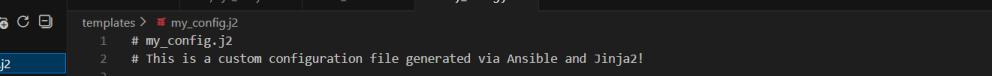


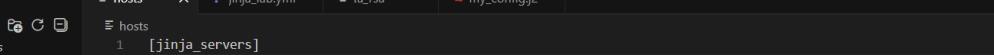
# LAB | Setup remote servers with Ansible & J2

## Template



```
# my_config.j2
# This is a custom configuration file generated via Ansible and Jinja2!
#
# Environment: {{ environment_type }}
# Server Role: {{ server_role }}
#
# Message to show each server is unique:
Custom Greeting: "Hello from {{ inventory_hostname }} - The IP is {{ ansible_host }}"
#
# The server time is dynamically inserted:
Generated At: {{ lookup('pipe','date') }}
```

## hosts

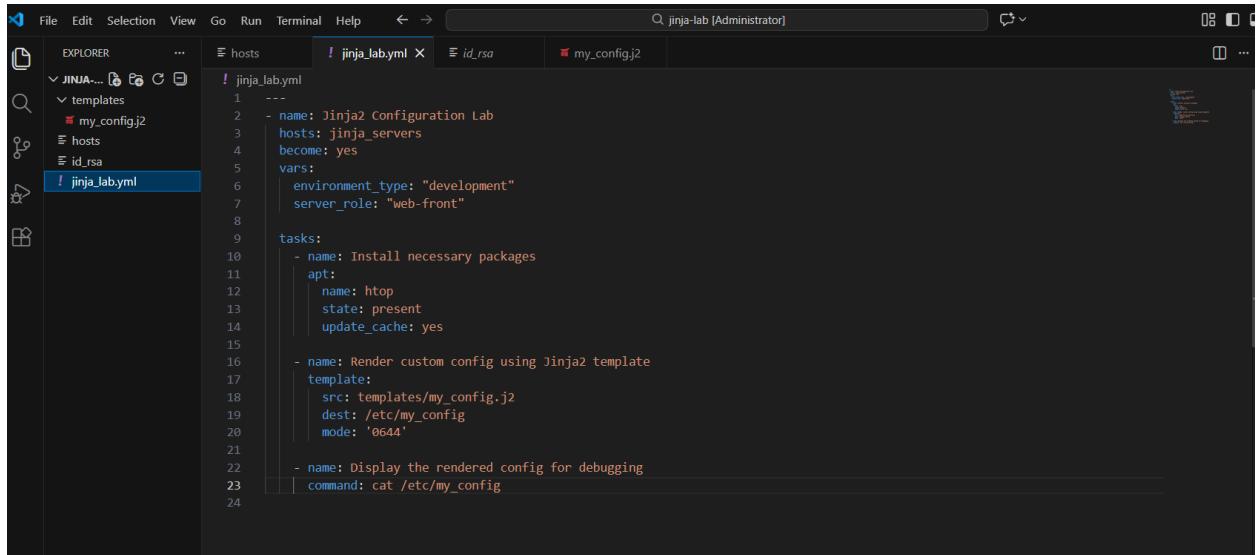


The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** Search term: jinja-lab [Administrator].
- Sidebar:** Explorer, JINJA..., templates, my\_config.j2, hosts (selected), id\_rsa, jinja\_lab.yml.
- Content Area:** hosts file content:

```
1 [jinja_servers]
2 web1 ansible_host=20.121.16.78 ansible_ssh_user=azureuser ansible_ssh_private_key_file=~/ssh/id_rsa
3 web2 ansible_host=20.25.104.15 ansible_ssh_user=azureuser ansible_ssh_private_key_file=~/ssh/id_rsa
```

## Playbook



The screenshot shows the Ansible Web interface. In the top navigation bar, the 'File' and 'Edit' tabs are selected. Below the navigation, there's a search bar with the query 'jinja-tab [Administrator]'. The main area is titled 'hosts' and contains the file 'jinja\_lab.yml'. The code in 'jinja\_lab.yml' is as follows:

```
! jinja_lab.yml
1 ---
2 - name: Jinja2 Configuration Lab
3   hosts: jinja_servers
4   become: yes
5   vars:
6     environment_type: "development"
7     server_role: "web-front"
8
9   tasks:
10    - name: Install necessary packages
11      apt:
12        name: htop
13        state: present
14        update_cache: yes
15
16    - name: Render custom config using Jinja2 template
17      template:
18        src: templates/my_config.j2
19        dest: /etc/my_config
20        mode: '0644'
21
22    - name: Display the rendered config for debugging
23      command: cat /etc/my_config
24
```

## Outputs

```
vijayagagla@DESKTOP-FP4OP26:~/jinja-lab$ ansible-playbook -i hosts jinja_lab.yml
PLAY [Jinja2 Configuration Lab] ****
TASK [Gathering Facts] ****
ok: [web1]
ok: [web2]

TASK [Install necessary packages] ****
ok: [web1]
ok: [web2]

TASK [Render custom config using Jinja2 template] ****
changed: [web1]
changed: [web2]

TASK [Display the rendered config for debugging] ****
changed: [web1]
changed: [web2]

TASK [debug] ****
ok: [web1] => {
  "out.stdout": "# my_config.j2\n# This is a custom configuration file generated via Ansible and Jinja2!\n\nEnvironment: development\nServer Role: web-front\n\n# Message to show each server is unique:\nCustom Greeting: \"Hello from web1 - The IP is 20.121.16.78\"\n\n# The server time is dynamically inserted:\nGenerated At: Thu Jan 29 14:48:15 CET 2026"
}
ok: [web2] => {
  "out.stdout": "# my_config.j2\n# This is a custom configuration file generated via Ansible and Jinja2!\n\nEnvironment: development\nServer Role: web-front\n\n# Message to show each server is unique:\nCustom Greeting: \"Hello from web2 - The IP is 20.25.104.15\"\n\n# The server time is dynamically inserted:\nGenerated At: Thu Jan 29 14:48:15 CET 2026"
}

PLAY RECAP ****
web1 : ok=5    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
web2 : ok=5    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```