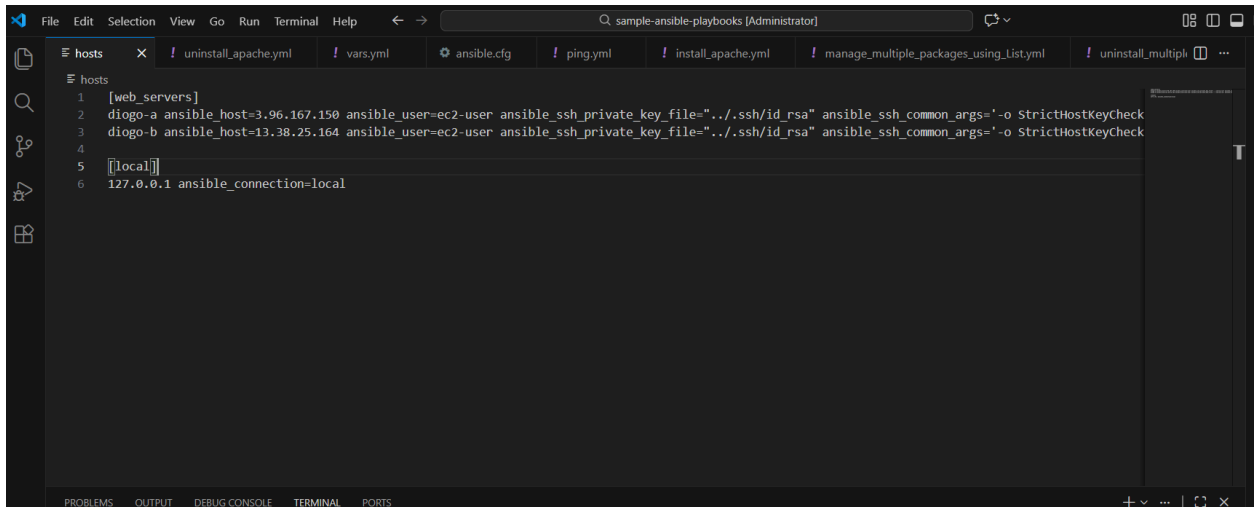


LAB | Lists and Dictionaries in Ansible Playbooks

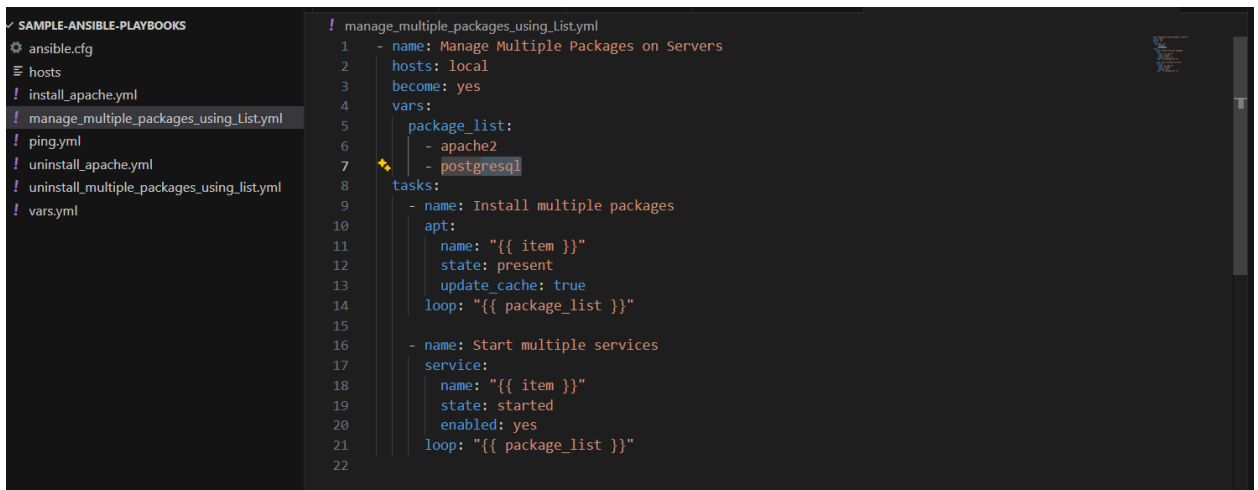


```
File Edit Selection View Go Run Terminal Help
sample-ansible-playbooks (Administrator)

hosts
1 [web_servers]
2 diogo-a ansible_host=3.96.167.150 ansible_user=ec2-user ansible_ssh_private_key_file=../../ssh/id_rsa ansible_ssh_common_args='-o StrictHostKeyCheck
3 diogo-b ansible_host=13.38.25.164 ansible_user=ec2-user ansible_ssh_private_key_file=../../ssh/id_rsa ansible_ssh_common_args='-o StrictHostKeyCheck
4
5 [[local]]
6 127.0.0.1 ansible_connection=local

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
```

Task 1: Using Lists as Variables



```
✓ SAMPLE-ANSIBLE-PLAYBOOKS
  ansible.cfg
  hosts
  ! install_apache.yml
  ! manage_multiple_packages_using_List.yml
  ! ping.yml
  ! uninstall_apache.yml
  ! uninstall_multiple_packages_using_list.yml
  ! vars.yml

! manage_multiple_packages_using_List.yml
1 - name: Manage Multiple Packages on Servers
2   hosts: local
3   become: yes
4   vars:
5     package_list:
6       - apache2
7       - postgresql
8   tasks:
9     - name: Install multiple packages
10       apt:
11         name: "{{ item }}"
12         state: present
13         update_cache: true
14         loop: "{{ package_list }}"
15
16     - name: Start multiple services
17       service:
18         name: "{{ item }}"
19         state: started
20         enabled: yes
21         loop: "{{ package_list }}"
22
```

```

vijayagla@DESKTOP-FP40P26:~/sample-ansible-playbooks$ ansible-playbook manage_multiple_packages_using_List.yml

PLAY [Manage Multiple Packages on Servers] *****

TASK [Gathering Facts] *****
ok: [127.0.0.1]

TASK [Install multiple packages] *****

TASK [Install multiple packages] *****
changed: [127.0.0.1] => (item=apache2)
changed: [127.0.0.1] => (item=postgresql)

TASK [Start multiple services] *****
changed: [127.0.0.1] => (item=apache2)
changed: [127.0.0.1] => (item=postgresql)

changed: [127.0.0.1] => (item=apache2)
changed: [127.0.0.1] => (item=postgresql)

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changed: [127.0.0.1] => (item=postgresql)

changed: [127.0.0.1] => (item=apache2)
changed: [127.0.0.1] => (item=postgresql)

changed: [127.0.0.1] => (item=postgresql)

TASK [Start multiple services] *****
TASK [Start multiple services] *****
ok: [127.0.0.1] => (item=apache2)
changed: [127.0.0.1] => (item=postgresql)
ok: [127.0.0.1] => (item=apache2)
changed: [127.0.0.1] => (item=postgresql)

```

```

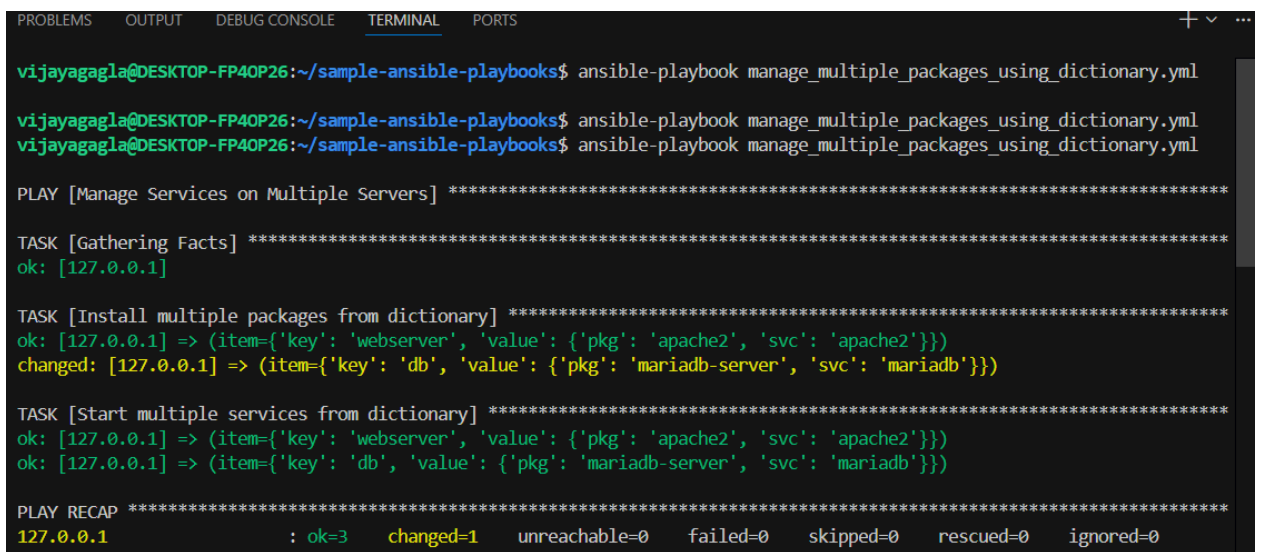
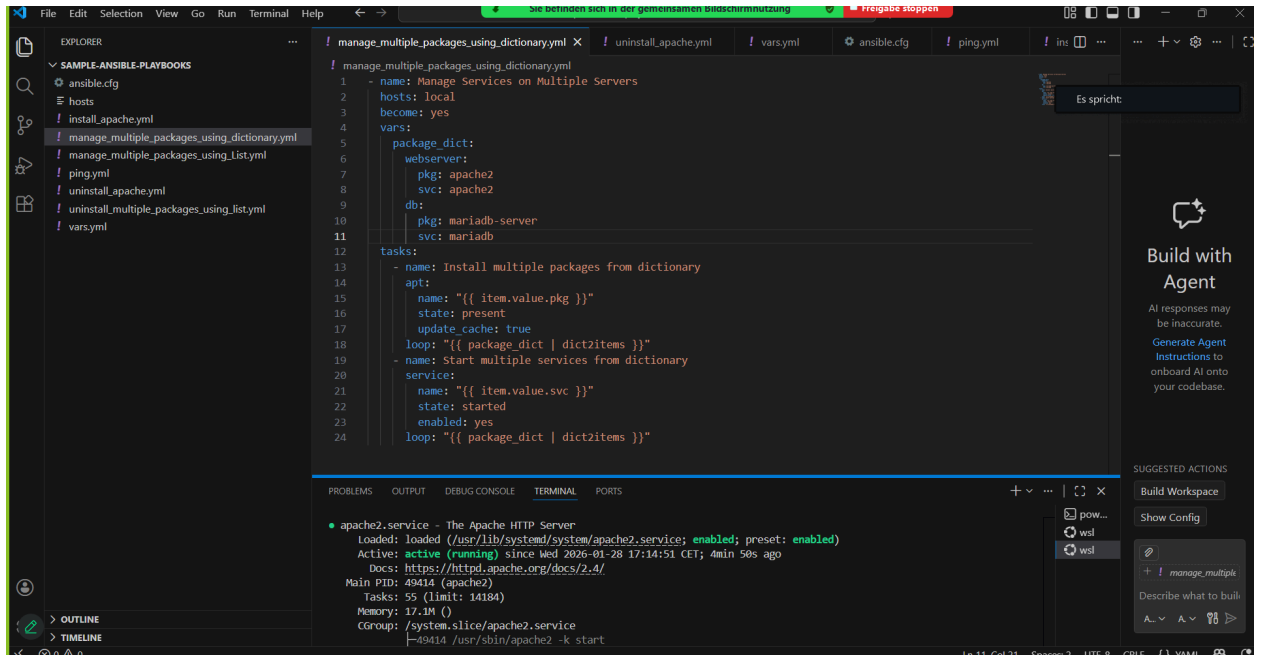
TASK [Start multiple services] *****
TASK [Start multiple services] *****
ok: [127.0.0.1] => (item=apache2)
changed: [127.0.0.1] => (item=postgresql)
ok: [127.0.0.1] => (item=apache2)
changed: [127.0.0.1] => (item=postgresql)
changed: [127.0.0.1] => (item=postgresql)

PLAY RECAP *****
127.0.0.1          : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

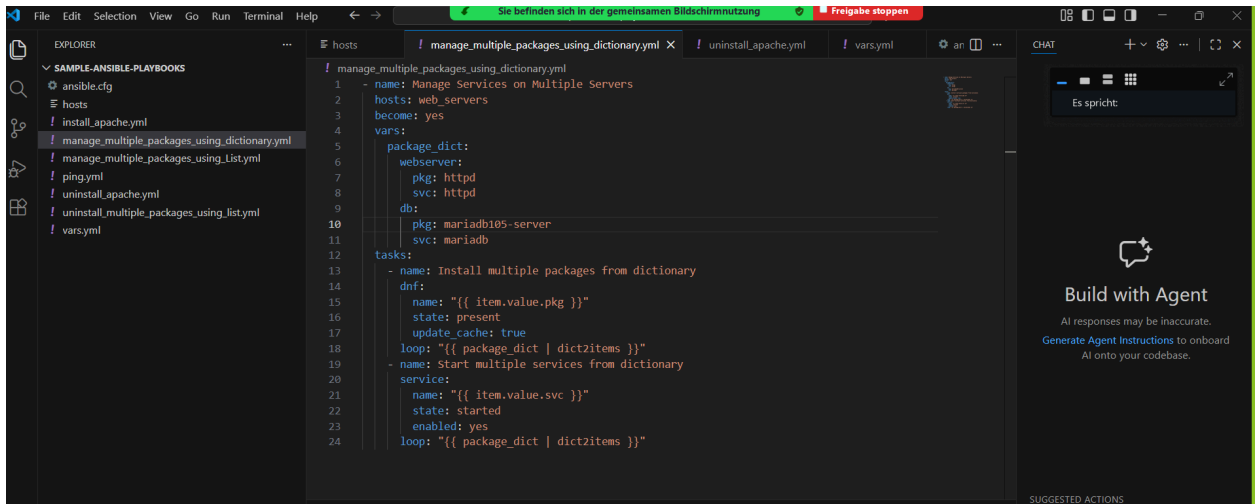
vijayagla@DESKTOP-FP40P26:~/sample-ansible-playbooks$ 

```

Task 2: Using Dictionaries as Variables



On Remote Servers:



```
vijayagaglia@DESKTOP-FP40P26:~/sample-ansible-playbooks$ ansible-playbook manage_multiple_packages_using_dictionary.yml
```

```
PLAY [Manage Services on Multiple Servers] *****
```

```
TASK [Gathering Facts] *****
```

```
[WARNING]: Platform linux on host diogo-b is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.16/reference_appendices/interpreter_discovery.html for more information.
```

```
ok: [diogo-b]
```

```
[WARNING]: Platform linux on host diogo-a is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-core/2.16/reference_appendices/interpreter_discovery.html for more information.
```

```
ok: [diogo-a]
```

```
TASK [Install multiple packages from dictionary] *****
```

```
ok: [diogo-b] => (item={'key': 'webserver', 'value': {'pkg': 'httpd', 'svc': 'httpd'}})
```

```
ok: [diogo-a] => (item={'key': 'webserver', 'value': {'pkg': 'httpd', 'svc': 'httpd'}})
```

```
changed: [diogo-b] => (item={'key': 'db', 'value': {'pkg': 'mariadb105-server', 'svc': 'mariadb'}})
```

```
ok: [diogo-a] => (item={'key': 'db', 'value': {'pkg': 'mariadb105-server', 'svc': 'mariadb'}})
```

```
TASK [Start multiple services from dictionary] *****
```

```
ok: [diogo-b] => (item={'key': 'webserver', 'value': {'pkg': 'httpd', 'svc': 'httpd'}})
```

```
changed: [diogo-b] => (item={'key': 'db', 'value': {'pkg': 'mariadb105-server', 'svc': 'mariadb'}})
```

```
changed: [diogo-b] => (item={'key': 'db', 'value': {'pkg': 'mariadb105-server', 'svc': 'mariadb'}})
```

```
ok: [diogo-a] => (item={'key': 'webserver', 'value': {'pkg': 'httpd', 'svc': 'httpd'}})
```

```
ok: [diogo-a] => (item={'key': 'db', 'value': {'pkg': 'mariadb105-server', 'svc': 'mariadb'}})
```

```
PLAY RECAP *****
```

```
diogo-a      : ok=3    changed=0    unreachable=0    failed=0    skipped=0    rescued=0
```

```
ignored=0
```

```
diogo-b      : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0
```

```
ignored=0
```

