

Configuring CodeDeploy using The AppSpec File



Configuration File

Defines the parameters to be used during a CodeDeploy deployment.



EC2

For EC2 and on-premises systems, YAML only.



Lambda

YAML and JSON supported.
File structure depends on whether you are deploying to Lambda or EC2

EC2 AppSpec File Structure



version

RESERVED FOR FUTURE USE

Currently the allowed value is 0.0.



files

CONFIGURATION FILES, PACKAGES

The location of any application files that need to be copied and where they should be copied to.



OS

OPERATING SYSTEM VERSION

The Operating System version you are using, e.g. linux, windows



hooks

LIFECYCLE EVENT HOOKS

Scripts which need to run at set points in the deployment lifecycle. Hooks have a very specific run order.

Scripts You Might Run During A Deployment

1

Uzip Files

Unzip application files prior to deployment.

2

Run Tests

Run functional tests on a newly deployed application.

3

Deal With Load Balancing

De-register and re-register instances with a load balancer.



Example appspec.yml

```
version: 0.0
```

```
os: linux
```

← **Operating system**

```
files:
```

- source: Config/config.txt
destination: /webapps/Config
- source: Source
destination: /webapps/myApp

← **Files you want to copy**

```
hooks:
```

```
BeforeInstall:
```

- location: Scripts/UnzipResourceBundle.sh
- location: Scripts/UnzipDataBundle.sh

```
AfterInstall:
```

- location: Scripts/RunResourceTests.sh
timeout: 180

```
ApplicationStart:
```

- location: Scripts/
RunFunctionalTests.sh
timeout: 3600

```
ValidateService:
```

- location: Scripts/MonitorService.sh
timeout: 3600
runas: codedeployuser

→ **Scripts you want to run during the deployment**

TYPICAL FOLDER SETUP:

appspec.yml
/Scripts
/Config
/Source

The **appspec.yml** must be placed in the **root** of the directory of your Revision, otherwise the deployment will fail.

Example appspec.yml For EC2 Deployments

```
version: 0.0
os: linux
files:
  - source: Config/config.txt
    destination: /webapps/Config
  - source: Source
    destination: /webapps/myApp
hooks:
  BeforeInstall:
    - location: Scripts/UnzipResourceBundle.sh
    - location: Scripts/UnzipDataBundle.sh
  AfterInstall:
    - location: Scripts/RunResourceTests.sh
      timeout: 180
  ApplicationStart:
    - location: Scripts/
      RunFunctionalTests.sh
      timeout: 3600
  ValidateService:
    - location: Scripts/MonitorService.sh
      timeout: 3600
      runas: codedeployuser
```

**Reference the correct folders
in your files and hooks section**



Exam Tips



Configuration File

Defines the parameters to be used by CodeDeploy e.g. OS, files, hooks.



appspec.yml

Should be saved to the root of your revision.



Hooks

Lifecycle event hooks have a very specific run order.