Develop Azure Compute Solutions
 └─ **1.2 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>
```

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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