

## AZ-204 – Develop Azure Compute Solutions → Implement Azure App Service Web Apps →

### 1.2.3 Deploy Code and Containerized Solutions

1. What deployment options exist for App Service (code and container)?
2. How do you deploy a ZIP package via Azure CLI?
3. How do you configure GitHub Actions deployment?
4. How do you deploy a containerized app to App Service?
5. How do you configure deployment slots and swap?
6. What are best practices for zero-downtime deployments?

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#### 1. What deployment options exist for App Service (code and container)?

- **Code:** ZIP Deploy, GitHub Actions, Azure DevOps, FTP, Local Git
- **Container:** Docker Hub, Azure Container Registry (ACR), custom registry  
App type determines supported methods.

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#### 2. How do you deploy a ZIP package via Azure CLI?

```
az webapp deployment source config-zip \  
  --resource-group <rg> \  
  --name <app> \  
  --src <path-to-zip>
```

Used for direct app code deployment.

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#### 3. How do you configure GitHub Actions deployment?

```
az webapp deployment github-actions add \  
  --repo <user/repo> \  
  --branch main \  
  --name <app> \  
  --resource-group <rg> \  
  --login-with-github
```

Generates CI/CD workflow for App Service.

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#### 4. How do you deploy a containerized app to App Service?

```
az webapp create \  
  --resource-group <rg> \  
  --plan <plan> \  
  --name <app> \  
  --deployment-container-image-name <acr-name>.azurecr.io/app:tag
```

Ensure the Web App uses a Linux plan and has AcrPull access.

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#### 5. How do you configure deployment slots and swap?

- Create slot:  
az webapp deployment slot create --name <app> --resource-group <rg> --slot staging
- Swap slots:  
az webapp deployment slot swap --name <app> --resource-group <rg> --slot staging

Slots isolate staging, testing, and production deployments.

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#### 6. What are best practices for zero-downtime deployments?

- Use **deployment slots**
- Run **warm-up tests** before slot swap
- Enable **auto-swap with health checks**
- Avoid in-place updates on production slot