

TAGS

```
ansible-playbook play1.yml --tags=<name_of_tag>
ansible-playbook play1.yml --skip-tags=<name_of_tag>
```

```
---
- name: Some tasks
  hosts: all
  tasks:
    - name: Copy a file
      copy:
        src: newcontent.txt
        dest: /
      tags:
        - content
        - abc
    - name: package installation
      dnf:
        name: haproxy
        state: latest
      tags:
        - content
        - work
    name: Create a file
    file:
      path: /abc
      state: directory

- name: Second play
  hosts: webserver
  tasks:
    - name: create a user
      user:
        name: redhat1
      tags:
        - work
```

RAAP 2.0

Red Hat Ansible Automation Platform 2.0

Ansible Core + Ansible Collections + Ansible Navigator + Execution Environment

Collections:
These are groups of related modules

FQCN
Fully Qualified Collection Name

Example:
Ansible.builtin.copy

Ansible Navigator
TUI (Text User Interface)

Ansible Variables

Convenient way to manage dynamic values

Naming Convention:

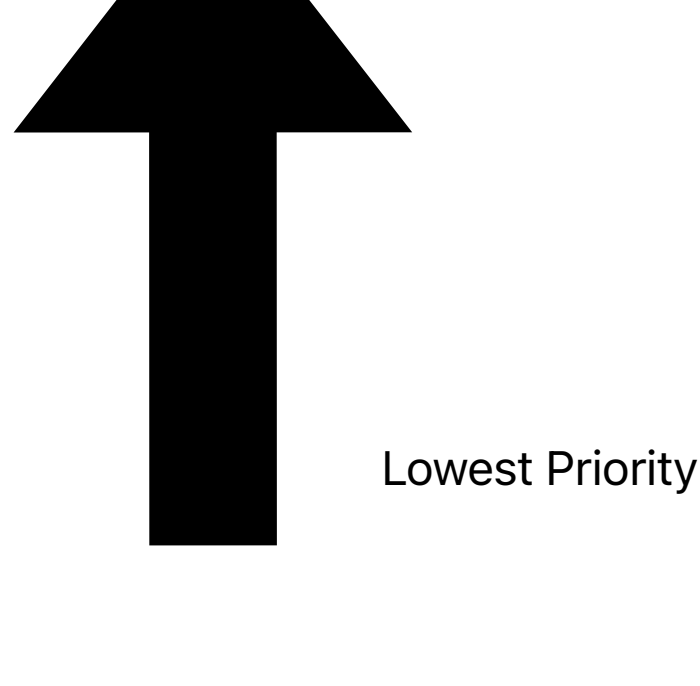
- Not Permitted:**
- No spacing between words (web server)
 - 1variable
 - remote.user
 - content\$new
- Permitted:**
- Start with a letter
 - letters, numbers, and underscore (_)

How to Define a Variable:

```
{{ variable_name }}
"{{ variable_name }}"
```

Types:

Global Scope
Play Scope - External
Play Scope - Internal
Hosts Scope



Host Scope

```
192.168.137.128      ansible_user=managed1 package_name=httpd
192.168.137.139      ansible_user=managed2

[webserver]
192.168.137.139      ansible_user=managed2
~
~
~
```

Play Scope - Internal

```
---
- hosts: all
  vars:
    package_name: haproxy
    package_state: absent
  tasks:
    - yum:
        name: "{{ package_name }}"
        state: "{{ package_state }}"
```

Play Scope - External

```
---
- hosts: all
  vars_files:
    - vars.yml
  vars:
    package_name: php
  tasks:
    - yum:
        name: "{{ package_name }}"
        state: "{{ package_state }}"
    - debug:
        msg: "{{ package_name }} and {{ package_state }}"
```

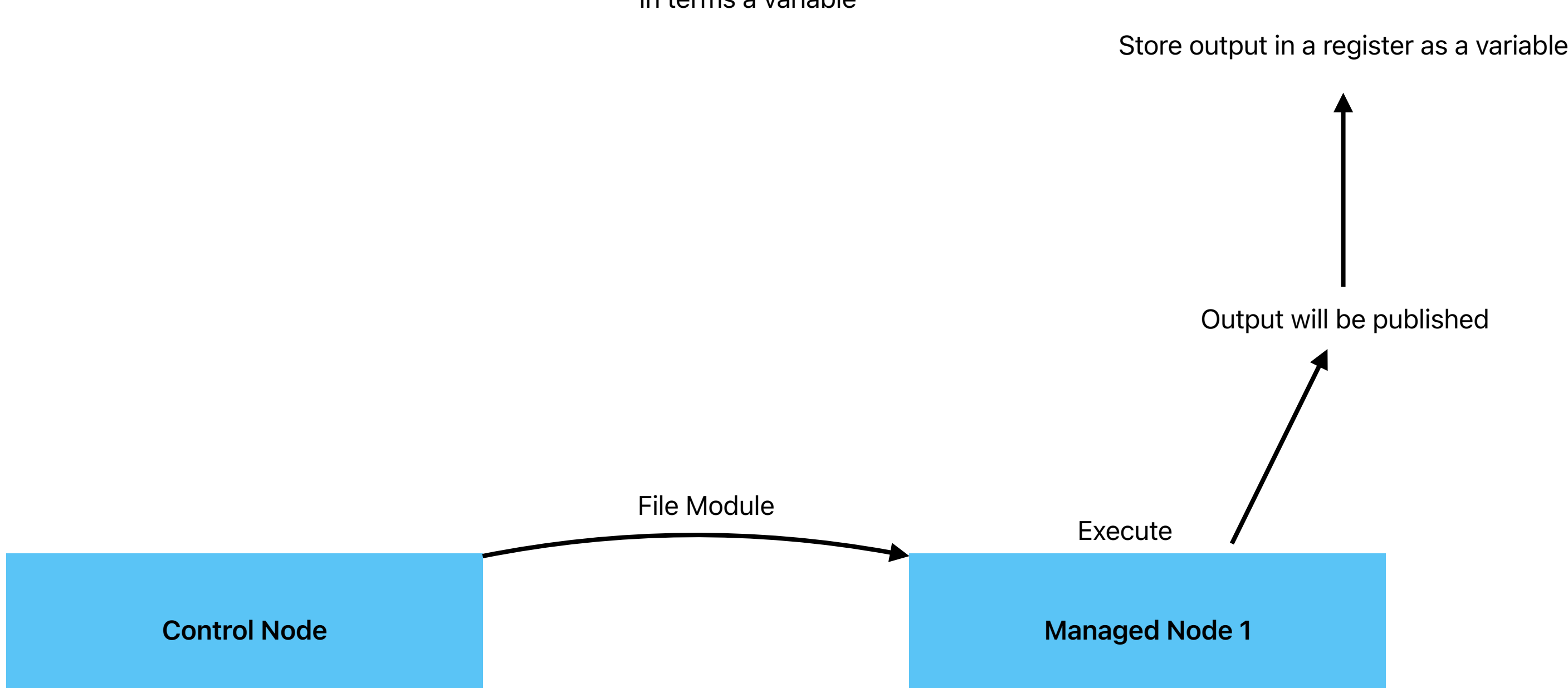
vars.yml

```
---
package_name: httpd
package_state: absent
~
```

Global Scope (Extra Vars)

```
[control@CN ansible]$ ansible-playbook play3.yml -e package_name=nginx
```

ANSIBLE REGISTERS



```
---
- hosts: all
  tasks:
    - name: Create a file
      file:
        path: /1.txt
        state: touch
      register: linux
    - name: Print Output
      debug:
        var: linux.diff.before.state
```

ANSIBLE SECRETS

Ansible Vault

```
Ansible-vault encrypt <name_of_playbook>
Ansible-vault decrypt <name_of_playbook>
Ansible-vault edit <name_of_playbook>
Ansible-vault view <name_of_playbook>
Ansible-playbook <name_of_playbook> --ask-vault-pass
```

ANSIBLE FACTS

LEGACY METHOD OF DEFINING FACTS

```
ansible_default_ipv4.address
ansible_date_time.date
ansible_all_ipv4_addresses[0]
```

NEW METHOD OF DEFINING FACTS

```
ansible_facts['default_ipv4']['address']
ansible_facts['date_time']['date']
ansible_facts['all_ipv4_addresses'][0]
```

```
---
- name: Information
  hosts: all
  tasks:
    - name: Print Info
      debug:
        msg: "This machine is {{ ansible_default_ipv4.address }} and its hostname is
{{ ansible_hostname }} and free memory on node is {{ ansible_memtotal_mb }}"
```

```
[defaults]

inventory= /home/control/ansible/inventory
gathering= implicit

[privilege_escalation]
become=True
become_method=sudo
become_user=root
become_ask_pass=False
```