Ansible

Automation tasks using Ansible

1. Write Ansible Playbooks for below:

- Installation and configuration of httpd and firewalld on Webserver Host Group Ansible in Ansible `inventory` file.
- Configure the httpd daemon to run on port 8080 instead of port 80.
- Setup firewall rules using firewalld ansible module to allow other nodes to communicate with httpd webserver nodes only on Port 8080 using a similar csv file as below.

```
# firewall_list.csv
managed-node-01,8080
managed-node-01,80
managed-node-02,8080
managed-node-02,80
```

- Write a handler task to run when there is a change in firewalld rules that will restart the firewalld daemon.
- Start the httpd, firewalld daemon using service module.
- Create a Jinja2 template for index.html file to be shown when a user tries to access content of a particular server. The content should display the specific webserver's OS configurations/Server IP etc.
- Validate the access to the webservers from a specific host.

Acceptance Criteria:

- Check all services are installed and configured properly.
- Use curl request to test the content of index.html

2. Convert above steps from Ansible Playbook into Ansible Roles Directory Structure.