DevOps Interview Assignment

Instructions

1. Attempt Mandatory Assignment, max time to complete 40 mins
2. Attempt any one of the Assignment 1 **or** 2, max time to complete 1 hour
3. **And** Attempt Assignment 3, max time to complete 2 hour
4. You are free to choose whatever scripting / library unless mention
5. Assume realistic scenario / information needed but not provided to complete assignment
6. Assumptions taken needs to be explicitly mention in script via code comments

Mandatory Assignment - Powershell / Python / Bash automation script

Create a script to automate fileops on 4 remote servers. The task will entail

1. Connecting to servers (IP 10.20.12.08, 10.20.12.12, 10.20.12.21, 10.20.12.22) using Username: admin Password: p@ssW0rd
2. Search for a file called reaper which can be running or dormant
3. Log the current location and PID of the file.
4. Delete this file
5. Replace with another file reaper with content “Deleted”
6. Log the current operations execution time.

Assignment 1 - Nginx / NodeJS or IIS / ASP.NET

Assignment

Create a script to build and deploy a NodeJS/ ASP.NET Web Application on ‘Web1’ server with IP 10.20.12.45. Username: admin Password: p@ssW0rd. Deployment needs to create the Nginx/ IIS web application if it does not exist. Else you need to shutdown the web application before deployment and restart it after the deployment.

OR

Assignment 2 - Docker

Assignment

Create a bash script to create a docker container which will host a static website. Container needs to be portable and needs to run on port 80. Publish the newly created container to the private repository hosted on “registry.webuy.com”. Assume anonymous authentication to the docker registry. Also save the newly created docker image as tar ball file.

AND

Assignment 3 - AWS Cloud / Docker

Assignment
Create a script would run docker container image registry.webuy.com/mywebserver on port 5000. Assuming this docker container is running on two AWS EC2 instances, create a cloud formation template, which will create a AWS ELB which will load balance traffic to both the instance.