

CentOS 8 64-bit - VMware Workstation

File Edit View VM Tabs Help

Home x CentOS 8 64-bit x CentOS 9 64-bit x

Activities Terminal Jul 21 04:15

eslam@machine1:/etc/ansible

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

[root@machine1 ansible]#
[root@machine1 ansible]# ansible-playbook usercreation.yml
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

PLAY [localhost] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [Add several users] *****
changed: [localhost] => (item=devuser)
changed: [localhost] => (item=qauser)

PLAY RECAP *****
localhost : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

[root@machine1 ansible]#
```

ansible [SSH: 192.168.80.110]

Welcome ! install_nginx.yml ! usercreation.yml x

! usercreation.yml

```
1 #Task 1
2 ---
3 - hosts: localhost
4   gather_facts: true
5   become: true
6   tasks:
7     - name: Add several users
8       ansible.builtin.user:
9         name: "{{ item }}"
10        state: present
11      loop:
12        - devuser
13        - qauser
14      when: ansible_facts['os_family'] == "RedHat" and ansible_facts['distribution_major']
15
```

SSH: 192.168.80.110 0 0 0 0 Ln 15, Col 1 Spaces: 2 UTF-8 LF {} YAML

CentOS 8 64-bit - VMware Workstation

File Edit View VM Tabs Help

Home x CentOS 8 64-bit x CentOS 9 64-bit x

Activities Terminal Jul 21 04:55

eslam@machine1:/etc/ansible

```
[root@machine1 ansible]# ansible-playbook install_packages.yml --check --diff
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost
does not match 'all'

PLAY [Install packages] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [Install "{{ item.name }}"] *****
ok: [localhost] => (item={'name': 'htop'})
changed: [localhost] => (item={'name': 'iftop'})
ok: [localhost] => (item={'name': 'net-tools'})

PLAY RECAP *****
localhost                : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0
ignored=0

[root@machine1 ansible]#
```

ansible [SSH: 192.168.80.110]

Welcome ! install_nginx.yml ! usercreation.yml ! install_packages.yml

```
! install_packages.yml
1  #TASK 2
2  ---
3  - name: Install packages
4    gather_facts: yes
5    hosts: localhost
6    vars:
7      packages:
8        - name: htop
9        - name: iftop
10       - name: net-tools
11
12    tasks:
13      - name: Install "{{ item.name }}"
14        yum:
15          name: "{{ item.name }}"
16          state: present
17        when: ansible_facts['distribution'] == "CentOS" or ansible_facts['distribution']
18        loop: "{{ packages }}"
19
```

CentOS 8 64-bit - VMware Workstation

File Edit View VM Tabs Help

Home x CentOS 8 64-bit x CentOS 9 64-bit x

Activities Terminal Jul 22 01:07

eslam@machine1:/etc/ansible

```
[root@machine1 ansible]# ansible-playbook copy.yml --check --diff
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

PLAY [copy config file] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [Copy nginx file] *****
ok: [localhost]

PLAY RECAP *****
localhost : ok=2  changed=0  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

[root@machine1 ansible]#

[root@machine1 ansible]# ansible-playbook copy.yml
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

PLAY [copy config file] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [Copy nginx file] *****
ok: [localhost]

PLAY RECAP *****
localhost : ok=2  changed=0  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

[root@machine1 ansible]#
```

ansible [SSH: 192.168.80.110]

nginx.yml ! usercreation.yml ! install_packages.yml ! copy.yml x ...

```
! copy.yml
1  #TASK 3
2  ---
3  - name: copy config file
4    hosts: localhost
5    become: yes
6
7    tasks:
8      - name: Copy nginx file
9        copy:
10         src: files/nginx.conf
11         dest: /etc/nginx/nginx.conf
12         mode: '0644'
13         notify: Restart nginx
14
15     handlers:
16       - name: Restart nginx
17         service:
18           name: nginx
19           state: restarted
```

SSH: 192.168.80.110 0 0 0 Ln 14, Col 12 Spaces: 2 UTF-8 LF {} YAML

CentOS 8 64-bit - VMware Workstation

File Edit View VM Tabs Help

Home x CentOS 8 64-bit x CentOS 9 64-bit x

Activities Terminal Jul 22 15:48

eslam@machine1:/etc/ansible

```
TASK [Gathering Facts] *****
ok: [localhost]

TASK [starts and enables the firewalld] *****
ok: [localhost]

PLAY RECAP *****
localhost          : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0
ignored=0

root@machine1 ansible]# ansible-playbook firewall.yml
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost
does not match 'all'

PLAY [Ensure Service is Running] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [starts and enables the firewalld] *****
ok: [localhost]

PLAY RECAP *****
localhost          : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0
ignored=0

[root@machine1 ansible]#
```

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

ansible [SSH: 192.168.80.110]

! firewall.yml x

```
! firewall.yml
1 #TASK 4
2 ---
3 - name: Ensure Service is Running
4   hosts: localhost
5   become: yes
6
7   tasks:
8     - name: starts and enables the firewalld
9       ansible.builtin.service:
10         name: firewalld
11         state: started
12         enabled: yes
13         when: (ansible_facts['distribution'] == "RedHat" and ansible_fa
14               (ansible_facts['distribution'] == "CentOS" and ansible_fa
```

SSH: 192.168.80.110

Ln 1, Col 8 Spaces: 2 UTF-8 LF {} YAML

CentOS 8 64-bit - VMware Workstation

File Edit View VM Tabs Help

Home x CentOS 8 64-bit x CentOS 9 64-bit x

Activities Terminal Jul 22 17:04

eslam@machine1:/etc/ansible

```
[root@machine1 ansible]# ansible-playbook file.yml --syntax-check
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost
does not match 'all'

playbook: file.yml
[root@machine1 ansible]# ansible-lint file.yml
WARNING Listing 2 violation(s) that are fatal
yaml[comments]: Missing starting space in comment
file.yml:1

yaml[indentation]: Wrong indentation: expected 8 but found 7
file.yml:11

Read documentation for instructions on how to ignore specific rule violations.

Rule Violation Summary
count tag                profile rule associated tags
1 yaml[comments]         basic  formatting, yaml
1 yaml[indentation]      basic  formatting, yaml

Failed: 2 failure(s), 0 warning(s) on 1 files. Last profile that met the validation criteria was 'min'.
A new release of ansible-lint is available: 6.22.2 -> 25.6.1
[root@machine1 ansible]#
```

ansible [SSH: 192.168.80.110]

! install_packages.yml ! copy.yml ! firewall.yml ! file.yml x ...

! file.yml

```
1  #TASK 5
2  ---
3  - name: Ensure exist directory
4    hosts: localhost
5    become: true
6    gather_facts: true
7
8    tasks:
9      - name: Make directory
10        ansible.builtin.file:
11          path: /var/log/myapp
12          state: directory
13          mode: '0774'
14
15      - name: Debug directory
16        ansible.builtin.debug:
17          msg: "Log directory is in place!"
18          when: ansible_facts['distribution'] == "Ubuntu"
19
```

SSH: 192.168.80.110 0 0 0 Ln 1, Col 2 Spaces: 2 UTF-8 LF {} YAML

CentOS 8 64-bit - VMware Workstation

File Edit View VM Tabs Help

Home x CentOS 8 64-bit x CentOS 9 64-bit x

Activities Terminal Jul 22 17:05

eslam@machine1:/etc/ansible

```
[root@machine1 ansible]# ansible-playbook file.yml
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost
does not match 'all'

PLAY [Ensure exist directory] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [Make directory] *****
ok: [localhost]

TASK [Debug directory] *****
skipping: [localhost]

PLAY RECAP *****
localhost                : ok=2    changed=0    unreachable=0    failed=0    skipped=1    rescued=0
ignored=0

[root@machine1 ansible]#
```

ansible [SSH: 192.168.80.110]

! install_packages.yml ! copy.yml ! firewall.yml ! file.yml x ...

! file.yml

```
1 #TASK 5
2 ---
3 - name: Ensure exist directory
4   hosts: localhost
5   become: true
6   gather_facts: true
7
8   tasks:
9     - name: Make directory
10       ansible.builtin.file:
11         path: /var/log/myapp
12         state: directory
13         mode: '0774'
14
15     - name: Debug directory
16       ansible.builtin.debug:
17         msg: "Log directory is in place!"
18       when: ansible_facts['distribution'] == "Ubuntu"
19
```

SSH: 192.168.80.110 0 0 0 Ln 1, Col 2 Spaces: 2 UTF-8 LF {} YAML