

ansible-playbook -i <inventory> playbook.yml

```

---
- hosts: webserv
  gather_facts: True
  remote_user: root

  vars:
    http_port: 80
    max_clients: 200

  tasks:
    - name: latest apache
      yum:
        name: httpd
        state: latest
    - name: write config file
      template:
        src: /srv/httpd.j2
        dest: /etc/httpd.conf
      notify:
        - restart apache
    - name: apache is running
      service:
        name: httpd
        state: started

  handlers:
    - name: restart apache
      service:
        name: httpd
        state: restarted
  
```

Inventory Files (typically named hosts)

<code>/etc/ansible/hosts</code>	Default location for host file
<code>-i <path></code>	Use to define location for inventory when running at CLI
<code>#example host file</code>	
<code>ungrouped.example.com</code>	<code>#an ungrouped host</code>
<code>[webserv]</code>	<code>#a group called webserv</code>
<code>alta3.example.com</code>	<code>ansible_host = 10.0.0.5 #ssh to 10.0.0.5</code>
<code>github.example.com</code>	<code>ansible_ssh_user = indy #ssh as user indy</code>
<code>[clouds]</code>	
<code>cloud.example.com</code>	<code>fileuser = tom #fileuser is a host variable</code>
<code>[phoenix]</code>	
<code>alta3.example.com</code>	<code>#host (DNS will resolve)</code>
<code>telecom.example.com</code>	<code>#host (DNS will resolve)</code>
<code>[dev1:children]</code>	<code>#dev1 is a group containing</code>
<code>webserv</code>	<code>#all hosts in group webserv</code>
<code>clouds</code>	<code>#all hosts in group clouds</code>

Playbook with Roles

```

---
- hosts: all

  roles:
    - nginx
    - wordpress
    - mysql
    - php
    - postfix

- hosts: webserv

  vars:
    - zvar: True

  roles:
    - cert-update
    - sec-patch
  
```

Ansible Host Patterns (as described in playbooks)

<code>all</code>	All hosts in inventory
<code>*</code>	All hosts in inventory
<code>ungrouped</code>	All hosts in inventory not appearing within a group
<code>10.0.0.*</code>	All hosts with an IP starting 10.0.0.*
<code>webserv</code>	The group webserv
<code>webserv:!phoenix</code>	Only hosts in webserv, not also in group phoenix
<code>webserv:&phoenix</code>	Only hosts in the groups webserv and phoenix

Error Handling

```

block:
  # code will execute
rescue:
  # on an error
  # this code executes
always:
  # always executes
  
```