

devops@ansible-controller:~\$ history

- 1 history
- 2 ansible --version
- 3 sudo apt-get update
- 4 sudo apt-get install software-properties-common
- 5 sudo apt-add-repository --yes --update ppa:ansible/ansible
- 6 sudo apt-get install ansible
- 7 history
- 8 cd /etc/ansible/
- 9 ls -l
- 10 cat hosts
- 11 cd
- 12 echo \$HOME
- 13 cd /home/devops
- 14 pwd
- 15 ls -l
- 16 cp -pr /etc/ansible/* /home/devops/
- 17 ls -l
- 18 cat ansible.cfg
- 19 ansible-config init --disabled > ansible.cfg
- 20 ls -l
- 21 cat ansible.cfg
- 22 clear
- 23 history
- 24 vi ansible.cfg
- 25 cp hosts myinv
- 26 cp hosts qainv
- 27 cp hosts prodinv
- 28 ls -l
- 29 vi myinv
- 30 ansible --inventory /home/devops/myinv -m ping -u devops --ask-pass
- 31 cat myinv
- 32 nsible --inventory /home/devops/myinv all -m ping -u devops --ask-pass
- 33 ansible --inventory /home/devops/myinv all -m ping -u devops --ask-pass
- 34 vi ansible.cfg
- 35 nano ansible.cfg
- 36 vi ansible.cfg
- 37 ansible --inventory /home/devops/myinv all -m ping -u devops --ask-pass
- 38 ansible --inventory /home/devops/myinv slave1 -m ping -u devops --ask-pass
- 39 nano ansible.cfg
- 40 ansible --inventory /home/devops/myinv slave1 -m ping -u devops --ask-pass
- 41 ansible --inventory /home/devops/myinv all -m ping -u devops --ask-pass
- 42 df -h
- 43 history

```
44 ansible --inventory /home/devops/myinv app -m shell -a "df -h /" -u devops --ask-pass
45 ansible --inventory /home/devops/myinv all -m shell -a "df -h /" -u devops --ask-pass
46 ansible --inventory /home/devops/myinv all -m shell -a "sudo apt update" -u devops
--ask-pass
47 history
48 clear
49 ls -l /etc/ansible
50 pwd
51 ls -l
52 ansible --inventory /home/devops/myinv all -m shell -a "java -version" -u devops
--ask-pass
53 ansible --inventory /home/devops/myinv all -m shell -a "java --version" -u devops
--ask-pass
54 jav --version
55 java --version
56 ansible --inventory /home/devops/myinv all -m shell -a "df -h /" -u devops --ask-pass
57 sudo add-apt-repository ppa:openjdk-r/ppa
58 sudo apt-get update
59 sudo apt-get install -y fontconfig openjdk-17-jre openjdk-17-jdk
60 cd /usr/lib/jvm/java-17-openjdk-amd64
61 ls -l
62 cd ..
63 cd
64 java --version
65 ansible --inventory /home/devops/myinv all -m shell -a "java --version" -u devops
--ask-pass
66 ansible ping -m all
67 ansible ping -m remote-vm1
68 ansible ping -m slave1
69 cat hosts
70 ansible ping -m 10.0.0.29
71 ansible --inventory /home/devops/myinv all -m ping -u devops --ask-pass
72 ansible doc-l
73 ansible doc -l
74 ansible-doc l-
75 ansible-doc -l
76 hjjjhdhd
77 clear
78 ansible-doc -l | grep file
79 ansible-doc ping
80 clear
81 history
82 history
83 ls -l
```

```
84 cat myinv
85 ansible --inventory /home/devops/myinv all -m copy -a "src=/home/devops/prodinv
dest=/home/devops" -u devops --ask-pass
86 ls -l
87 ansible --inventory /home/devops/myinv all -m file -a "path=/home/devops/naresh.txt
state=touch" -u devops --ask-pass
88 clear
89 ls -l
90 cat myinv
91 clear
92 vi plyabook.yaml
93 ansible-playbook --inventory /home/devops/myinv plyabook.yaml --syntax-check
94 vi plyabook.yaml
95 echo "set paste" > $HOME/.vimrc
96 vi plyabook.yaml
97 echo "set paste" > $HOME/.vimrc
98 ansible-playbook --inventory /home/devops/myinv plyabook.yaml --syntax-check
99 vi plyabook.yaml
100 echo "set paste" > $HOME/.vimrc
101 ansible-playbook --inventory /home/devops/myinv plyabook.yaml --syntax-check
102 vi plyabook.yaml
103 ansible-playbook --inventory /home/devops/myinv plyabook.yaml --syntax-check
104 vi plyabook.yaml
105 ansible-playbook --inventory /home/devops/myinv plyabook.yaml --syntax-check
106 vi plyabook.yaml
107 ansible-playbook --inventory /home/devops/myinv plyabook.yaml --syntax-check
108 history
109 clear
110 history
111 ansible-playbook --inventory /home/devops/myinv plyabook.yaml --syntax-check
112 ansible-playbook --inventory /home/devops/myinv plyabook.yaml -u devops --ask-pass
113 vi plyabook.yaml
114 ansible-playbook --inventory /home/devops/myinv plyabook.yaml --syntax-check
115 ansible-playbook --inventory /home/devops/myinv plyabook.yaml -u devops --ask-pass
116 vi plyabook.yaml
117 ansible-playbook --inventory /home/devops/myinv plyabook.yaml -u devops --ask-pass
118 vi plyabook.yaml
119 ansible-playbook --inventory /home/devops/myinv plyabook.yaml --syntax-check
120 ansible-playbook --inventory /home/devops/myinv plyabook.yaml -u devops --ask-pass
121 clear
122 vi plyabook.yaml
123 ls -l
124 vi plyabook.yaml
125 ansible-playbook --inventory /home/devops/myinv plyabook.yaml -u devops --ask-pass
```

```
126 ls -l
127 vi plyabook.yaml
128 ansible-playbook --inventory /home/devops/myinv plyabook.yaml -u devops --ask-pass
129 history
130 clear
131 ansible-playbook --inventory /home/devops/myinv plyabook.yaml -u devops --ask-pass
132 clear
133 history
134 ls -l /tmp
135 ls -l
136 ansible-playbook --inventory /home/devops/myinv plyabook.yaml -u devops --ask-pass
137 vi apache.yaml
138 ansible-playbook --inventory /home/devops/myinv apache.yaml -u devops --ask-pass
139 apache2 -v
140 ps -ef|grep apache2
141 ls -l /tmp
142 ansible -i /home/devops/myinv all -m setup -u devops -k
143 history
```

devops@ansible-controller:~\$ vi cond.yaml

devops@ansible-controller:~\$ ansible-playbook --inventory /home/devops/myinv cond.yaml -u devops --ask-pass

SSH password:

PLAY [cond]

TASK [Gathering Facts]

ok: [10.0.0.38]

ok: [10.0.0.29]

TASK [install a package on Ubuntu]

ok: [10.0.0.38]

ok: [10.0.0.29]

TASK [install a package on Centos]

skipping: [10.0.0.29]

skipping: [10.0.0.38]

PLAY RECAP

10.0.0.29 : ok=2 changed=0 unreachable=0 failed=0 skipped=1 rescued=0
ignored=0
10.0.0.38 : ok=2 changed=0 unreachable=0 failed=0 skipped=1 rescued=0
ignored=0

devops@ansible-controller:~\$

```
- name: "ansible variables"
  hosts: app
  become: yes
  become_user: root
  vars:
    pkgname: git
  tasks:
    - name: "install a {{ pkgname }} on ubuntu"
      when: ansible_distribution == "Ubuntu"
      apt:
        update_cache: true
        name: "{{ pkgname }}"
        state: present
    - name: "install a {{ pkgname }} on CentOS"
      when: ansible_distribution == "CentOS"
      yum:
        update_cache: true
        name: "{{ pkgname }}"
        state: present
```

```
- name: cond
  hosts: all
  become: yes
  become_user: root
  vars:
    pckgname: vim
  tasks:
    - name: "install a {{pckgname}} on Ubuntu"
      when: ansible_distribution == "Ubuntu"
      apt:
        update_cache: yes
        name: "{{pckgname}}"
        state: present
    - name: "install a {{pckgname}} on Centos"
      when: ansible_distribution == "Centos"
      yum:
        update_cache: yes
        name: "{{pckgname}}"
```

```
state: present
```

```
devops@ansible-controller:~$ ansible-playbook --inventory /home/devops/myinv cond.yaml -u
devops --ask-pass
SSH password:
```

```
PLAY [cond]
```

```
*****
```

```
TASK [Gathering Facts]
```

```
*****
```

```
ok: [10.0.0.38]
```

```
ok: [10.0.0.29]
```

```
TASK [install a vim on Ubuntu]
```

```
*****
```

```
ok: [10.0.0.29]
```

```
ok: [10.0.0.38]
```

```
TASK [install a vim on Centos]
```

```
*****
```

```
skipping: [10.0.0.29]
```

```
skipping: [10.0.0.38]
```

```
PLAY RECAP
```

```
*****
```

```
10.0.0.29      : ok=2   changed=0   unreachable=0   failed=0   skipped=1   rescued=0
ignored=0
```

```
10.0.0.38      : ok=2   changed=0   unreachable=0   failed=0   skipped=1   rescued=0
ignored=0
```

```
devops@ansible-controller:~$ ansible-playbook --inventory /home/devops/myinv cond.yaml
--extra-vars "pckgname=git" -u devops --ask-pass
SSH password:
```

```
PLAY [cond]
```

```
*****
```

```
TASK [Gathering Facts]
```

```
*****
```

```
ok: [10.0.0.38]
```

```
ok: [10.0.0.29]
```

TASK [install a git on Ubuntu]

ok: [10.0.0.29]

ok: [10.0.0.38]

TASK [install a git on Centos]

skipping: [10.0.0.29]

skipping: [10.0.0.38]

PLAY RECAP

10.0.0.29	: ok=2	changed=0	unreachable=0	failed=0	skipped=1	rescued=0
ignored=0						
10.0.0.38	: ok=2	changed=0	unreachable=0	failed=0	skipped=1	rescued=0
ignored=0						

devops@ansible-controller:~\$ vi task1.yaml

```
- name: "task-1 on Ubuntu"
  apt:
    update_cache: yes
    name: git
    state: present
- name: "create a file"
  file:
    path: /tmp/deepak1.txt
    state: touch
```

devops@ansible-controller:~\$ vi task2.yaml

```
- name: "task-2 on CentOS"
  yum:
    update_cache: yes
    name: git
    state: present
- name: "create a file"
  file:
    path: /tmp/deepak2.txt
    state: touch
```

devops@ansible-controller:~\$ vi resultt.yaml

```
- name: call task from another yaml file
  hosts: all
  become: yes
  become_user: root
  tasks:
    - name: "call task from ubuntu task1.yaml"
      when: ansible_distribution == "Ubuntu"
      include_tasks: /home/devops/task1.yaml
    - name: "call task from centos task2.yaml"
      when: ansible_distribution == "Centos"
      include_tasks: /home/devops/task2.yaml
```

devops@ansible-controller:~\$ ansible-playbook -i myinv result.yaml -u devops -k
SSH password:

PLAY [call task from another yaml file]

TASK [Gathering Facts]

*

ok: [10.0.0.38]

ok: [10.0.0.29]

TASK [call task from ubuntu]

included: /home/devops/task1.yaml for 10.0.0.29, 10.0.0.38

TASK [task-1 on Ubuntu]

ok: [10.0.0.38]

ok: [10.0.0.29]

TASK [create a file]

changed: [10.0.0.38]

changed: [10.0.0.29]

TASK [call task from centos]

skipping: [10.0.0.29]

skipping: [10.0.0.38]

PLAY RECAP

10.0.0.29 : ok=4 changed=1 unreachable=0 failed=0 skipped=1 rescued=0

ignored=0

10.0.0.38 : ok=4 changed=1 unreachable=0 failed=0 skipped=1 rescued=0

ignored=0

-----Ansible Roles-----

mkdir roles-example

237 ll

238 ls -l

239 cd roles_example

240 cd roles-example

241 ls -l

242 mkdir install-git

243 mkdir install-httpd

244 mkdir install-telnet

245 ls -l

246 mkdir install-git/tasks

247 mkdir install-httpd/tasks

248 mkdir install-telnet/tasks

249 cd ..

250 tree roles-example/

251 pwd

252 cd roles-example/

253 ll

254 mkdir roles

255 mv install-* roles/

256 ll

257 cd ..

258 ls -l

259 tree roles-example/

260 ansible-playbook -i ../hosts install-packages.yml

261 cd roles-example/

262 cd ..

```
263 vi install-packages.yml
264 ansible-playbook -i ../hosts install-packages.yml
265 vi install-packages.yml
266 ansible-playbook -i ../hosts install-packages.yml
267 ansible-playbook --inventory /home/devops/myinv install-packages.yaml -u devops
--ask-pass
268 ansible-playbook --inventory /home/devops/roles-example install-packages.yaml -u
devops --ask-pass
269 ansible-playbook --inventory /home/devops/roles-example/roles install-packages.yaml -u
devops --ask-pass
270 cd roles-example/
271 cd task
272 cd roles
273 cd tasks
274 ls -l
275 cd install-git
276 ls -l
277 cd tasks/
278 vi main.yml
```

```
- name: install git
  package:
    name: git
    state: present
```

```
279 cd ..
280 cd install-httpd
281 cd tasks/
282 vi main.yml
```

```
- name: install httpd
  package:
    name: apache2
    state: present
```

```
283 cd ..
284 cd install-telnet
285 cd tasks
286 vi main.yml
```

```
- name: install telnet
  package:
    name: telnet
    state: present
```

```
287 cd
```

```
288 ansible-playbook --inventory /home/devops/roles-example/roles install-packages.yml -u  
devops --ask-pass
```

```
289 ansible-playbook -i ../hosts install-packages.yml
```

```
290 tree roles-example
```

```
291 cd roles-example/
```

```
292 pwd
```

```
293 ls -l
```

```
294 vi install-pkg.yml
```

```
295 ansible-playbook --inventory /home/devops/roles-example install-pkg.yml -u devops  
--ask-pass
```

```
296 cd roles/
```

```
297 cd task
```

```
298 ls -l
```

```
299 cd install-git
```

```
300 rm main.yml
```

```
301 ls -l
```

```
302 cd task
```

```
303 rm main.yml
```

```
304 ls -l
```

```
305 cd tasks
```

```
306 rm main.yml
```

```
307 vi main.yml
```

```
- name: install git  
  package:  
    name: git  
    state: present
```

```
308 cd ..
```

```
309 cd install-httpd
```

```
310 cd tasks
```

```
311 rm main.yml
```

```
312 vi main.yml
```

```
- name: install httpd  
  package:  
    name: apache2  
    state: present
```

```
313 cd ..
```

```
314 cd install-telnet
```

```
315 cd tasks
```

```
316 rm main.yml
```

```
317 vi main.yml
```

```
- name: install telnet
```

```
package:
  name: telnet
  state: present
```

```
318 cd
319 cd roles-example/
320 tree roles-example
321 tree roles-example/
322 cd
323 tree roles-example/
324 cd roles-example/
325 ls -l
326 rm install-pkg.yml
327 vi install-pkg.yml
```

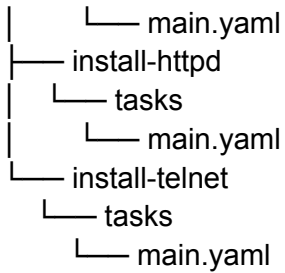
```
- name: install all required packages
  hosts: all
  gather_facts: no
  roles:
    - install-git
    - install-httpd
    - install-telnet
```

```
328 ansible-playbook --inventory /home/devops/roles-example install-pkg.yml -u devops
--ask-pass
329 vi install-pkg.yml
330 ansible-playbook --inventory /home/devops/roles-example install-pkg.yml -u devops
--ask-pass
331 vi install-pkg.yml
332 ansible-playbook -i ../hosts install-pkg.yml
333 ansible-playbook -i ../hosts install-pkg.yml -u devops --ask-pass
334 vi install-pkg.yml
335 ansible-playbook -i ../hosts install-pkg.yml -u devops --ask-pass
336 clear
337 history
338 ansible-playbook -i ../hosts install-pkg.yml -u devops --ask-pass
339 vi install-pkg.yml
340 cd roles-example/
341 ansible-playbook -i ../hosts install-pkg.yml -u devops --ask-pass
342 ls -l
343 cd roles/
344 ls -l
345 cd install-git
346 ls -l
```

```
347 cd tasks/
348 ls -l
349 cd
350 cd roles-example/
351 ansible-playbook -i ../hosts install-pkg.yaml -u devops --ask-pass
352 ansible-playbook --inventory /home/devops/roles-example install-pkg.yaml -u devops
--ask-pass
353 ansible-playbook -i ../hosts install-pkg.yaml -u devops --ask-pass
354 cd roles
355 cd install-httpd/
356 cd tasks/
357 ls -l
358 vi main.yaml
359 cd ..
360 ls -l
361 vi install-pkg.yaml
362 ansible-playbook -i ../hosts install-pkg.yaml -u devops --ask-pass
363 vi install-pkg.yaml
364 cd roles/
365 ls -l
366 cd install-httpd/
367 ls -l
368 cd tasks/
369 cd -l
370 ls -l
371 vi main.yaml
372 cd ..
373 ansible-playbook -i ../hosts install-pkg.yaml -u devops --ask-pass
374 cd roles/
375 ls -l
376 cd install-httpd
377 cd tasks/
378 vi main.yaml
379 cd ..
380 ansible-playbook -i ../hosts install-pkg.yaml -u devops --ask-pass
381 history
devops@ansible-controller:~/roles-example$
```

```
devops@ansible-controller:~$ tree roles-example
```

```
roles-example
├── install-pkg.yaml
└── roles
    ├── install-git
    └── tasks
```



8 directories, 4 files

devops@ansible-controller:~\$

devops@ansible-controller:~/roles-example\$ ansible-playbook -i ../hosts install-pkg.yaml -u

devops --ask-pass

SSH password:

PLAY [install all required packages]

TASK [install-git : install git]

ok: [10.0.0.38]

ok: [10.0.0.29]

TASK [install-httpd : install httpd]

ok: [10.0.0.38]

ok: [10.0.0.29]

TASK [install-telnet : install telnet]

ok: [10.0.0.38]

ok: [10.0.0.29]

PLAY RECAP

10.0.0.29 : ok=3 changed=0 unreachable=0 failed=0 skipped=0 rescued=0

ignored=0

10.0.0.38 : ok=3 changed=0 unreachable=0 failed=0 skipped=0 rescued=0

ignored=0