

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)

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

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)

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

Error Handling

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