ANSIBLE LOOPS

```
name: New playbook
hosts: all
gather_facts: false
tasks:
 - name: Copy files
    copy:
     src: "{{ item }}"
     dest: /root/
   loop:
     newfile1.txt
     newfile2.txt
     newfile3.txt
     newfile4.txt
     newfile5.txt
```

Multiple Loops

```
name: New playbook
hosts: all
gather_facts: false
tasks:
 - name: Copy files
    copy:
      src: "{{ item.src }}"
      dest: "{{ item.dest }}"
   loop:
     - src: newfile1.txt
        dest: /root
     - src: newfile2.txt
        dest: /home
     - src: newfile3.txt
        dest: /
     - src: newfile4.txt
        dest: /home/deep
      - src: newfile5.txt
        dest: /home/managed1
```

Create a ".vimrc" file in the home directory of the user set ai

To make Ansible easier

set expandtab set tabstop=2

set cursorcolumn

```
Ignore Errors
hosts: all
tasks:
  - yum:
     name: httpd
```

stte: absent ignore_errors: yes

```
- name: Copy a file
     copy:
      src: content.txt
      dest: /home
 name: Second Play
 hosts: webserver
 tasks:
   - name: Create a User
     user:
      name: abcde
ANSIBLE CONDITIONALS
```

```
name: Install packages
     hosts: all
     tasks:
       - name: Install Apache on servers
         apt:
           name: apache2
           state: present
         when: ansible_distribution == "Ubuntu"
       - name: Install Apache on servers
         yum:
           name: httpd
           state: present
         when: ansible_distribution == "RedHat"
name: Install packages
```

```
hosts: all
vars:
  - package_name: php
tasks:
  - name: Install Apache on servers
    apt:
     name: apache2
      state: present
   when: ansible_distribution == "Ubuntu"
  - name: Install Apache on servers
    yum:
      name: httpd
      state: present
    when: ansible_distribution == "RedHat"
  - name: Install package
    yum:
      name: "{{ package_name }}"
      state: present
    when: ansible_memtotal_mb > 2000 or ansible_distribution == "RedHat"
  - name: create a user
    user:
      name: qwerty
```

1. == 2. < 3. > 4. <=

Usable Conditionals

```
5. >=
            6. !=
   7. (Var/fact) is defined
 8. (Var/fact) is not defined
9. "or" and "and" can be used
```

name: Apache Webserver setup

ANSIBLE HANDLERS

Handler is a task that is dependent on another task

```
hosts: all
gather_facts: false
tasks:

    name: Install the package

    dnf:
      name: httpd
      state: latest

    name: Copy webiste content

    copy:
      src: index.html
      dest: /var/www/html/index.html

    name: Create a directory

    file:
      path: /var/www/webserver
      state: directory
  - name: Copy Website content 2
    copy:
      src: index2.html
      dest: /var/www/webserver/index.html

    name: Copy config file

    copy:
      src: 1.conf
      dest: /etc/httpd/conf/1.conf
    notify: service_restart
  - name: See output
    command: "curl localhost"
    register: redhat
  - name: Print the output
    debug:
      var: redhat.stdout_lines
handlers:
  - name: service_restart
    service:
      name: httpd
      state: restarted
```

JINJA TEMPLATE

```
THIS MACHINE'S NAME IS {{ ansible_hostname }} AND THE IP IS {{ ansible_default_ipv4.address }}
THE TOTAL MEMORY IS {{ ansible_memtotal_mb }}
THE OS IS {{ ansible_distribution }}
USING THIS PACKAGE {{    package_name }}
{# This File is just for testing purpose #}
172.25.10.0
172.25.10.20
{% for number in range (0,21) %}
172.25.10.{{ number }}
{% endfor %}
  ansible_cmdline | to_nice_yaml }}
```

```
name: Copy content
hosts: all
vars:
  package_name: PHP
tasks:
  - name: Info about node
    template:
      src: info.txt
      dest: /root
         PARALLELISM
```

Fork Value (default with value as 5)

Task on next 5 Nodes and 1st Task on next 5 Nodes.....

Run the 1st Task on the First 5 Nodes and 1st

Serial Value (If value is 5)

Run the whole playbook on the First 5 Nodes and whole playbook on next 5 Nodes and whole playbook on next 5 Nodes......