◆ Demo: Create and Configure Azure App Service

Step 1: Log in to Azure Portal

1. Go to 👉 https://portal.azure.com.

2. Sign in with your Azure account.

Step 2: Create a Resource Group (if not already available)

1. In the left menu, click **Resource Groups** → **Create**.

2. Enter details:

   - **Subscription**: Choose your Azure subscription.

   - **Resource group**: e.g., `rg-demo-appservice`.

   - **Region**: Select a region close to your users (e.g., East US).

3. Click **Review + Create** → **Create**.

Step 3: Create an App Service

1. In the portal search bar, type **App Services** → click **Create**.

2. Fill in the details:

- **Basics** tab:

    - **Subscription**: Select your subscription.

    - **Resource Group**: Choose `rg-demo-appservice`.

    - **Name**: e.g., `mydemo-webapp` (must be unique across Azure).

    - **Publish**: Choose **Code** (or Docker Container if using containers).

    - **Runtime stack**: Choose language (e.g., .NET 6, Node.js, Python, Java).

    - **Operating System**: Windows or Linux.

    - **Region**: Same as resource group.

    - **App Service Plan**: Create new → choose **B1 (Basic)** for demo.

- **Monitoring** tab:

    - Enable **Application Insights** → Yes → Select region.

3. Click **Review + Create** → then **Create**.

⚡ Deployment takes 1–2 minutes.

Step 4: Deploy a Sample Web App

Option A – From Azure Quickstart

1. Once the App Service is created, go to **Deployment Center**.

2. Select **Quickstart** → choose a sample app (like Node.js, .NET, or Python).

3. Deploy → Wait until completed.

Option B – Manual Deployment via GitHub

1. In **Deployment Center**, select **GitHub**.

2. Authorize Azure → Choose repository & branch.

3. Save → Azure will auto-deploy your app.

Step 5: Configure App Service

1. Go to your App Service → **Configuration**.

   ○ Add **Application Settings** (Environment Variables).

   ○ Example: `Key=DemoValue`.

2. Go to **TLS/SSL Settings** → enable **HTTPS Only**.

3. Go to **Custom Domains** → (Optional) Add a custom domain.

Step 6: Scale Your App

1. In the App Service menu → **Scale Out (App Service Plan)**.

2. Configure **Autoscale rule** → e.g.,

   ○ If CPU > 70% for 5 minutes → add 1 instance.

3. Save changes.

Step 7: Test the App

1. Go to **Overview** of your App Service.

2. Copy the **Default URL** (e.g., `https://mydemo-webapp.azurewebsites.net`).

3. Open in browser → you should see your app running 🎉.

Step 8: Monitor the App

1. In App Service → click **Application Insights**.

2. Check request logs, failures, performance metrics.

3. (Optional) Set up **alerts** for errors or high CPU usage.

✅ **Result:** You have successfully **created, deployed, and configured an Azure App Service** with monitoring and scaling.