

## AI INNOVATION SANDBOX

Experience innovation and creativity with Azure AI technologies with a dedicated, automated, and AI-enabled environment and sample AI based web app.



# The Azure Landing Zone

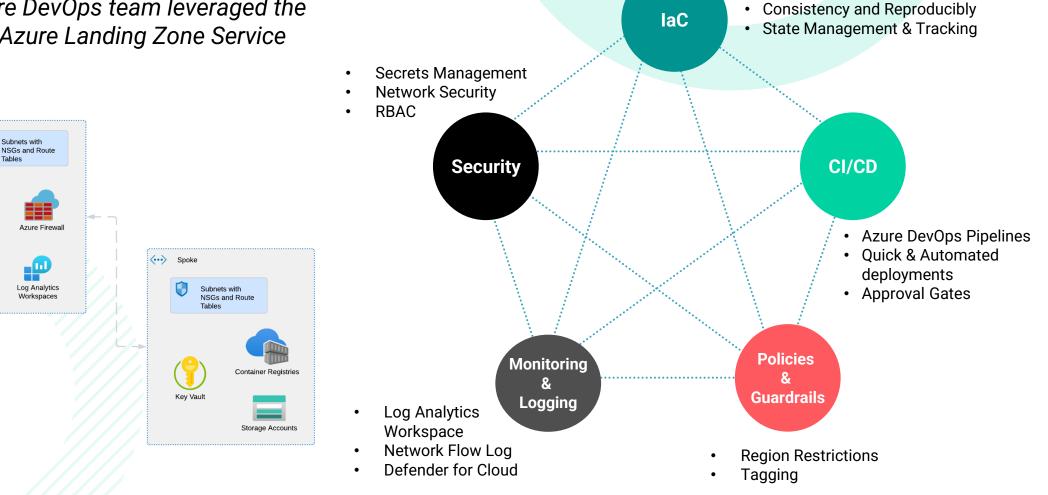
The Version 1 Azure DevOps team leveraged the existing Version 1 Azure Landing Zone Service offering.

Subnets with

Tables

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Storage Accounts





Terraform

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## **Al Innovation Sandbox**

- Stand-alone Azure tenant
- Customizable Azure Policies
- One subscription, One Cost Centre
- AI Enabled out of the box
- Sample AI application
- IaC, DevOps, Pipelines
- ML, AI, Compute, Database, Networking and Logging modules





## The Azure AI Workload

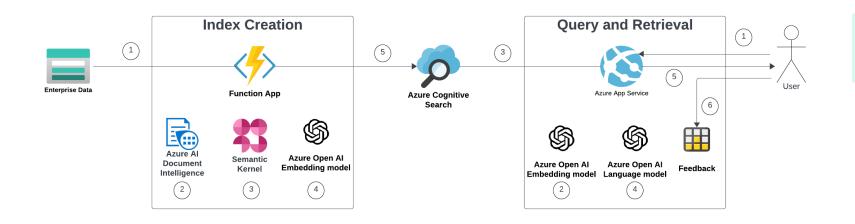
The Version 1 Innovation Lab created a Proof of Value (PoV) workload using Azure AI Services. This helps customers recognise potential use cases.

- ChatGPT-like service, backed by enterprise data.
- Allows customer to query their data in a natural way and receive natural responses, grounded in customer datasets.
- The PoV workload used the *gov.uk* website as the data source for the chatbot.
- The PoV provided a citation link so users can view the underlying data source of responses.

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## The Azure AI Workload



### **Index Creation**

- 1. Get documents from external data sources
- 2. Extract content from documents
- 3. Split/chunk documents
- 4. Convert chunks into embeddings
- 5. Store vector embeddings in cognitive search

#### **Query and Retrieval**

- 1. User sends query to chatbot
- 2. Query converted to vector embeddings.
- 3. Azure Cognitive Search performs and hybrid search to retrieve the top results.
- 4. The top results and any system prompts are sent to Azure OpenAI.
- 5. A natural language answer and the search results are returned to the user.
- The users can provide quantitate and qualitative feedback to these responses.





#### 1. Accelerates ability to use AI

The straightforward IaC and CI/CD pipelines enables you to start experimenting with Azure AI Services immediately.

### 2. Helps you gain confidence in using Azure AI services

A range of AI services and supporting services was provided by Version 1. Your engineers now have a space to gain familiarity with these services.

### 3. Isolated environment increases engineering velocity

The isolated environment allows you to bypass any governance in their existing Azure environment and start experiment different AI use cases immediately.

### 4. PoV helps you to hit the ground running with Al

The value-add, AI workload helps you hit the ground running. They can leverage the AI chatbot that the Version 1 team built to start working with AI immediately.

