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Steps to deploy API in Azure as web services using CLI:

Step 1: Prepare your ML app files:

- Ensure your ML app files, including app.py and any dependencies, are ready in a local directory.

Step 2: Install Azure CLI:

- Download and install the Azure Command-Line Interface (CLI) from https://docs.microsoft.com/en-us/cli/azure/install-azure-cli

Step 3: Login to Azure CLI:

- Open your terminal or command prompt and run:

az login

- Follow the authentication process in your web browser.

Step 4: Create an Azure Resource Group (optional but recommended):

- Run:

az group create --name YourResourceGroupName --location YourAzureRegion

- Replace 'YourResourceGroupName' with a unique name and 'YourAzureRegion' with the desired region.

Step 5: Create an Azure App Service Plan:

- Run:

az appservice plan create --name YourAppServicePlanName --resource-group YourResourceGroupName --sku FREE –-is-linux

- Replace 'YourAppServicePlanName' with a unique name and 'YourResourceGroupName' with your resource group name.

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Step 6: Create an Azure Web App:

- Run:

az webapp create --resource-group YourResourceGroupName --plan YourAppServicePlanName --name MyUniqueAppName --runtime "PYTHON|3.8" —-deployment-local-git

- Replace 'YourWebAppName' with a unique name and 'YourAppServicePlanName' with the name of the App Service plan.

- When you enable local Git deployment, Azure creates a Git repository associated with your web app. You can add this repository as a remote in your local Git repository, allowing you to push your code changes to Azure for automatic deployment.

Step 7: Connecting the Web App to App Files:

a. Connect the Azure Web App to Azure Remote Repo:

- Run:

az webapp deployment source config-local-git --name YourWebAppName --resource-group YourResourceGroupName

- Azure remote repo link will be displayed

- navigate to the api files folder and commit to local git and link your local git to remote azure by:

git remote add azure https://YourWebAppName.scm.azurewebsites.net/YourWebAppName.git

- Push your ML app files (app.py, etc.) to the to web app:

git push azure master

- Azure will automatically deploy the app to the Web App.

b. Connect the Azure Web App to GitHub:

To deploy your ML app from GitHub, you need to connect your Azure Web App to your GitHub repository. Run the following command to set up the deployment source:

az webapp deployment source config --name YourWebAppName --resource-group YourResourceGroupName --repo-url YourGitHubRepoURL --branch YourGitHubBranch --manual-integration

Step 8: Access your deployed ML app:

- Once the deployment is successful, access your ML app at:

https://YourWebAppName.azurewebsites.net