

Backend → Azure

1. Containerize your Python service

- Create a Dockerfile:

```
FROM python:3.12-slim
```

```
WORKDIR /app
```

```
COPY requirements.txt .
```

```
RUN pip install --no-cache-dir -r requirements.txt
```

```
COPY . .
```

```
EXPOSE 8000
```

```
CMD ["uvicorn", "main:app", "--host", "0.0.0.0", "--port", "8000"]
```

- Build & run locally:

```
docker build -t yourorg/aada-backend:latest .
```

```
docker run -e DATABASE_URL=... -e FIREBASE_CREDENTIALS=... -p 8000:8000 yourorg/aada-backend:latest
```

2. Push to Azure Container Registry

```
az acr login --name YourRegistry
```

```
docker tag yourorg/aada-backend:latest YourRegistry.azurecr.io/aada-backend:latest
```

```
docker push YourRegistry.azurecr.io/aada-backend:latest
```

3. Deploy on Azure App Service

```
az appservice plan create --name AadaPlan --is-linux --sku B1
```

```
az webapp create --resource-group YourRG --plan AadaPlan --name aada-backend-app --deployment-container local
```

```
az webapp config appsettings set --name aada-backend-app --resource-group YourRG --settings DATABASE_URL=...
```

4. Scheduling with Azure Functions Timer Triggers

- Monthly (1st @ 01:00): seed_invoices_local.py

- Daily (every 09:00): push_reminders.py

5. Mobile App → TestFlight

- Xcode: Set bundle ID, enable Push Notifications, archive & distribute via TestFlight.

- Optional: Fastlane lane `beta` for automated builds & uploads.