

### The Process:

1. Initiate Ubuntu ec2
  - a. Update machine, install java, pip, and venv
  - b. Get the pkg from jenkins and the add the key to sources list
2. Update machine with dependencies
3. Initialize and configure jenkins
4. GitHub
  - a. Get the PAT (personal access token) with proper configs
    - i. repo(all)
    - ii. repo\_hook(all)
  - b. Fork and download repository
    - i. Compress the repository and all the necessary files
5. Create multibranch build
  - a. Configure and link github repository
  - b. Scan repository to ensure good connection
6. Create new environment in AWS Elastic Beanstalk
  - a. Configure environment
  - b. Upload zip file
  - c. Ensure application health

### Improvements and Issues:

I would recommend the documentation being updated, because I had to go and get a different distribution to set up on my ec2. I think that it is recommended to make a script ready to go to set up jenkins if an instance with the installation is terminated, and to also make sure to have all things set up properly the first time. I do think that understanding the pipeline of configuration was better, but knowing what was going on with all the moving parts was still a little hazy.