How to Redeploy Your FastAPI Docker App to Azure

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# 1. Make Code Changes Locally

Update your FastAPI application code as needed (e.g., routes, logic, models).

Ensure your changes are saved and committed to your local project folder.

# 2. Build the Docker Image (linux/amd64 compatible)

Use Docker Buildx to create an Azure-compatible image:

docker buildx create --use --name aada-builder || true

docker buildx use aada-builder

docker buildx build --platform linux/amd64 -t aadaregistry12345.azurecr.io/aada-backend:latest --push .

# 3. Restart the Azure App Service

Once the image is pushed to your Azure Container Registry (ACR), restart the web app:

az webapp restart --name aada-backend-app12345 --resource-group aada-backend-rg

# 4. Monitor Logs (Optional)

To confirm the app is starting correctly, tail the logs:

az webapp log tail --name aada-backend-app12345 --resource-group aada-backend-rg

# 5. Validate Deployment

Open your browser and go to:

- https://aada-backend-app12345.azurewebsites.net/ → should return API is up message

- https://aada-backend-app12345.azurewebsites.net/docs → Swagger UI

- https://aada-backend-app12345.azurewebsites.net/redoc → ReDoc UI

# 6. Optional: Secure or Update Environment Settings

To change secrets or configuration (like Firebase):

- Visit Azure Portal → App Service → Configuration

- Update or add `FIREBASE\_CREDENTIALS\_JSON` if needed

- Save and restart the web app