

# Ansible commands

```
nipun@LAPTOP-1HNTD447: ~  
nipun@LAPTOP-1HNTD447:~$ ansible all -m ping --ask-pass  
SSH password:  
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'  
nipun@LAPTOP-1HNTD447:~$ bash --version  
GNU bash, version 5.0.17(1)-release (x86_64-pc-linux-gnu)  
Copyright (C) 2019 Free Software Foundation, Inc.  
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>  
  
This is free software; you are free to change and redistribute it.  
There is NO WARRANTY, to the extent permitted by law.  
nipun@LAPTOP-1HNTD447:~$ ansible --version  
ansible [core 2.12.1]  
  config file = /etc/ansible/ansible.cfg  
  configured module search path = ['/home/nipun/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']  
  ansible python module location = /usr/lib/python3/dist-packages/ansible  
  ansible collection location = /home/nipun/.ansible/collections:/usr/share/ansible/collections  
  executable location = /usr/bin/ansible  
  python version = 3.8.10 (default, Nov 26 2021, 20:14:08) [GCC 9.3.0]  
  jinja version = 2.10.1  
  libyaml = True  
nipun@LAPTOP-1HNTD447:~$
```

# Creating a role using Ansible-galaxy

```
nipun@LAPTOP-1HNTD447: ~/nipunrole  
nipun@LAPTOP-1HNTD447:~$ ansible-galaxy init --force --offline nipunrole  
- Role nipunrole was created successfully  
nipun@LAPTOP-1HNTD447:~$ tree nipunrole  
nipunrole  
├── README.md  
├── defaults  
│   └── main.yml  
├── files  
├── handlers  
│   └── main.yml  
├── meta  
│   └── main.yml  
├── tasks  
│   └── main.yml  
├── templates  
├── tests  
│   ├── inventory  
│   └── test.yml  
└── vars  
    └── main.yml  
  
8 directories, 8 files  
nipun@LAPTOP-1HNTD447:~$ cd nipunrole  
nipun@LAPTOP-1HNTD447:~/nipunrole$ ls  
README.md  defaults  files  handlers  meta  tasks  templates  tests  vars  
nipun@LAPTOP-1HNTD447:~/nipunrole$
```

# Utilizing roles in the playbook

```
nipun@LAPTOP-1HNTD447: ~/nipun_playbook/install-tomcat
nipun@LAPTOP-1HNTD447:~/nipun_playbook$ ls
install-tomcat  nipun_orchestrate.yml  start-tomcat
nipun@LAPTOP-1HNTD447:~/nipun_playbook$ cat nipun_orchestrate.yml
---
- hosts: tomcat-node
  roles:
    - {role: install-tomcat}
    - {role: start-tomcat}
...
nipun@LAPTOP-1HNTD447:~/nipun_playbook$ cd install-tomcat
nipun@LAPTOP-1HNTD447:~/nipun_playbook/install-tomcat$ ls
README.md  defaults  files  handlers  meta  tasks  templates  tests  vars
nipun@LAPTOP-1HNTD447:~/nipun_playbook/install-tomcat$ cat tasks/main.yml
---
# Install nipun artifacts
-
  block:
    - name: Install Tomcat Artifacts
      action: >
        yum name = "demo-tomcat-1" state = present
      register: output

  always:
    - debug:
        msg:
          - Install Tomcat artifacts tasks ended with message: "{{ output }}"
          - Installed Tomcat artifacts: "{{ output.changed }}"

nipun@LAPTOP-1HNTD447:~/nipun_playbook/install-tomcat$
```

```
nipun@LAPTOP-1HNTD447: ~/nipun_playbook
- Installed Tomcat artifacts: "{{ output.changed }}"

nipun@LAPTOP-1HNTD447:~/nipun_playbook/install-tomcat$ cd ..
nipun@LAPTOP-1HNTD447:~/nipun_playbook$ cat start-tomcat/tasks/main.yml
---
#Start Tomcat

-
  block:
    - name: Start Tomcat
      command: "<path of tomcat>/bin/startup.sh"
      register: output
      become: true

  always:
    - debug:
        msg:
          - "Start Tomcat task ended with message: {{output}}"
          - "Tomcat started - {{output.changed}}"
    ...

nipun@LAPTOP-1HNTD447:~/nipun_playbook$ sudo ansible-playbook -i hosts nipun_orchestrate.yml -vvv
[sudo] password for nipun:
ansible-playbook [core 2.11.7]
  config file = /etc/ansible/ansible.cfg
  configured module search path = ['/root/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  ansible collection location = /root/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible-playbook
  python version = 3.8.10 (default, Jun  2 2021, 10:49:15) [GCC 9.4.0]
  jinja version = 2.10.1

libyaml = True
Using /etc/ansible/ansible.cfg as config file
host list declined parsing /home/nipun/nipun_playbook/hosts as it did not pass its verify_file() method
Skipping due to inventory source not existing or not being readable by the current user
script declined parsing /home/nipun/nipun_playbook/hosts as it did not pass its verify_file() method
auto declined parsing /home/nipun/nipun_playbook/hosts as it did not pass its verify_file() method
Skipping due to inventory source not existing or not being readable by the current user
yaml declined parsing /home/nipun/nipun_playbook/hosts as it did not pass its verify_file() method
Skipping due to inventory source not existing or not being readable by the current user
ini declined parsing /home/nipun/nipun_playbook/hosts as it did not pass its verify_file() method
Skipping due to inventory source not existing or not being readable by the current user
toml declined parsing /home/nipun/nipun_playbook/hosts as it did not pass its verify_file() method
[WARNING]: Unable to parse /home/nipun/nipun_playbook/hosts as an inventory source
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'
ERROR! this task 'yum' has extra params, which is only allowed in the following modules: include_tasks, ansible.legacy.add_host, ansible.builtin.meta, ansible.builtin.raw, include_role, ansible.legacy.script, ansible.legacy.raw, group_by, ansible.legacy.group_by, ansible.legacy.win_shell, ansible.builtin.include_role, ansible.builtin.set_fact, ansible.legacy.meta, ansible.builtin.group_by, ansible.legacy.include, win_command, shell, command, ansible.builtin.script, ansible.builtin.win_command, ansible.builtin.add_host, ansible.windows.win_shell, ansible.legacy.import_tasks, ansible.builtin.include_vars, ansible.builtin.import_role, include_vars, ansible.windows.win_command, ansible.builtin.win_shell, win_shell, ansible.builtin.shell, raw, ansible.legacy.win_command, ansible.legacy.set_fact, ansible.builtin.command, ansible.legacy.include_tasks, include, ansible.builtin.include_tasks, ansible.legacy.include_role, ansible.legacy.shell, ansible.builtin.import_tasks, import_role, meta, add_host, ansible.legacy.command, set_fact, ansible.legacy.include_vars, script, ansible.legacy.import_role, ansible.builtin.include, import_tasks

The error appears to be in '/home/nipun/nipun_playbook/install-tomcat/tasks/main.yml': line 5, column 9, but may be elsewhere in the file depending on the exact syntax problem.
```