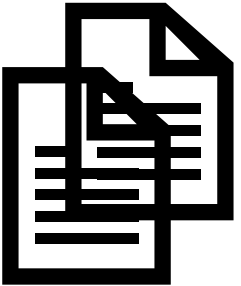


# Linux RedHat Certified Engineer (RHCE - EX294)

## Deploy Files to Managed Hosts

# Copy Files to Remote Clients

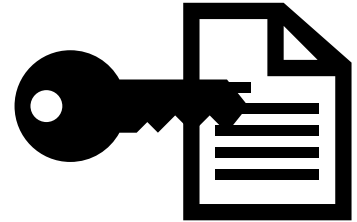


```
# echo somestuff > /home/iafzal/some.cfg  
# vim copy.yml
```

```
---  
- name: Copy file from local to remote clients  
  hosts: all  
  
  tasks:  
  - name: Copying file  
    become: true  
    copy:  
      src: /home/iafzal/some.cfg  
      dest: /tmp  
      owner: iafzal  
      group: iafzal  
      mode: 0644
```

→ Description of the playbook  
→ Run it on all hosts  
→ Run the following task(s)  
→ Description of the task  
→ Transfer as a current user  
→ Run **copy** module  
→ Source of the file  
→ Destination of the file  
→ Change ownership and file permissions

# Change File Permissions



```
# Login to LinuxClient1
# touch /home/iafzal/linux2

# Login to ControlNode
# vim filepermission.yml
```

```
---
- name: Change file permissions
  hosts: all

  tasks:
  - name: Files Permissions
    file:
      path: /home/iafzal/linux2
      mode: a+w
```

File location

Permissions

Run the playbook

```
# ansible-playbook filepermission.yml
```

- Ansible modules and options

<https://docs.ansible.com/ansible/2.5/modules/>  
<https://t.me/learningnets>

# Check File or Directory Status



```
# Login to ControlNode
# vim checkFS.yml
```

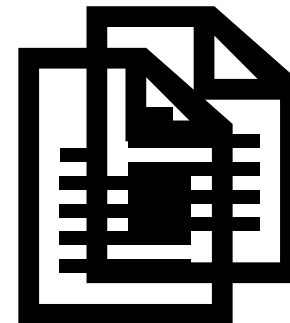
```
---
- name: File status module
  hosts: localhost

  tasks:
  - name: Check file status and attributes
    stat:
      path: /etc/hosts
      register: fs
  - name: Show result
    debug:
      msg: File attributes {{ fs }}
```

stat module  
File path/location  
Register or output to fs container  
debug module to print  
Print what is inside of fs container

```
Run the playbook
# ansible-playbook checkFS.yml
```

# Create Dir/File and Remove File



```
# Login to ControlNode
# vim crfile.yml
```

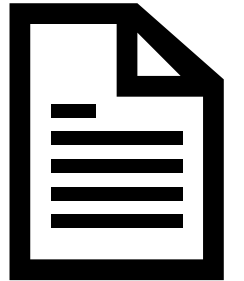
Run the playbook

```
# ansible-playbook crfile.yml
```

```
---
- name: Create and Remove file
  hosts: all
  tasks:
  - name: Create a directory
    file: file → file module
           path: /tmp/seinfeld → Location
           owner: iafzal
           group: iafzal
           mode: 770
           state: directory → Create a directory
  - name: Create a file in that directory
    file:
      path: /tmp/seinfeld/jerry → Create a file
      state: touch
  - name: Stat the new file jerry
    stat:
      path: /tmp/seinfeld/jerry
      register: jf → Put the result in jf container
  - name: Show file status
    debug:
      msg: File status and attributes {{ jf }} → Print container or variable contents
  - name: Remove file
    file:
      path: /tmp/seinfeld/jerry
      state: absent → Delete the file
```

<https://t.me/learningnets>

# Create a File and Add Text



```
# Login to ControlNode
# vim addtext.yml
```

```
---
- name: Create a file and add text
  hosts: localhost

  tasks:
  - name: Create a new file
    file:
      path: /tmp/george
      state: touch
  - name: Add text to the file
    blockinfile:
      path: /tmp/george
      block: George is one of the main
character of Seinfeld show and he is Jerry's
best friend
```

file module  
File path/location  
Create a file  
blockinfile module  
Add text to the file

Run the playbook

```
# ansible-playbook addtext.yml
```