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    ──────▶ Description of the playbook
  hosts: all    ──────▶ Run it on all hosts

  tasks:    ──────▶ Run the following task(s)
  - name: Copying file    ──────▶ Description of the task
    become: true    ──────▶ Transfer as a current user
    copy:    ──────▶ Run copy module
     src: /home/iafzal/some.cfg
     dest: /tmp
     owner: iafzal
     group: iafzal
     mode: 0644
```

Source of the file
Destination of the file

Change ownership and file permissions

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Change File Permissions
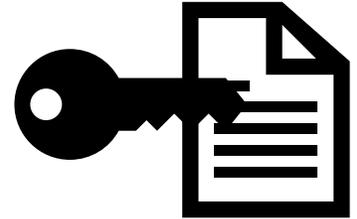
```
# Login to LinuxClient1
# touch /home/iafzal/linux2

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

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

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

```
    Run the playbook
    # anisble-playbook filepermission.yml
```

- Ansible modules and options
https://docs.ansible.com/ansible/2.5/modules/

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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:                                    → stat module
        path: /etc/hosts                     → File path/location
    register: fs                             → Register or output to fs container

  - name: Show result
    debug:                                   → debug module to print
        msg: File attributes {{ fs }}        → Print what is inside of fs container
```

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

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Create Dir/File and Remove File
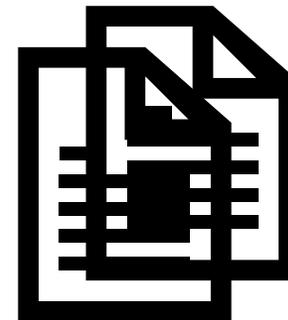
```
# Login to ControlNode
# vim crfile.yml
```
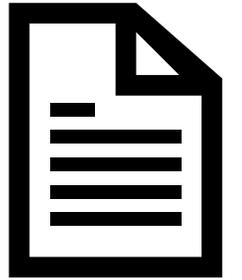
Run the playbook
```
# anisble-playbook crfile.yml
```

```
---
- name: Create and Remove file
  hosts: all
  tasks:
  - name: Create a directory
    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
```

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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:                              ────────▶ file module
        path: /tmp/george ─────────────────────▶ File path/location
        state: touch ──────────────────────────▶ Create a file

  - name: Add text to the file
    blockinfile:───────────────────────────────▶ blockinfile module
        path: /tmp/george
        block: George is one of the main ──────▶ Add text to the file
character of Seinfeld show and he is Jerry's
best friend
```

```
    Run the playbook
    # anisble-playbook addtext.yml
```

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