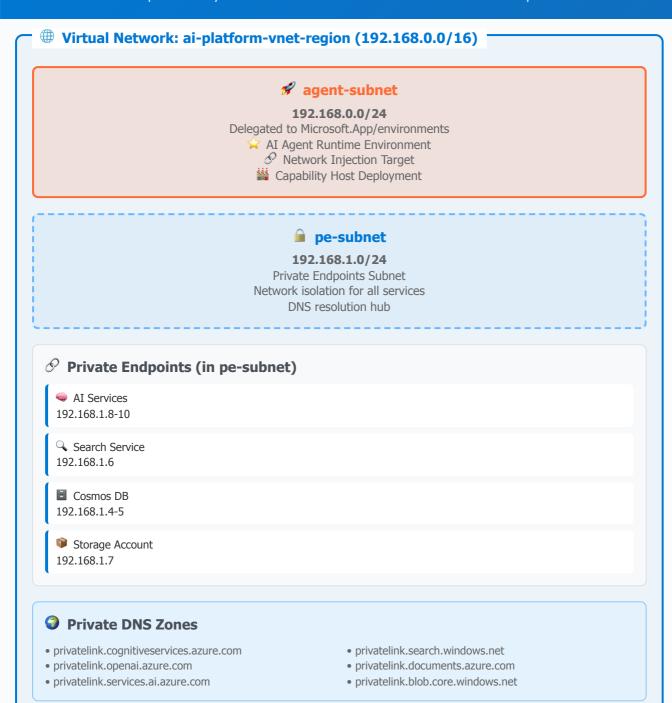
Azure AI Services Infrastructure

Enterprise-Ready AI Platform with Network Isolation & Private Endpoints





Azure AI Services Hub

ai-services-platform

AI Foundry Hub Service:

Project: ai-platform-project Model: GPT-40 (GlobalStandard) Capability Host: Agents

Connected Resources:

• Q Vector Store: ai-search-platform

• Storage: ai-storage-platform

• 🖥 State Store: ai-cosmos-platform

Solution External Connections:

Microsoft Fabric Workspace

Databricks Genie Analytics

• II Power BI Premium Datasets

Data Lake Gen2 Sources

§ Security Features:

• Content Safety (DefaultV2 Policy) • AAD Authentication • Private Endpoint Only • System Assigned Identity



Azure AI Search

ai-search-platform

Configuration:

• Standard SKU (1 replica, 1 partition) • Vector Store for RAG Operations • System Assigned Identity • AAD Authentication Enabled • Public Network Access: Disabled • Semantic Search: Disabled

■ Network Security:

• Private Endpoint: 192.168.1.6 • DNS Zone: privatelink.search.windows.net • Connection State: Approved



Azure Cosmos DB

ai-cosmos-platform

State Store Configuration:

• SQL API with Session Consistency • Database: platform memory • Autoscale: 100-1000 RU/s per container • TLS 1.2+ Only, Local Auth Disabled

State Store Containers:

• agent-entity-store (Agent persistence) • conversation-state-store (Conversation state) • system-state-store (System state)

Security:

• Role-based Access Control • Private Endpoint: 192.168.1.4-5 • Geo-redundant Backup



Azure Storage Account

ai-storage-platform

Storage Configuration:

• StorageV2, Standard ZRS • Services: Blob, File, Queue, Table • Hot Access Tier • TLS 1.2+ Only

Containers:

• platform-blobstore (Project artifacts) • platform-agent (Agent runtime data)

Security Features:

• No Public Blob Access • Shared Key Access: Disabled • Private Endpoint: 192.168.1.7 • Cross-tenant Replication: Disabled

