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► How to declare variable in ansible playbooks

```
---
- hosts: all
become: yes
var:
    pkg_name: git
tasks:
    - name: Install git
    yum:
    name: {{ pkg_name }}
    state: present
```

Execute the playbook the and show installation done successfully.

► Override the git variable explicitly during ansible playbook execution

```
ansible-playbook -i hosts -v -e "pkg_name=tree" samp.yml
```

▶ Define variables in /etc/hosts as host variables & group variables

► Write a playbook to install the package using host vars

hosts: webserverbecome: yestasks:name: print the variable

debug:

msg: The variable pkg_name is: "{{ pkg_name }}"

o/p:-

The variable pkg_name is: wget

► Write a playbook to install the package using group vars

hosts: dbserver become: yes tasks:

- name: print the variable

```
debug:
        msg: The variable pkg_name is: "{{ pkg_name }}"
   o/p:-
   The variable pkg_name is: apache2
Priority levels of variable
     0 --> group_vars
     1 --> host vars
     2 --> variable in playbook
     3 --> variable passed through the command line
      o Example: Maintain variables in
            group_vars(apache2)
            host_vars(wget)
            playbook(git)
            command line(tree) & test the priority levels
      Write a playbook & execute
         - hosts: all
         become: yes
         vars:
          pkg_name: git
         tasks:
          - name: print the variable
           debug:
             msg: The variable pkg_name is: "{{ pkg_name }}"
         exec1-
         ansible-playbook -i hosts -e "pkg_name=tree" -v smp.yml
         The variable pkg_name is: tree
         exec2:-
         ansible-playbook -i hosts -v smp.yml
         o/p:
         The variable pkg_name is: git
         exec3:- Disable variable & define host vars for dbserver group also
         ansible-playbook -i hosts -v smp.yml
         o/p:
         The variable pkg_name is: wget
```

exec4:-

ansible-playbook -i hosts -v smp.yml o/p:
The variable pkg_name is: apache2

▶ New way of declaring the group_vars & host_vars

```
cd /home/ansible
ls
hosts
group_vars/webserver.yml
host_vars/10.1.2.100.yml

    Create host file with this contents

     The host file contains details like
     [webserver]
     10.1.1.100
     10.1.1.101
     [dbserver]
     10.1.2.100

    Define variables at group level

     webserver.yml
     pkg_name: git

    Define variables at host level

     10.1.2.100.yml
     pkg name: tree
  o Provide hosts details as web-server & check which package is getting executed
     - hosts: webserver
      become: ves
      tasks:
       - name: print the pkg_name
         debug:
          msg: value of pkg_name is "{{ pkg_name }}"
     Exec: On webserver related nodes git package will get installed
  o Provide hosts details as ip-details & check which package is getting executed
     - hosts: 10.1.2.100
      become: yes
      tasks:
       - name: print the pkg_name
         debug:
          msg: value of pkg_name is "{{ pkg_name }}"
     Exec: On 10.1.2.100 node tree package will get installed
  o Provide all hosts & check which package is getting executed
     - hosts: all
      become: yes
      tasks:
       - name: print the pkg_name
         debug:
          msg: value of pkg_name is "{{ pkg_name }}"
```

Exec: On webserver related nodes git package will get installed On 10.1.2.100 node tree package will get installed