

Ubona Deployment Prerequisites in Azure Subscription

This document outlines the necessary prerequisites for deploying Ubona services in the Optum's Azure subscription.

1. Azure Subscription [🔗](#)

- A dedicated **Azure subscription** must be created and available for Ubona deployment.
- Ensure billing and access policies are properly configured.

2. Compute and Networking Quotas [🔗](#)

Verify and ensure quota availability for the following resources:

VM Size Quotas: [🔗](#)

| VM Size | Required |
|------------------|----------|
| Standard_B2s | ✓ |
| Standard_D4as_v4 | ✓ |
| Standard_DS2_v2 | ✓ |

Action: Confirm these VM quotas are available in the **intended region** of deployment.

3. CIS Hardened Image Subscription [🔗](#)

- The subscription must be **subscribed to CIS Hardened Images** for Rocky Linux 9:
 - **Publisher:** Center for Internet Security
 - **Plan ID:** `cis-rockylinux-9-11-gen2`
- All Ubona VMs will be deployed using this hardened image via Terraform.

4. Azure Blob Storage [🔗](#)

A dedicated Azure **Storage Account** must be created to house Ubona-related data artifacts. This storage will be used across deployment, monitoring, and auditing functions.

- The Storage Account must include the following **containers**:
 - `logs` : For storing application, infrastructure, and diagnostic logs.
 - `tfstate` : To store Terraform state files.
 - Ensure **state locking** and **versioning** are enabled (e.g., via blob lease or Azure backend settings).
 - `recordings` : To store audio/video recordings or data captures relevant to Ubona's functionality.

5. Azure Access for Ubona User [🔗](#)

- A **dedicated Azure AD user** (Ubona automation user) must have:

Required Permissions [🔗](#)

1. Subscription Level:

- `Contributor` role on the subscription

2. Storage Account (Access to Storage account created in Step 4):

- `Storage Blob Data Contributor` on the storage account for state file and recording operations
- `Storage Account Contributor` for managing storage account settings

3. Key Vault (within subscription):

- `Key Vault Secrets User` at minimum for reading secrets during deployment
- `Key Vault Administrator` to create and manage Key Vault and its secrets

4. Compute:

- `Virtual Machine Contributor` for creating and managing virtual machines
- `Shared Image Gallery Contributor` for accessing the CIS image gallery

5. OpenAI Integration and Speech Services Integration:

- `Cognitive Services Contributor` for creating and managing OpenAI/Speech Service resources

Note: This user will be used by Terraform to deploy IaaS resources into the Optum's environment.

6. MySQL Flexible Server (POC-Specific Deployment) [🔗](#)

As part of the POC, the **MySQL Flexible Server** required for Ubona will **not be provisioned through Terraform** and will instead be deployed manually.

- This server must be **launched via Azure Console** by the **Optum team**, with deployment parameters and guidance provided by the Ubona team.
- The deployment should be done after all other Ubona resources have been provisioned using Terraform.
- Configuration details (e.g., SKU, backup, redundancy, firewall rules) will be shared by Ubona to ensure compatibility and integration with the deployed infrastructure.

💡 Ensure that:

- The server is placed in the same **resource group** or **virtual network**.
- Required **firewall or VNet integration** is configured to allow internal communication with Ubona services.
- Admin credentials or access policies are managed securely, ideally referencing **Azure Key Vault**.