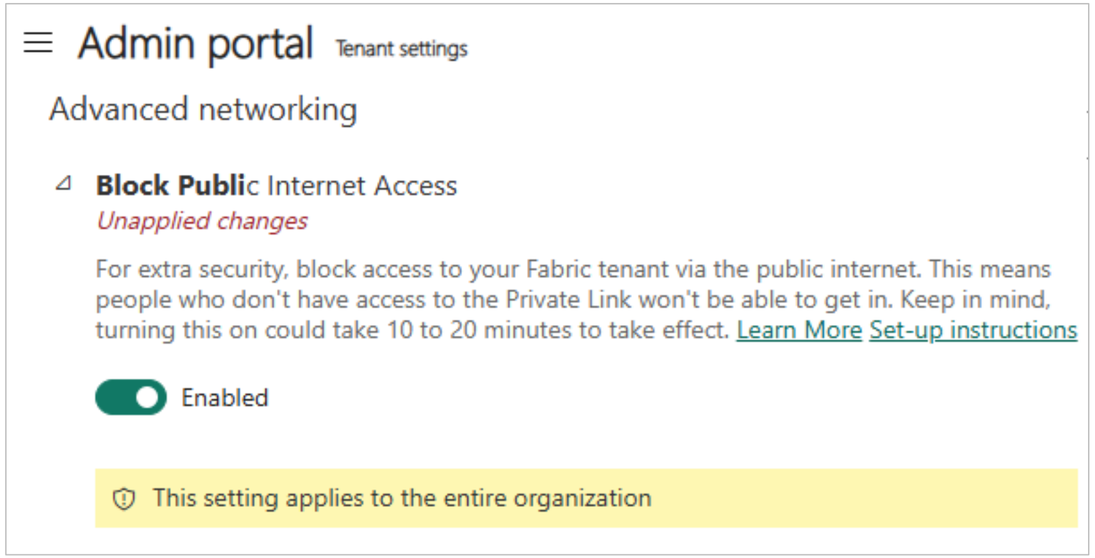
[About private Links for secure access to Fabric - Microsoft Fabric | Microsoft Learn]

[Set up and use a tenant-level private link - Microsoft Fabric | Microsoft Learn]

Block Public Internet Access

“If Azure Private Link is properly configured and Block public Internet access is disabled traffic from the public Internet is allowed by Fabric services”

Enable “Block Public Internet Access” Fabric tenant setting

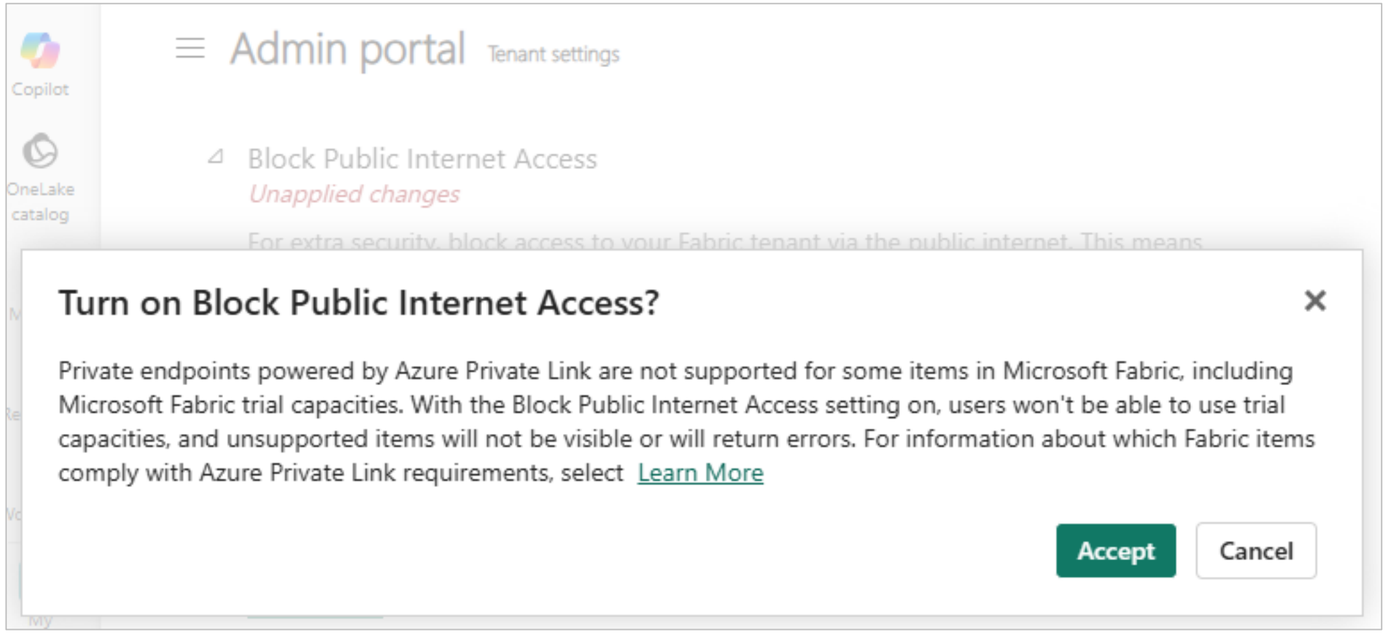


[Disable public access for Fabric]

Limitations

Enabling Private Link and blocking public internet access **disables:**

- Starter pools for Spark
- Pipeline copying data from and into a Warehouse
- Power BI publish to Web
- Power BI email subscriptions
- Power BI Copilot
- Most database mirroring
- Microsoft Fabric Capacity Metrics app
- …



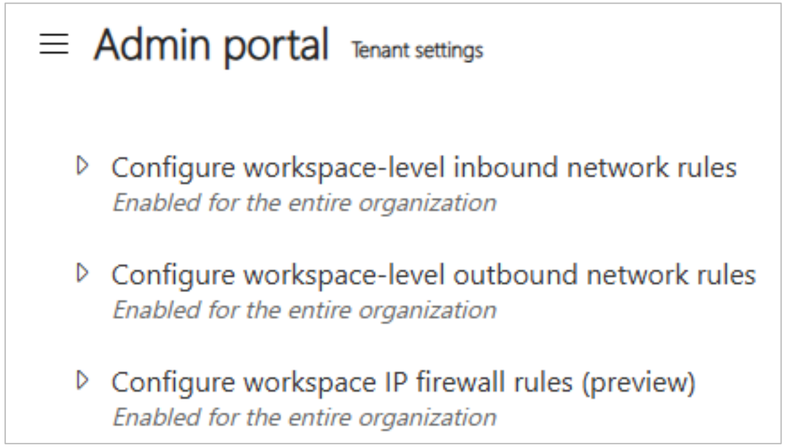
[Private Link in Fabric experiences]

[Other considerations and limitations]

Additional Network Security Options

Inbound protection

- Inbound protection limits where requests to Fabric are allowed to originate
- **Tenant-level**: Private Link, block public access
- **Workspace-level**: Private Link, IP firewall rules



Outbound protection

- Outbound protection limits where Fabric is allowed to connect when it sends data out
- **Tenant-level**: Managed VNets and private endpoints
- **Workspace-level**: Managed private endpoints, block public access, data connection rules

About inbound access protection in Fabric - Microsoft Fabric | Microsoft Learn

Overview of managed virtual networks in Microsoft Fabric - Microsoft Fabric | Microsoft Learn

Overview of managed private endpoints for Microsoft Fabric - Microsoft Fabric | Microsoft Learn

Workspace outbound access protection overview - Microsoft Fabric | Microsoft Learn

Fabric security features availability - Microsoft Fabric | Microsoft Learn

Cloud Adoption Framework

Unified, end-to-end roadmap that helps organizations adopt Azure successfully by aligning business strategy, people, processes, and technology

Aligns business and technical strategy for cloud success

Reduces risk through consistent governance and security practices

Provides repeatable patterns for migration, modernization, and cloud-native development

Ensures scalable, well-architected environments through landing zones

Microsoft Cloud Adoption Framework - Cloud Adoption Framework | Microsoft Learn

Azure Landing Zones

Established in Microsoft's Cloud Adoption Framework

Standardized, scalable, and secure foundation for running workloads in Azure

Define *how* an organization should structure subscriptions, governance, networking, identity, and operations **before** deploying apps or data platforms

Prevents "sprawl and chaos"

What is an Azure landing zone? - Cloud Adoption Framework | Microsoft Learn

Azure Landing Zones

Azure Landing Zones are **pre-architected environments** that provide

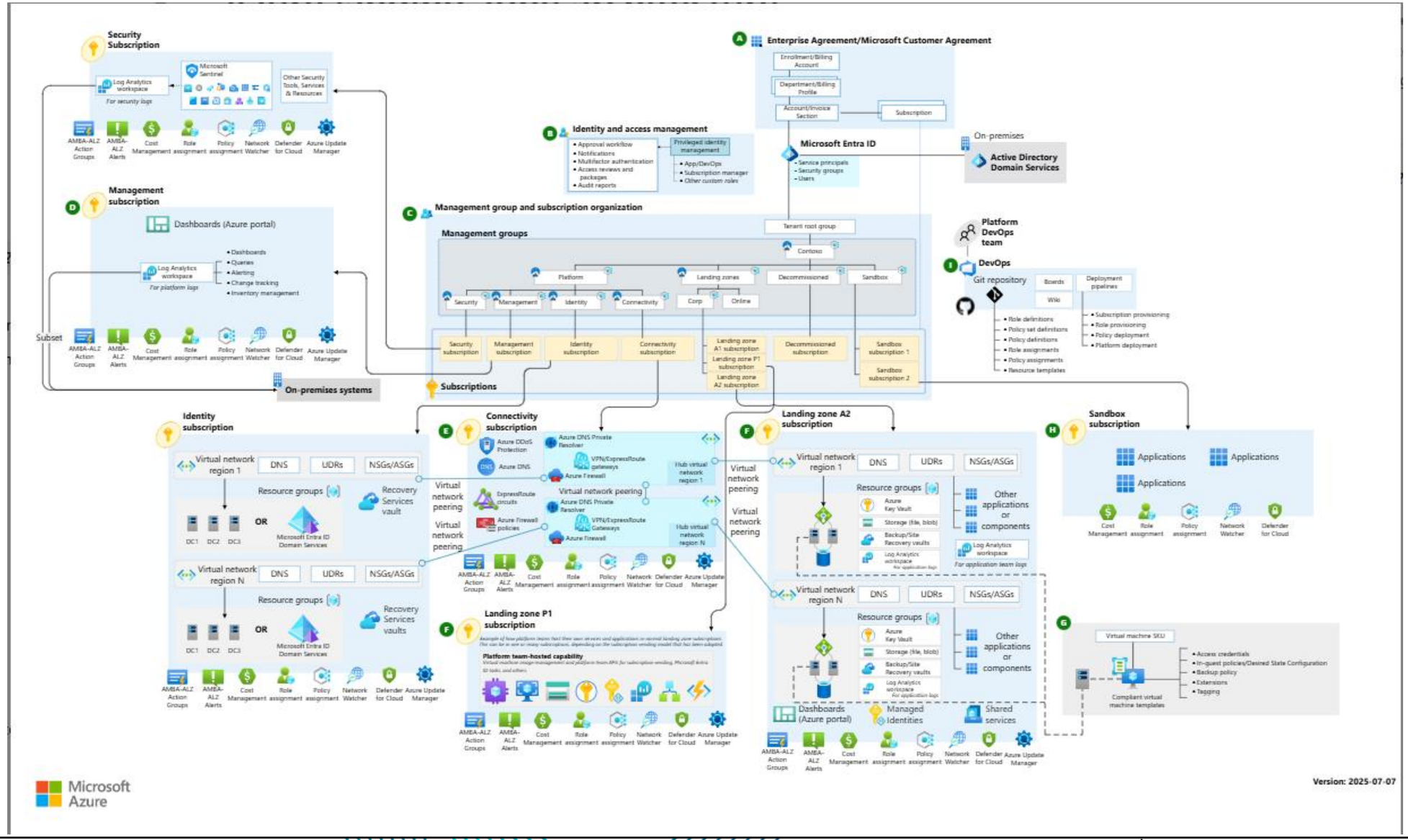
- A consistent subscription and management-group structure
- Identity and access control aligned with enterprise policies
- Network topology (hub-and-spoke, virtual WAN, or cloud-native)
- Security baselines and guardrails
- Logging, monitoring, and operational controls
- Policies and governance enforced through Azure Policy and RBAC

They act as the **foundation layer** on which workloads are deployed. Instead of each team building their own environment, everyone lands in a **standard, governed platform**

Platform Landing Zone: Enterprise-level foundation: management groups, identity, networking, security, monitoring

Application Landing Zones: Workload-specific environment inheriting platform guardrails

Azure Landing Zone Architecture



Azure Well-Architected Review

A guided, scenario-specific assessment of your workload’s architecture

A scored baseline

Curated, personalized recommendations to strengthen weak areas

A roadmap for improving cloud maturity over time

Improves resilience, security posture, and operational consistency

Reduces unnecessary cloud spend and increases efficiency

Helps teams design, modernize, and operate workloads using proven best practices

Establishes a repeatable benchmark for continuous improvement

Assessments | Azure Well-Architected Review

Azure Policy

Azure Policy is a governance engine that

- Audits your resources against Microsoft-defined or custom rules
- Enforces configurations (e.g., require encryption, block public IPs)
- Assigns regulatory “initiatives” that bundle many policies into a single compliance standard
- Produces compliance dashboards showing how well your environment aligns with requirements

This is how Azure evaluates whether your environment meets standards like **HIPAA**, **PCI DSS**, **NIST 800-53**, and others.

Overview of Azure Policy - Azure Policy | Microsoft Learn

HIPAA - Azure Compliance | Microsoft Learn

Regulatory Compliance details for HIPAA HITRUST - Azure Policy | Microsoft Learn

Basic Azure Concepts from Deploy Fabric Capacity Use Case

Azure subscription contributor or owner (create Fabric capacity)	<participant's name>
Azure privileged role administrator or Azure global administrator (assign Fabric Administrator role)	<participant's name>
Optional: Azure subscription user access administrator or owner (enable Fabric administrator to resume, pause, and resize a Fabric capacity)	<participant's name>
Fabric administrator	<participant's name>
Azure subscription	<Azure subscription name>
Azure resource group	<Azure resource group name>
Fabric capacity name	<capacity name>
Azure region	<Azure region name>
Service principal name or username for Fabric capacity administrator	<service principal name> <username@domain.com>
Microsoft 365 mail enabled group OR Entra ID security group for Fabric administrators (must have "Microsoft Entra roles can be assigned to the group")	<group name>
Fabric administrator(s) name	<username@domain.com>
Entra ID security group for Fabric capacity contributors (optional)	<group name>
Fabric capacity contributors (optional)	<username@domain.com>

Basic Azure Concepts

Tenant	Top-level identity and directory boundary for an organization. It is dedicated instance of Microsoft Entra ID and is the security and identity container for all users, groups, and enterprise apps
Entra ID	Cloud identity and access management service (Previously known as Azure Active Directory)
Global administrator	Highest-privilege role in Entra ID. Note: default permissions don’t include all permissions
Privileged role administrator	Manages role assignments in Entra ID. This role can assign or remove most directory roles (including Global Administrator) and manage role settings
Subscription	Billing and resource container. It defines quotas, costs, and administrative boundaries for Azure resources and is associated with a single tenant

Basic Azure Concepts

Contributor	Can create, modify, and delete Azure resources within a scope (subscription, resource group, or resource). It cannot assign roles or change access permissions
Owner	Has full control over resources, including the ability to assign roles and manage access
User access administrator	Manage role assignments at the subscription or resource group level
Resource group	Logical container for Azure resources that share a lifecycle. It helps organize, manage, and apply policies or RBAC to related resources as a unit
Region	Geographic location containing one or more datacenters
Service principal	An identity used by applications, scripts, or automation to authenticate to Azure. It allows non-human workloads to securely access resources using least-privilege permissions

Sharing a Fabric Capacity Reservation

- Select a scope

- Single resource group scope

- Single subscription scope

- Shared scope
  - For enterprise customers, the billing context is the EA enrollment
  - For Microsoft Customer Agreement customers, the billing scope is the billing profile
  - For pay-as-you-go customers, the shared scope is all pay-as-you-go subscriptions created by the account administrator

- Management group

Save costs with Microsoft Fabric Capacity reservations - Microsoft Cost Management | Microsoft Learn

References

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- Regulatory Compliance details for HIPAA HITRUST - Azure Policy | Microsoft Learn

Thank-you!

Sound off.
The mic is all yours.
Influence the product roadmap.

Join the Fabric User Panel

Share your feedback directly with our Fabric product group and researchers.

https://aka.ms/JoinFabricUserPanel

Join the SQL User Panel

Influence our SQL roadmap and ensure it meets your real-life needs

https://aka.ms/JoinSQLUserPanel

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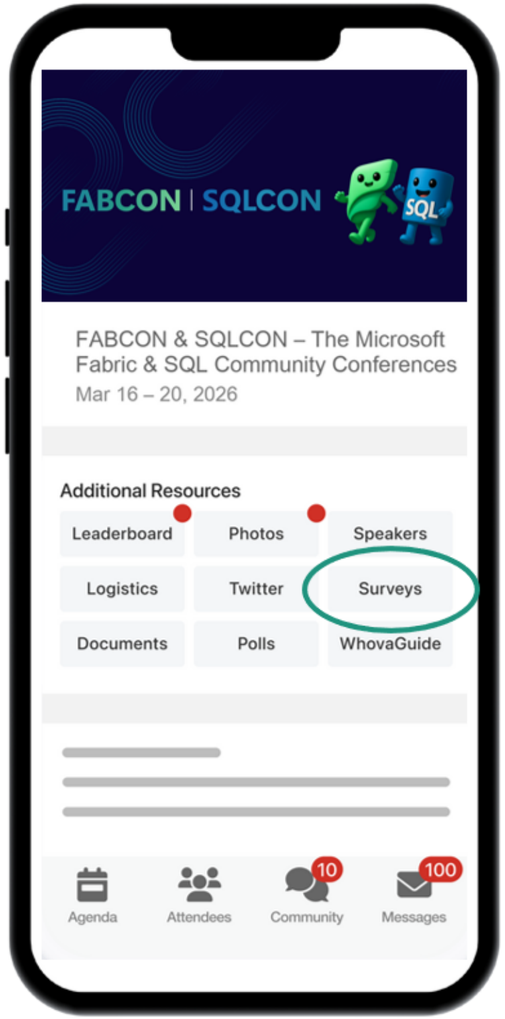

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