

Screenshots with Descriptions

1. Resource Group Overview

The screenshot shows the Azure Resource Groups overview page for the 'QnABotRG' resource group. The left sidebar includes links for Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings, Cost Management, Monitoring, Automation, and Help. The main content area displays the 'Overview' section with a summary of the resource group's status: Subscriptions (1), Deployments (19 Success), and Location (West Europe). It lists 21 resources under 'Resources' and 'Recommendations (25)'. The 'Resources' table includes columns for Name, Type, and Location. The 'Recommendations' table includes columns for Type, Location, and Status.

Name	Type	Location
privatehlk.azuredns.net	Private DNS zone	Global
privatehlk.cognitiveservices.azure.com	Private DNS zone	Global
QnA-BOT-LANG-05	Language	West Europe
QnA-BOT-LANG-05-bot	Azure Bot	Global
QnA-BOT-LANG-05-bot	Managed identity	West Europe
QnA-BOT-LANG-05-bot-R0d9	App Service	West Europe
qna-bot-lang-05-pe	Private endpoint	West Europe
qna-bot-lang-05-pe-nu	Network interface	West Europe
QnA-BOT-LANG-05-serverfarm-3e97f	App Service plan	West Europe
emulsion05-assaultpublicdns	Search service	West Europe
emulsion05-assaultpublicdns	Storage account	West Europe
qnaexperience05	Virtual network	West Europe
QnABotNet	Backend	West Europe
QnABotNet-bastion	Public IP address	West Europe
QnABotNet-ip	Application gateway	West Europe
QnAGateway	Public IP address	West Europe
QnAGatewayPublicIP	Search service	West Europe
qnaexperience05	Virtual machine	West Europe
TestM		

Caption:

This screenshot shows all Azure resources deployed within the QnABotRG resource group, including the AI Language service, Azure AI Search, Blob Storage, Private Endpoints, VNet, and more.

2. Blob Storage with Knowledge Files

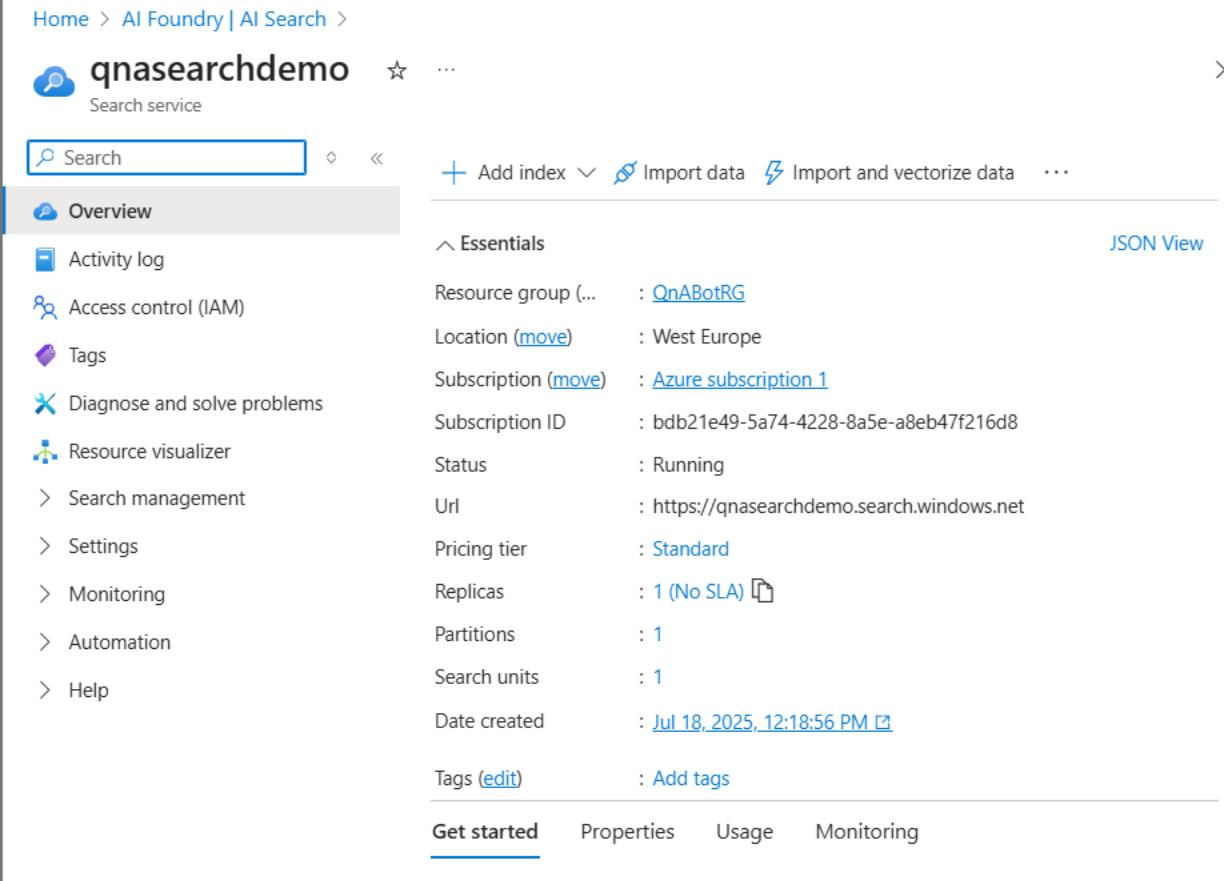
The screenshot shows the Microsoft Azure Storage accounts page for the 'qnabotstorage05' storage account. The left sidebar includes links for Home, Storage accounts, and qnabotstorage05. The main content area displays the 'Containers' section, showing two containers: '\$logs' and 'documents'. The '\$logs' container was last modified on 7/18/2025 at 12:21:58 PM and has a private anonymous access level. The 'documents' container was last modified on 7/18/2025 at 12:35:23 PM and also has a private anonymous access level.

Name	Last modified	Anonymous access level
\$logs	7/18/2025, 12:21:58 PM	Private
documents	7/18/2025, 12:35:23 PM	Private

Caption:

Documents for the QnA bot are uploaded here. These files are automatically indexed by Azure AI Search and form the knowledge base of the QnA bot.

3. Azure AI Search – Index Overview



The screenshot shows the Azure AI Search - Index Overview page for the "qnasearchdemo" search service. The left sidebar includes links for Home, AI Foundry | AI Search, Overview (which is selected), Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Search management, Settings, Monitoring, Automation, and Help. The main content area displays the "Essentials" section with the following details:

Essentials	
Resource group (...	: QnABotRG
Location (move)	: West Europe
Subscription (move)	: Azure subscription 1
Subscription ID	: bdb21e49-5a74-4228-8a5e-a8eb47f216d8
Status	: Running
Url	: https://qnasearchdemo.search.windows.net
Pricing tier	: Standard
Replicas	: 1 (No SLA) 
Partitions	: 1
Search units	: 1
Date created	: Jul 18, 2025, 12:18:56 PM 
Tags (edit)	: Add tags

At the bottom of the page, there are tabs for Get started (which is underlined), Properties, Usage, and Monitoring.

Caption:

The index created in Azure AI Search reflects structured parsing of documents from Blob Storage. This enables full-text and semantic search across the uploaded knowledge base.

4. Azure AI Language Studio – QnA Project

The screenshot shows the Azure AI Language Studio interface. At the top, there's a banner with the text "Try new features in Azure AI Studio" and a message about Azure AI Language tools being available in AI Studio. It also includes a "Visit AI Studio" button and a "X" button. The main area is titled "Welcome to Language Studio" and shows a list of "Recent custom projects you've worked on". One project, "QnADocBot", is listed as a "Custom question answering" project with 2 items. Below the list are several navigation and search filters: "Featured" (which is underlined), "Extract information", "Classify text", "Understand questions and conversational language", "Summarize text", and "Translate text".

Caption:

This QnA project uses Azure AI Language to interpret user questions and provide relevant answers using the indexed documents.

5. QnA Project: Add Knowledge Source

Azure AI | Language Studio

Try new features in Azure AI Studio
Azure AI Language tools are coming to AI Studio. Check out Extract PII from conversation, Summarize for call center, and many other Language skills in AI Studio playground now.

navkirats18@gmail.com NS
... QNA-BOT-LANG-05 (westeurope, F0)

Visit AI Studio X

» Language Studio > Custom question answering > QnADocBot - Manage sources

Manage sources

Add source Edit name Refresh URL Delete 2 items in list Filter

Source name	Unstruc
Source ↓	No
qna_chitchat_Professional	No
azure-faq.xlsx	No

Caption:

Here, the Azure AI Search index is connected as a knowledge source to the QnA project. This enables the bot to pull answers directly from indexed documents.

6. QnA Project: Publish Project

Deploy knowledge base

Deploy knowledge base and create a bot in a few clicks.

 Deploy  Get prediction URL

 Your knowledge base is now deployed. You can get your prediction URL or create a bot.



Knowledge base status

State: 	Deployed 	Resource: QNA-BOT-LANG-05
Deployment Date: 	7/18/2025 	Location: westeurope
Deployment Time: 	1:48:10 PM 	Tier: Free (F0)

Next steps: Create a bot

Step 1: [Read the documentation](#) to learn more about creating bots.

Step 2: Go to Azure to create a bot.

[Create a bot](#)



After configuration, the QnA project is published and made accessible through the Azure AI Language endpoint, secured with a Private Endpoint.

7. Private Endpoint for Azure AI Language

qna-bot-lang-05-pe Private endpoint

Overview

Essentials

Resource group (move)	: qnabotrg
Location	: West Europe
Subscription (move)	: Azure subscription 1
Subscription ID	: bdb21e49-5a74-4228-8a5e-a8eb47f...
Provisioning state	: Succeeded
Virtual network/subnet	: QnABotVNet/PrivateEndpointSubnet
Network interface	: qna-bot-lang-05-pe-nic
Private link resource	: QNA-BOT-LANG-05
Target sub-resource	: account
Connection status	: Approved
Request/Response	: Approved
Tags (edit)	: Add tags

JSON View

Caption:

A Private Endpoint is created to securely access the QnA service, ensuring no public internet traffic reaches the Azure AI Language resource.

8. Virtual Network and Subnets

QnABotVNet | Subnets

Subnets

Name	IPv4	IPv6	Available IPs	Delegated to	Security group	Route
AppGatewaySubnet	10.10.0.0/25	-	availability dependent on ...	-	-	-
PrivateEndpointSubnet	10.10.0.160/27	-	25	-	-	-
AzureBastionSubnet	10.10.0.192/26	-	57	-	-	-

Caption:

Subnets are configured to isolate different components such as App Gateway, Bot service, and Private Endpoints. This supports network segmentation and secure access control.

9. Application Gateway Configuration (Optional)

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes 'Microsoft Azure', 'Upgrade', a search bar ('Search resources, services, and docs (G+)'), 'Copilot', and user information ('navkirats18@gmail.com' and 'DEFAULT DIRECTORY (NAVKRAT...)'). Below the navigation is a breadcrumb trail: 'Home > Load balancing and content delivery > Application gateways > QnAGateway'. The main content area is titled 'QnAGateway | Frontend IP configurations' and shows a table of configurations:

Type	Status	Name	IP address	Associated listeners
Public	Configured	appGwPublicFrontendIpV4	9.163.148.160 (QnAGatewayPublicIP)	QnAListener
Private	Not configured	-	-	-

Caption:

Azure Application Gateway is configured to handle incoming traffic, apply security policies (WAF), and route traffic to the bot via secure TLS termination.

10. Bot Registration and Microsoft Teams Channel

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes 'Microsoft Azure', 'Upgrade', a search bar ('Search resources, services, and docs (G+)'), 'Copilot', and user information ('navkirats18@gmail.com' and 'DEFAULT DIRECTORY (NAVKRAT...)'). Below the navigation is a breadcrumb trail: 'Home > AI Foundry > Bot services > QNA-BOT-LANG-05-bot'. The main content area is titled 'QNA-BOT-LANG-05-bot | Channels' and shows a table of connected channels:

Channel	Health status	Details	Actions
Direct Line	Healthy	REST API for communicating directly with a bot	
Microsoft Teams	Healthy	Microsoft Teams Channel	Open in Teams
Web Chat	Healthy	Embeddable Web Chat control	

Below the table, there is a section titled 'Available Channels' with a list of options:

Channel	Details
Alexa	Alexa Channel
Communication Services - Chat	Communication Services - Chat Channel
Direct Line Speech	Direct Line Speech Channel

Caption:

The bot is registered with Microsoft Teams as a channel, enabling real-time conversations within the Teams interface.

11. Bot Working in Microsoft Teams

 Caption:

This screenshot demonstrates the bot successfully responding to user queries in Microsoft Teams using knowledge from the uploaded documents.

