

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