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Deployment 1  
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## Url-shortener

In this deployment we went through several steps to create an app using jenkins.

- 1) The first step in this pipeline was to create an Ubuntu EC2 on AWS.
- 2) When creating the Ubuntu EC2 make sure to have ssh port 22 open and require your IP to ssh in. Also have ports 80 and 8080 open.
- 3) After the EC2 is created you ssh into your ubuntu terminal and run the commands that download jenkins.
- 4) After you have installed jenkins you then install your virtual environment. In this deployment we installed python3-pip and python3-10-venv.
- 5) Then you fork the repo that was provided from github and then create an access token. You go to developer settings and select personal access token and create a new token.
- 6) In the settings for the access token make sure to select the scopes repo and admin:repo\_hook.
- 7) Then to log into jenkins you type in your IP:8080.
- 8) Once you are logged into jenkins you select create new item and create a multi-branch pipeline. Enter a display name and brief description.
- 9) Then after this add a branch source by selecting add source and clicking on github.
- 10) After clicking on github you then add jenkins. Under username enter your github username and then under password you enter the personal access token we created in github.
- 11) In this process it also allows you to enter your github repo URL to validate.
- 12) Then you want to make sure that it says jenkinsfile under build configuration.
- 13) After completing these steps you want to git clone your repo into your virtual machine.
- 14) Then you can zip all the files from the repo in your terminal.
- 15) After zipping the files you want to create an elastic beanstalk application in AWS.
- 16) When you click on create application you then have to make sure to have specific configurations such as
  - Application name: url-shortner
  - Environment name: Urlshortner-env
  - Platform: Python
  - Platform branch: 3.8
  - Platform version: 3.3.16
- 17) Then after this make sure to upload your code which would be the zip file you created in your terminal.
- 18) Then after this you press create and you will see the environment being created. Once its created you are able to click on the URL created and this takes you to the URL-shortener app.

Ways to improve:

- 1) You can use automation and create scripts that run to make your life easier and reduce the amount of steps it takes to create the application.