Aoyin Network

−Microsoft professional service provider

The partnership between Aoyin and Microsoft

Microsoft

Specialization Partner

Data & AI

AI Platform on Microsoft Azure

Microsoft

Specialization Partner

Infra and Database Migration to Microsoft Azure

Microsoft Solutions Partner

- **Certifications quantity：21**
- **Certifications type：10**

- AZ-140 Microsoft Certified: Azure Virtual Desktop Specialty
- AZ-700 Microsoft certified： Azure Network Engineer Associate
- Azure -104Microsoft Azure Administrator
- Azure -305Azure Solutions Architect Expert
- Azure Administrator Associate
- Azure Developer Associate
- Azure-700Microsoft certified： Azure Network Engineer Associate
- Microsoft Certified: Azure Administrator Associate
- Microsoft Certified: Azure Data Engineer Associate
- Microsoft Certified: Azure Fundamentals
- Microsoft Certified: DevOps Engineer Expert
- Microsoft 365 Certified: Fundamentals
- Microsoft 365 Certified: Messaging Administrator Associate
- Microsoft 365 Certified: Teams Administrator Associate

Maximize the use of Azure OpenAI to enhance cross-border access

Challenge

### Regarding network and invocation restrictions

- The challenges of cross-border resource deployment and network connectivity.
- Accessing GPT models and similar types of models in Azure OpenAI services through the Singapore network via cloud nodes using Azure network optimization solutions, although there are certain optimization measures, is still susceptible to network fluctuations during cross-border transmission.

In terms of model access experience

- The business requires diverse model capabilities, such as using models like deepseek deployed on Azure as the foundational model.
- Even with network optimization solutions, accessing overseas models from within the country still results in significant latency issues due to distance factors, while the network stability is poor, leading to interruptions or connectivity problems.
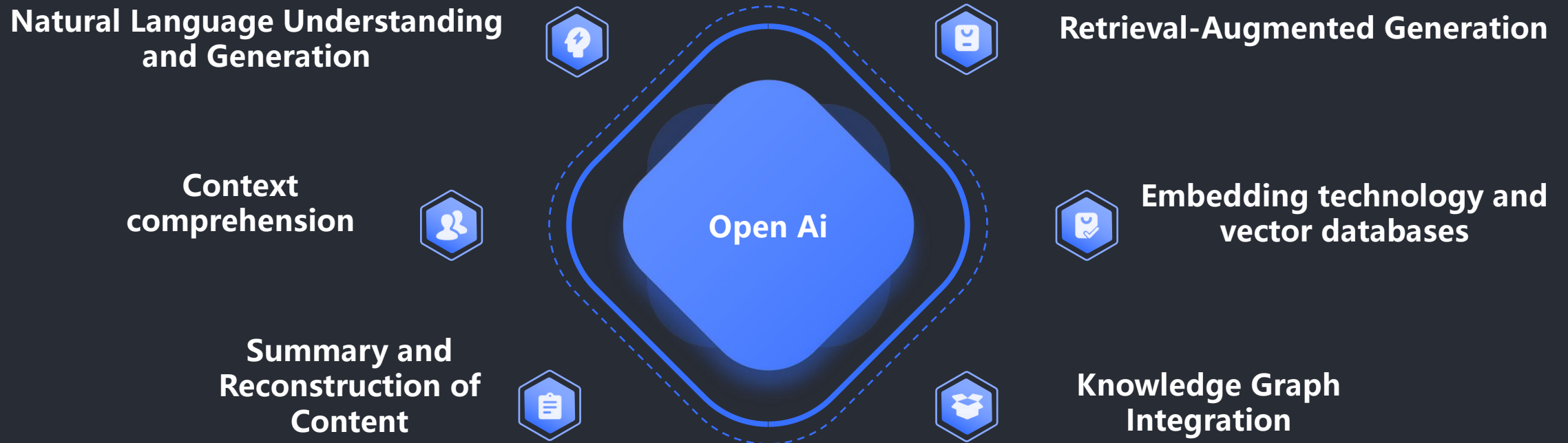
Solution

01

- **Network construction and acceleration**

Deploy Azure Virtual WAN devices in the domestic Office, and after the resources are in place, debug the routing tables and subnets, establishing a dedicated connection with Azure ExpressRoute to the Azure overseas node VPC. Azure Virtual WAN integrates network functions, while ExpressRoute provides low-latency, high-bandwidth links, bypassing the public network to achieve fast and stable connections between domestic and international networks.

02

- **Multi-user and model service management**

Utilizing Azure Entra ID, create roles such as administrators and regular users based on business needs, and accurately assign permissions for model calls like Claude and Stable Diffusion. Publish and protect model APIs through Azure API Management, adapting to user request formats. Build backend logic with Azure Functions to handle user interactions with the models, ensuring efficient and secure usage of model services for multiple users.

03

- **Data storage processing**

Store enterprise and model service data in Azure Blob Storage to meet the needs of unstructured data storage. Structured data is managed using Azure SQL Database. Azure Blob Storage offers high scalability, availability, and security, combined with Azure SQL Database to meet diverse business data storage and processing requirements.

Results
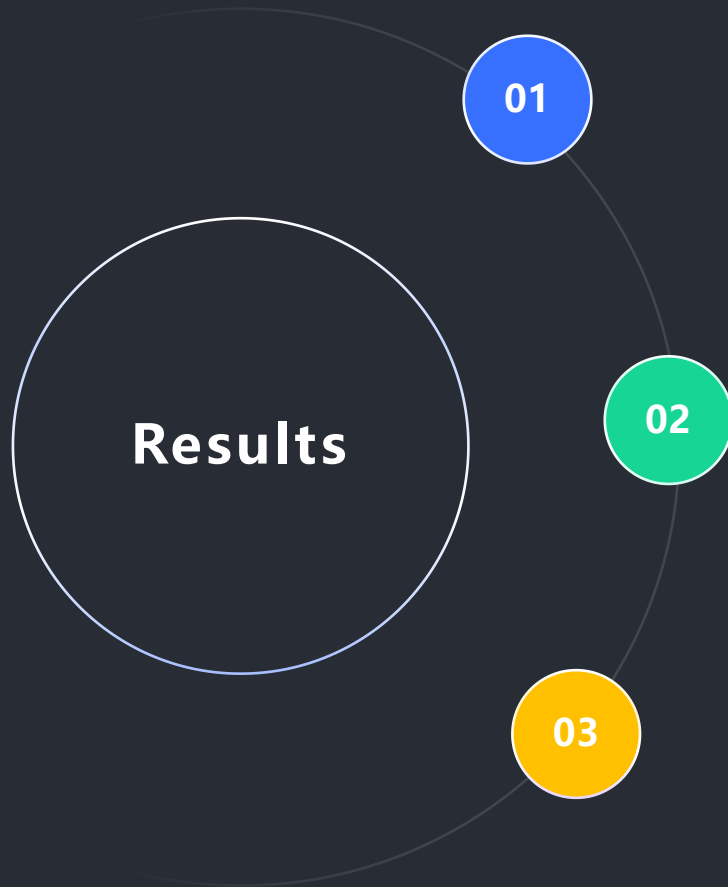
Network efficiency improvement

Azure Virtual WAN integrates network functions, paired with the low-latency, high-bandwidth links of ExpressRoute, bypassing public networks to connect to Azure's overseas node VPCs. This reduces network latency and enhances office collaboration and interaction efficiency with overseas resources.

01

Model service optimization

Utilize Azure Entra ID to accurately assign permissions based on business roles. Azure API Management manages the publishing, protection, and format adaptation of APIs, while Azure Functions handles interaction logic. Ensure data security, allowing users to smoothly invoke models and strengthen the support of model services for business operations.

02

Data storage is effective.

Azure Blob Storage handles unstructured data with high scalability, availability, and security; Azure SQL Database manages structured data, enabling efficient storage, querying, and analysis. The combination of both allows for secure storage of various types of data, meeting diverse business scenarios and assisting enterprises in driving development through data.

03

THANKS FOR EVERYONE

Aoyin Network is an excellent cloud service provider, providing many customers with cloud migration, artificial intelligence, Data AI and other solutions.