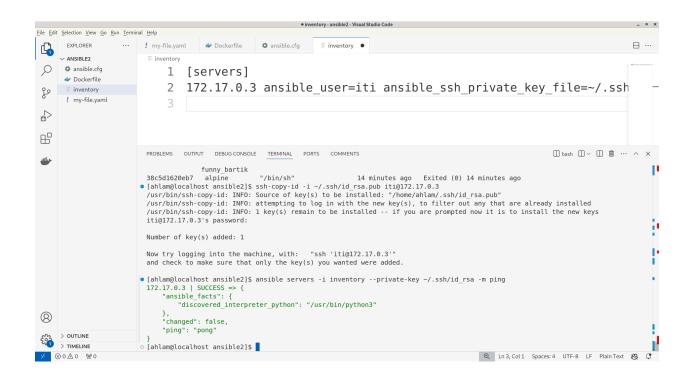
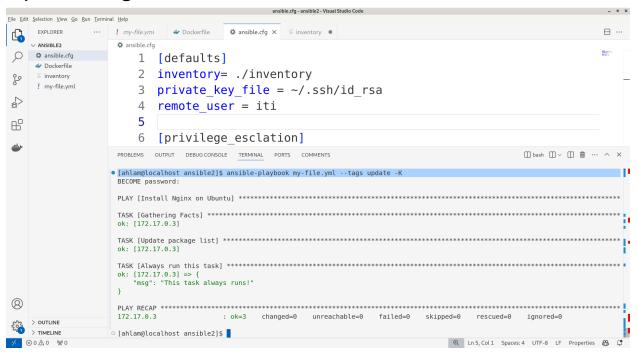
Write simple playbook file Add two tasks (apt update – apt install nginx) Add tags to first task: update Add tags to second task: install Run only the (apt update) task Example: ansible-playbook my-playbook.yml --tags update Add one task with "tags: always" and run the previous command again

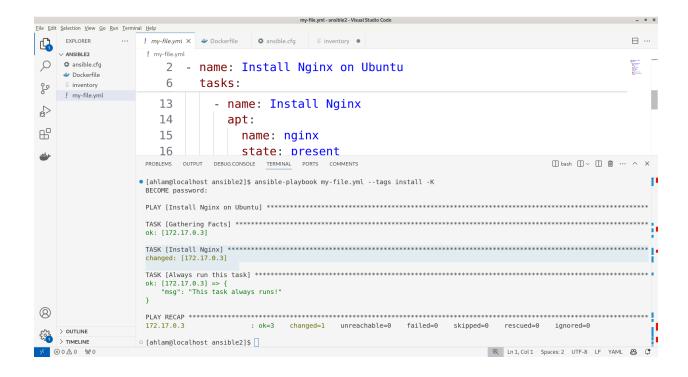


```
my-file.yaml - ansible2 - Visual Studio Code
<u>File Edit Selection View Go Run Terminal Help</u>
    ⊟ …
     ! my-file.yaml
Q
        1
          - name: Install Nginx on Ubuntu
             hosts: servers
        4
             become: yes
        5
        6
             tasks:
        7
                - name: Update package list
        8
        9
                    update_cache: yes
       10
                  tags:
       11
                  - update
       12
       13
                - name: Install Nginx
       14
       15
                    name: nginx
       16
                    state: present
       17
                  tags:
       18
                  - install
```

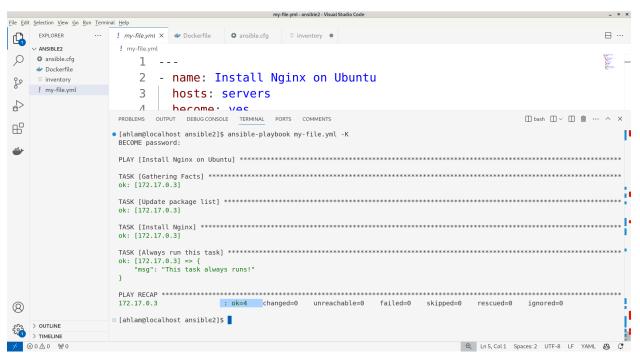
Update tag



Install nginx tag



All tasks



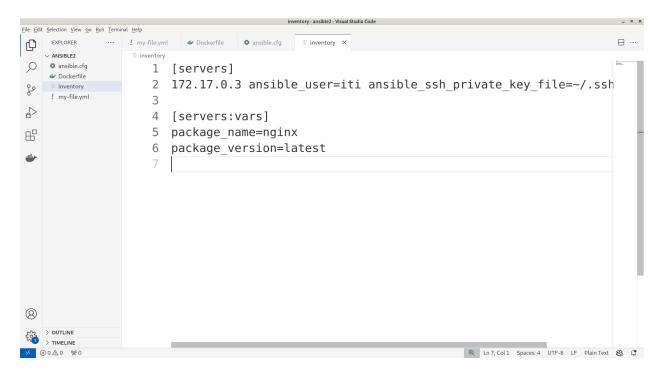
Define these variables (package_name, package_version) on playbook level on inventory level on command line level Use apt module with the package name and version from your variables Vars in playbook level

```
File Edit Selection View Go Run Terminal Help
EXPLORER

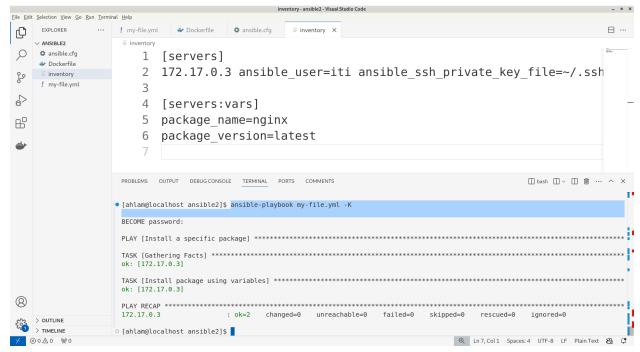
√ ANSIBLE2

               ! my-file.yml
ansible.cfg
                   1 ---
   Dockerfile
                   2 - name: Install a specific package
inventory
my-file.yml
                   3
                      hosts: servers
                   4
                        become: yes
                   5
品
                   6
                        vars:
                   7
                         package name: nginx
                   8
                        package version: latest
                   9
                  10
                  11
                          - name: Install package using variables
                  12
                  13
                              name: "{{ package_name }}={{ package_version }}"
                  14
                              state: present
   > OUTLINE
```

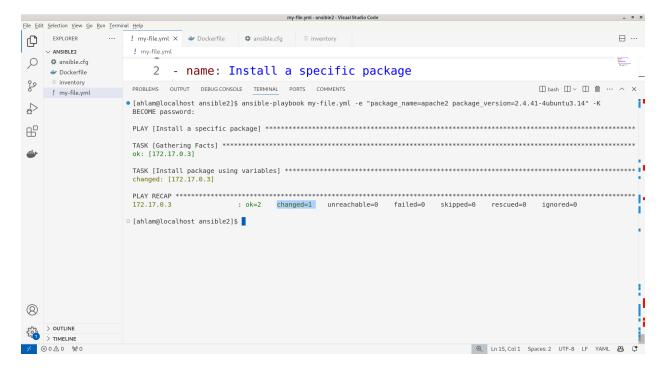
Vars on inventory level



Took vars from inventory level

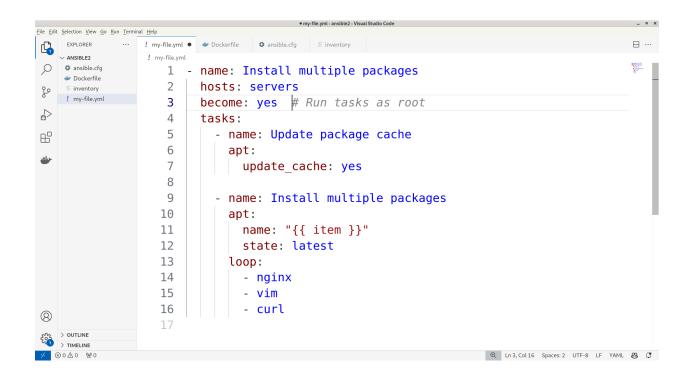


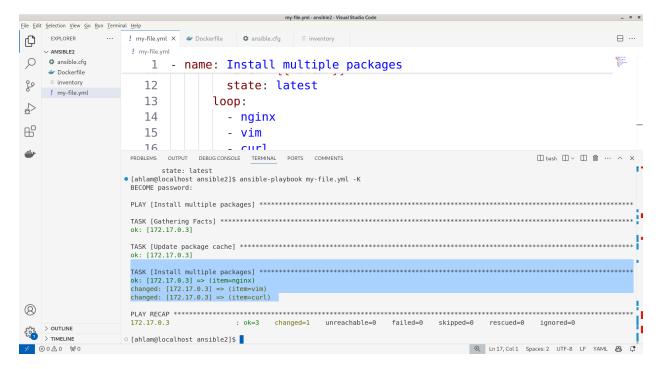
Override vars usng cmd



Installed apache instead of nginx

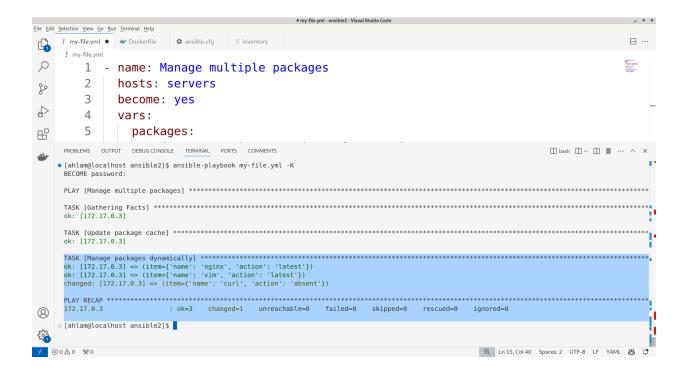
Loop over a list of packages and install latest versions.





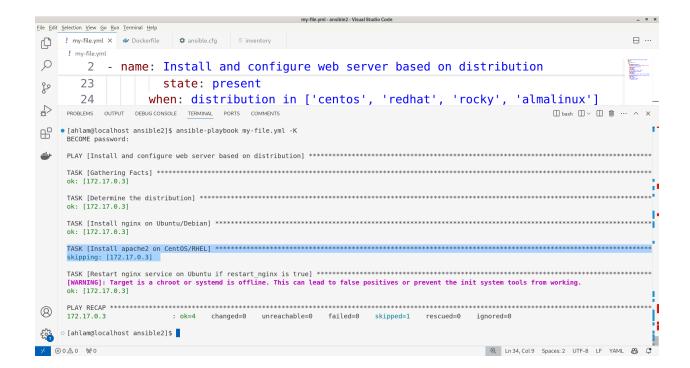
Loop over a list of packages and perform different actions as per input.

```
<u>File Edit Selection View Go Run Terminal Help</u>
    ! my-file.yml ●   Dockerfile     ansible.cfg
! my-file.yml
Q
        1 - name: Manage multiple packages
              hosts: servers
go
        3
              become: yes
 $
        4
              vars:
        5
                packages:
B
                  - { name: "nginx", action: "latest" }
        6
                  - { name: "vim", action: "latest" }
        8
               - { name: "curl", action: "absent" }
        9
       10
              tasks:
       11
               - name: Update package cache
       12
       13
                update_cache: yes
       14
       15
                - name: Manage packages dynamically
       16
       17
                    name: "{{ item.name }}"
                    state: "{{ item.action }}"
       18
       19
                 loop: "{{ packages }}"
       20
     PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS
                                                                                                            □ bash □ ~ □ 🛍 ··· ^ ×
    o [ahlam@localhost ansible2]$ [
```



Install nginx or apache2 depending on distribution Restart nginx service if distribution is ubuntu and variable value is true

```
! my-file.yml ● 👉 Dockerfile 🗘 ansible.cfg 🗏 inventory
                                                                                           ⊟ …
    ! mv-file.vml
0
       1 ---
       2 - name: Install and configure web server based on distribution
       3
            hosts: all
            become: yes
       5
            vars:
            restart nginx: true # Set to true to restart nginx service on Ubuntu
       7
       8
       9
              - name: Determine the distribution
                ansible.builtin.set fact:
                  distribution: "{{ ansible_facts['distribution'] | lower }}"
      11
      12
      13
              - name: Install nginx on Ubuntu/Debian
      14
                ansible.builtin.apt:
      15
                  name: nginx
      16
                  state: present
      17
                  update cache: yes
                when: distribution in ['ubuntu', 'debian']
```



REGISTER & WHEN

View the value of your register variable using debug module

Restart service if the installation task was changed or was not failed

```
<u>File Edit Selection View Go Run Terminal Help</u>
! my-file.yml × → Dockerfile
                     ansible.cfg = inventory
                                                                                                  ⊟ …
     ! my-file.yml
           - name: Install a package and restart the service if needed
        8
             tasks:
A
                - name: Install package if not already installed
       9
       10
       11
                    name: "{{ package_name }}"
       12
                    state: latest
       13
                  register: install result
                  ignore errors: yes # error 7ena 3ala 7asab el package w el os
       14
       15
       16
                - name: Debug the result of package installation
       17
                  debug:
                    msg: "Package {{ package_name }} installation result: {{ install_r
       18
       19
                  when: install result is defined
       20
                - name: Restart nginx service if package installation was successful (
       21
       22
                  service:
       23
                    name: nginx
                                                                         ⊕ Ln 26, Col 1 Spaces: 2 UTF-8 LF YAML 😝 🚨
```

