Axial DevOps
Interview Test (2.5H)

Summary

1. Ansible + Docker
2. RabbitMQ & Redis
3. Sensu

Ansible + Docker

Configuration

Once you have given your SSH public key to DevOps, you will receive access to 3 test servers. Create a Github repo to store all your code. Use Ansible to update the system, install any dependencies, and install/configure Docker on all 3 hosts.

Hosts:

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devops-node-0.axialmarket.com

devops-node1.axialmarket.com

devops-node2.axialmarket.com

[

Bonus Points:

- Create Ansible roles

RabbitMQ & Redis

Containers

Setup RabbitMQ and Redis using Docker and make sure all 3 nodes are able to hit the Rabbit and Redis server remotely.

Bonus Points:

- Create docker swarm cluster using all 3 nodes and deploy RabbitMQ/Redis using docker swarm

Resources:

- https://hub.docker.com/_/rabbitmq/
- https://hub.docker.com/_/redis/

Sensu

Monitoring

Sensu is an open source monitoring application that allows you to monitor any number of servers. It offers many community written plugins like monitoring resources on a server and particular application. Sensu also uses RabbitMQ and Redis as back-end. For this task, install Sensu on one server and monitor all 3 servers for cpu, disk, and memory. You must use Ansible to install and configure Sensu. Make sure you are using RabbitMQ and Redis in docker. Also install a dashboard for Sensu to show us the status of all 3 servers/checks.

Bonus Points:

- Configure Sensu using Ansible (Sensu does not need to be running in docker)
- Set up monitoring to verify Docker is running on all 3 hosts
- Setup Uchiwa in Docker
- Setup Nginx proxy for Uchiwa

Resources:

- https://sensuapp.org/
- https://github.com/sensu-plugins
- https://uchiwa.io/#/
- Ansible Documentation

Presentation

After the test is done, you will go over what you have done with the Axial DevOps team and give them access to your repo.