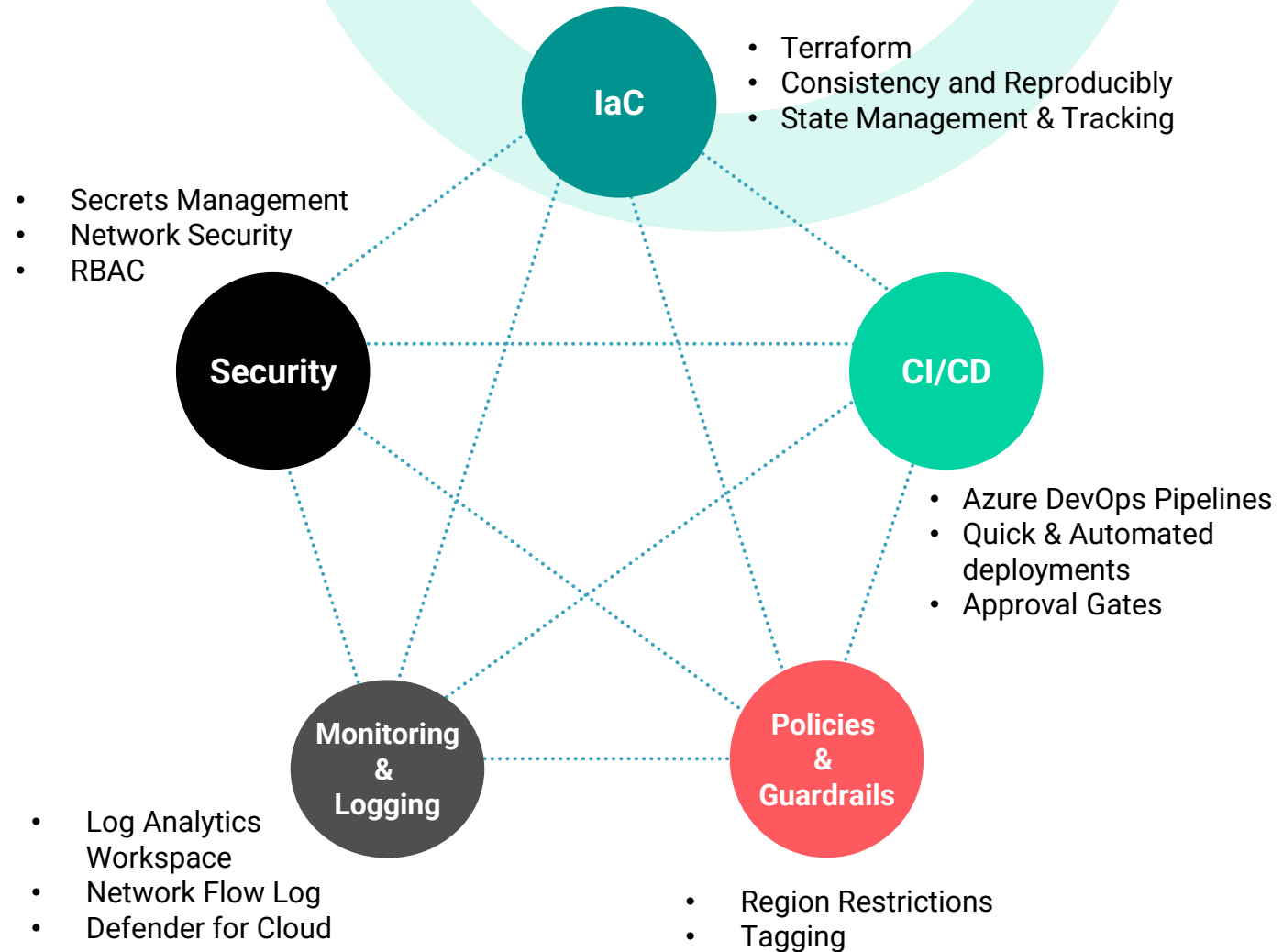
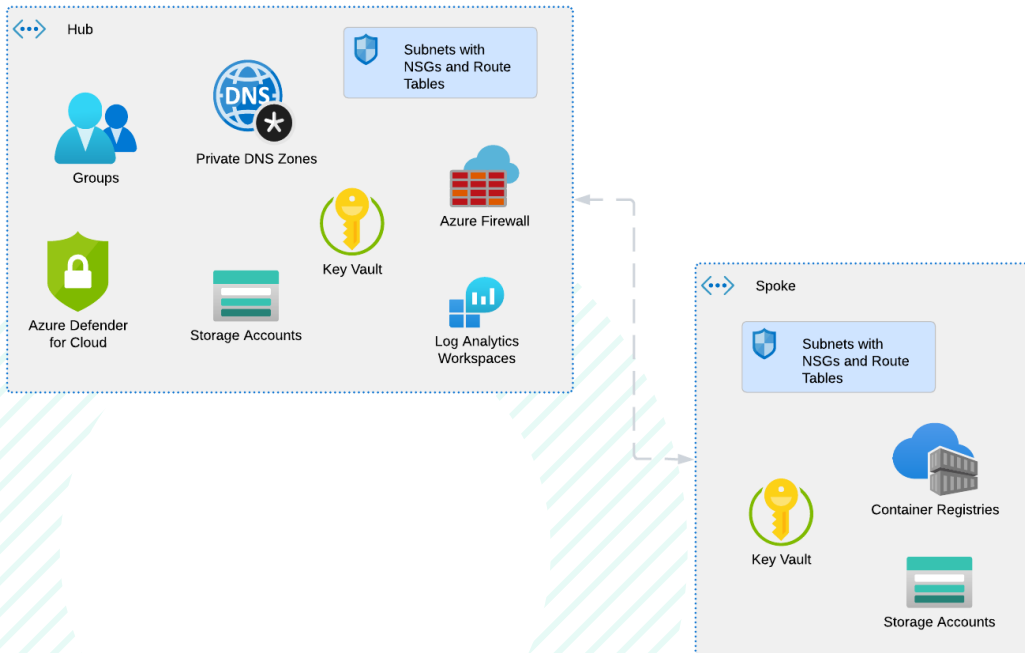


AI INNOVATION SANDBOX

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.



AI Innovation Sandbox

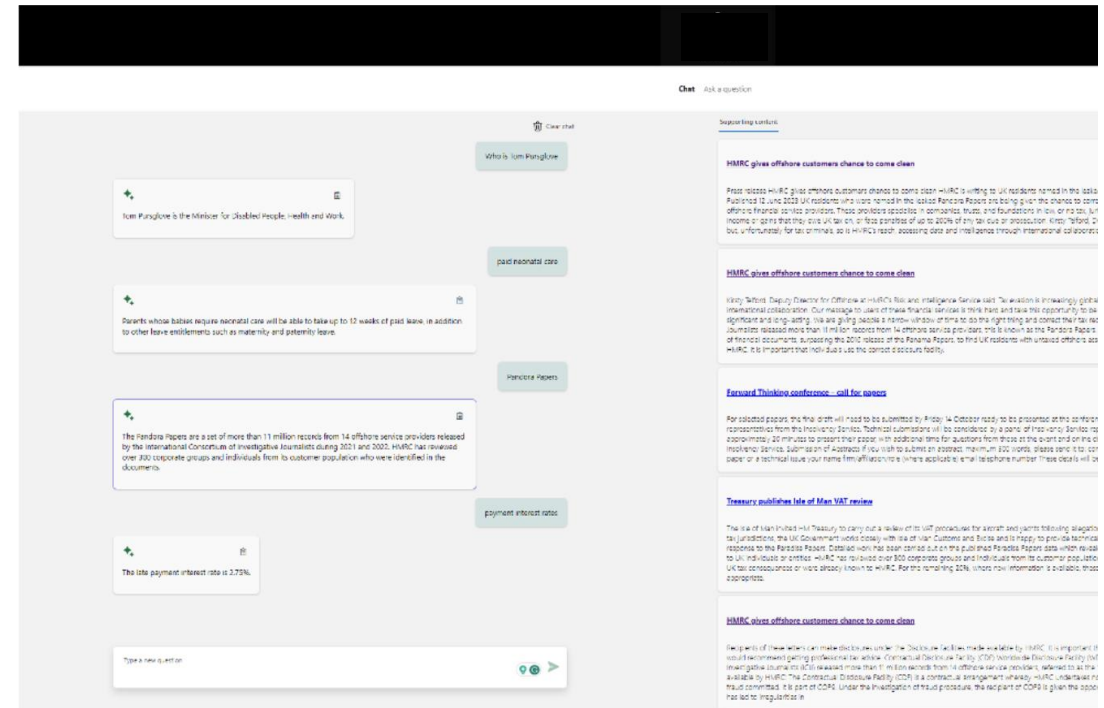
- Stand-alone Azure tenant
- Customizable Azure Policies
- One subscription, One Cost Centre
- AI Enabled out of the box
- Sample AI application
- IaC, DevOps, Pipelines
- ML, AI, Compute, Database, Networking and Logging modules



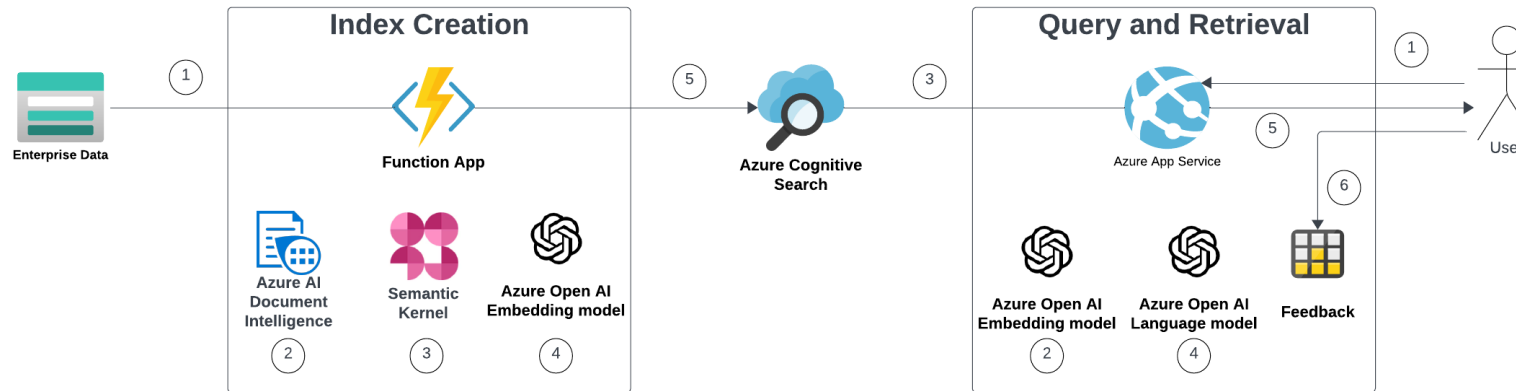
The Azure AI Workload

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.



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.
6. The users can provide quantitative and qualitative feedback to these responses.

Benefits

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 AI

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.