



# CDW Documentation

## Azure Open AI Chatbot Deployment Checklist

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### 1. Local Build and Testing

- Bot code tested locally with Bot Framework Emulator.
- Environment variables for `AZURE_OPENAI_ENDPOINT`, `DEPLOYMENT_ID`, and `API_KEY` correctly referenced.
- Docker container runs successfully on `localhost:3978`.

### 2. Azure Resources Setup

- Resource Group created or selected.
- Azure Container Registry (ACR) created and admin access enabled (if not using managed identity).
- Azure OpenAI Service created with deployed model (e.g., `gpt-35-turbo`).

### 3. Docker Image Build and Push

- Docker image built with `docker build -t <image> ..`
- Docker image tagged with ACR address.
- Docker image pushed to ACR.

### 4. Deployment Parameters

- Parameter values prepared, either inline or in `containerapp-params.json`.
- Verified API Key, OpenAI endpoint, and deployment ID.
- Verified ACR server, username, and password (if required).

### 5. Bicep Deployment

- Bicep template validated with `az bicep build`.
- Deployment executed with either inline parameters or parameter file.
- Verified Container App is running in Azure Portal.

### 6. Testing After Deployment

- Verified public URL responds (default port 3978).
- Connected Bot Framework Emulator to Container App URL.
- Tested conversation flow using OpenAI backend.

## 7. Security and Scaling

- Confirmed ACR access is secured.
- Configured auto-scaling (if needed).
- Applied secure ingress settings (HTTPS, auth if needed).

## 8. Observability

- Log Analytics Workspace attached.
- Application logging enabled and verified in Azure Monitor.

## 9. Log Analytics and Monitoring

- **Log Analytics Workspace** created and linked to Container App Environment.
- **App Logs** verified in **Log Analytics > Logs** with queries like:

```
AppContainerAppConsoleLogs_CL \\  
| where ContainerAppName_s == "<your-container-app-name>"\  
| sort by TimeGenerated desc
```

- **Metrics monitoring** verified (CPU, Memory, Request Count).

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## 10. Alerts Setup

- **Alert Rule for CPU Usage**
  - Example: Alert if CPU exceeds 80% for 5 minutes.
- **Alert Rule for Memory Usage**
  - Example: Alert if Memory exceeds 75% for 5 minutes.
- **Alert Rule for HTTP 500 Errors**
  - Example: Query for failed requests in Log Analytics.

### Example KQL for HTTP 500 Errors:

```
AppContainerAppConsoleLogs_CL  
| where Log_s contains "500"  
| summarize Count = count() by bin(TimeGenerated, 5m)
```

### Example Alert Setup Steps:

1. Go to **Azure Monitor > Alerts**.
2. Click + **New Alert Rule**.
3. **Select Resource**: Your Container App or Log Analytics Workspace.
4. **Condition**: Add a metric or log query condition.
5. **Action Group**: Create or select action groups (email, Teams, webhook, etc.).

**6. Alert Details:** Name and severity.**• Notification Channels Configured**

- Email
- Teams
- Webhook (optional)