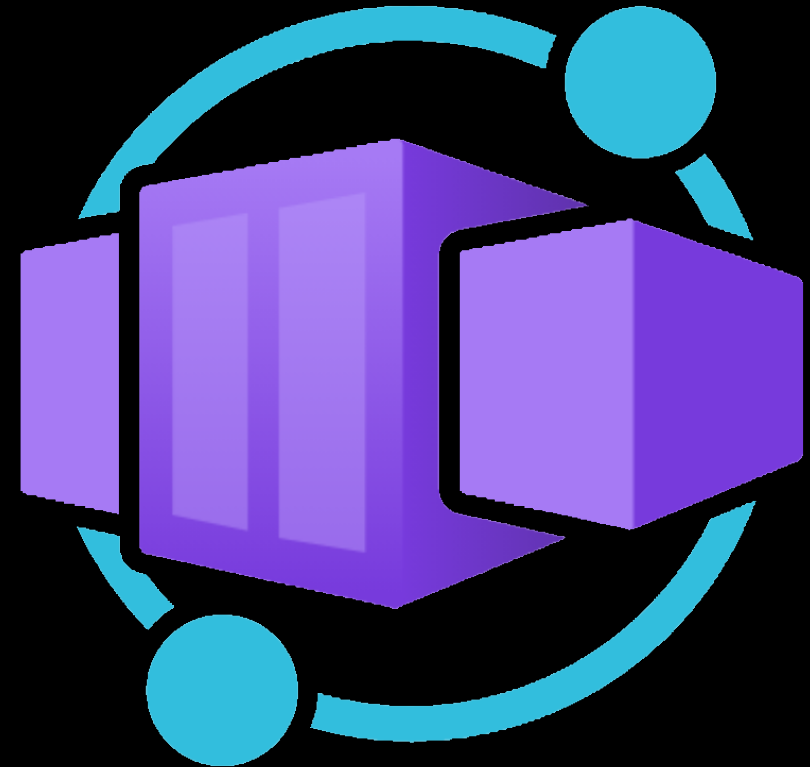


Container Apps deploy with YAML

```
type: Microsoft.App/containerApps
tags:
  env: production
properties:
  managedEnvironmentId: <env_id>
  configuration:
    activeRevisionsMode: Multiple
    ingress:
      external: true
      allowInsecure: false
      targetPort: 80
  template:
    revisionSuffix: myrevision
    containers:
      - image: nginx
        name: nginx
```



Houssem Dellai

Cloud Solution Architect at Microsoft

Creating Container Apps using Azure CLI - options

```
az containerapp create --name
    --resource-group
    [--allow-insecure {false, true}]
    [--args]
    [--bind]
    [--command]
    [--container-name]
    [--cpu]
    [--dal]
    [--dapr-app-id]
    [--dapr-app-port]
    [--dapr-app-protocol {grpc, http}]
    [--dapr-http-max-request-size]
    [--dapr-http-read-buffer-size]
    [--dapr-log-level {debug, error, info, warn}]
    [--enable-dapr {false, true}]
    [--env-vars]
    [--environment]
    [--environment-type {connected, managed}]
    [--exposed-port]
    [--image]
    [--ingress {external, internal}]
    [--max-replicas]
    [--memory]
    [--min-replicas]
    [--no-wait]
    [--registry-identity]
    [--registry-password]
    [--registry-server]
    [--registry-username]
    [--revision-suffix]
    [--revisions-mode {multiple, single}]
    [--scale-rule-auth]
    [--scale-rule-http-concurrency]
    [--scale-rule-metadata]
    [--scale-rule-name]
    [--scale-rule-type]
    [--secret-volume-mount]
    [--secrets]
    [--system-assigned]
    [--tags]
    [--target-port]
    [--termination-grace-period]
    [--transport {auto, http, http2, tcp}]
    [--user-assigned]
    [--workload-profile-name]
    [--yaml]
```

Creating Container App using YAML file




```
$ az containerapp create -n app  
-g rg --yaml app.yaml
```

```
type: Microsoft.App/containerApps  
tags:  
  env: production  
properties:  
  managedEnvironmentId: <env_id>  
  configuration:  
    activeRevisionsMode: Multiple  
    ingress:  
      external: true  
      allowInsecure: false  
      targetPort: 80  
  template:  
    revisionSuffix: myrevision  
    containers:  
      - image: nginx  
        name: nginx
```

```
$ kubectl apply -f deployment.yaml
```

Similar to deploying Kubernetes YAML manifest.

```
apiVersion: apps/v1  
kind: Deployment  
metadata:  
  name: webapp  
spec:  
  selector:  
    matchLabels:  
      app: webapp  
  replicas: 5  
  template:  
    spec:  
      containers:  
        - name: webapp  
          image: nginx  
          ports:  
            - containerPort: 80
```

<input checked="" type="checkbox"/>	Name ↑↓	Type ↑↓
<input type="checkbox"/>	 aca-environment	Container Apps Environment
<input checked="" type="checkbox"/>	 app-01	Container App
<input type="checkbox"/>	 workspace-rgacakxPp	Log Analytics workspace

Creating Container App using YAML file

```
$ az containerapp create -n app  
-g rg --yaml app.yaml
```

```
type: Microsoft.App/containerApps  
tags:  
  env: production  
properties:  
  managedEnvironmentId: <env_id>  
  configuration:  
    activeRevisionsMode: Multiple  
  ingress:  
    external: true  
    allowInsecure: false  
    targetPort: 80  
template:  
  revisionSuffix: myrevision  
  containers:  
    - image: nginx  
      name: nginx
```

```
$ kubectl apply -f deployment.yaml
```

Similar to deploying Kubernetes YAML manifest

```
apiVersion: apps/v1  
kind: Deployment  
metadata:  
  name: webapp  
spec:  
  selector:  
    matchLabels:  
      app: webapp  
  replicas: 5  
  template:  
    spec:  
      containers:  
        - name: webapp  
          image: nginx  
          ports:  
            - containerPort: 80
```

```
$ terraform apply -auto-approve
```

Similar to Terraform

```
resource "azurerm_container_app" "aca" {  
  name = "aca"  
  container_app_environment_id = var.id  
  resource_group_name = rg.name  
  revision_mode = "Single"  
  template {  
    container {  
      name = nginx  
      image = nginx  
    }  
  }  
  ingress {  
    allow_insecure_connections = false  
    external_enabled = true  
    target_port = 80  
    transport = "auto"  
  }  
}
```

Creating ACA App using YAML file

```
location: canadacentral
name: mycontainerapp
resourceGroup: myresourcegroup
type: Microsoft.App/containerApps
tags:
  tagname: value
properties:
  managedEnvironmentId: env_id
  configuration:
    activeRevisionsMode: Multiple
    secrets:
      - name: mysecret
        value: thisismysecret
      - name: myregistrypassword
        value: I<3containerapps
  ingress:
    external: true
    allowInsecure: false
    targetPort: 80
    traffic:
      - latestRevision: true
        weight: 100
    transport: Auto
```

```
registries:
  - passwordSecretRef: pwd
    server: acr.azurecr.io
    username: myregistry
dapr:
  appId: mycontainerapp
  appPort: 80
  appProtocol: http
  enabled: true
template:
  revisionSuffix: myrevision
  containers:
    - image: nginx
      name: nginx
      env:
        - name: HTTP_PORT
          value: 80
        - name: secret_name
          secretRef: mysecret
      command:
        - npm
        - start
      resources:
```

```
probes:
  - type: liveness
    httpGet:
      path: "/health"
      port: 8080
      httpHeaders:
        - name: "Custom-Header"
          value: "liveness probe"
    initialDelaySeconds: 7
    periodSeconds: 3
  - type: readiness
    tcpSocket:
      port: 8081
    initialDelaySeconds: 10
    periodSeconds: 3
  - type: startup
    httpGet:
      path: "/startup"
      port: 8080
      httpHeaders:
        - name: "Custom-Header"
          value: "startup probe"
    initialDelaySeconds: 3
    periodSeconds: 3
volumeMounts:
  - mountPath: /myempty
    volumeName: myempty
  - mountPath: /myfiles
```