DevOps Class 10 Out-line

Meetup 10: Configuration Management

- **0:00 - 0:15:** Recap of previous meetup
- **0:15 - 0:45:** What is Configuration Management?
    - Benefits of configuration management
- **0:45 - 1:00:** Overview of Configuration Management tools
    - Ansible
- **1:00 - 1:15:** Break
- **1:15 - 1:45:** Hands-on demonstration with Ansible
    - Writing playbooks
    - Managing configurations
- **END PROJECT.**

end project
step 1

create a Github repository
clone it to your local machine and work from there
create a docker image from a docker file some sort of web app using apache2 or nginx.
create a kubernets cluster
create a name space:
dev
monitoring
argocd

in the dev namespace deploy Jenkins and create a load balancer service for it
in argoCD name space deploy argoCD and create a load balancer service for it
in monitoring name space, deploy promethues and grafana

using jenkins create a pipeline so it will:
clone the remote repo
create a new image
test the new code
push to docker hub

this will include creating an k8s agent, env of hithub cred and dockerhub cred, dont forget docker and k8s plugin

using argoCD and a manifest file
create an application deployment that will use webhooks to trigger to pull new images from dockerhub and sync them

use prometius and grafana to monitor and create alerts for the deployments

create a terraform file to create a load balancer and auto scaling, ec2