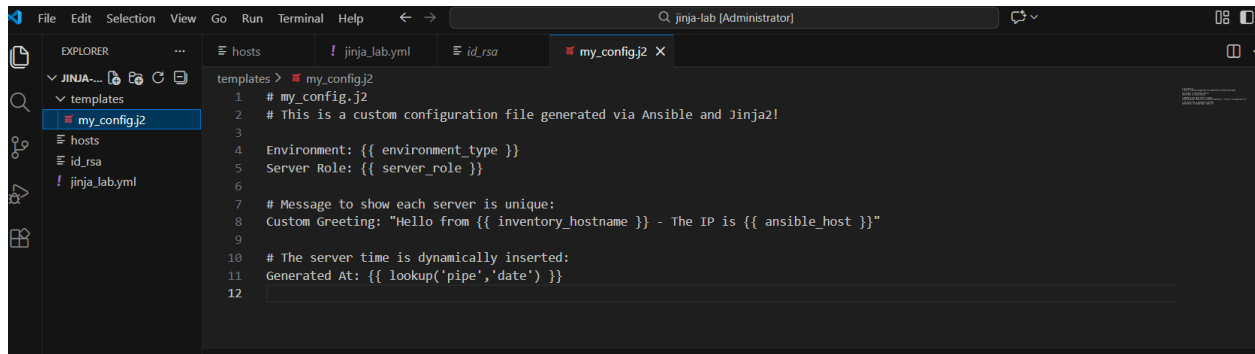


LAB | Setup remote servers with Ansible & J2

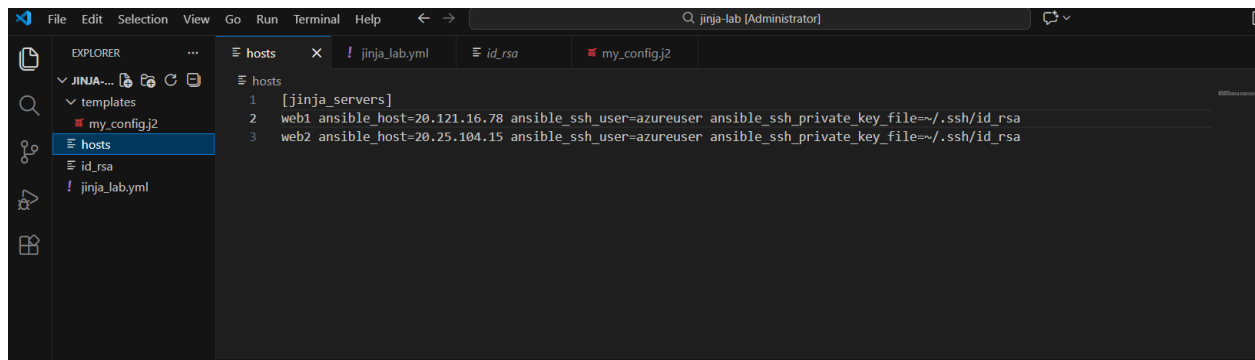
Template



The screenshot shows the Visual Studio Code editor with the file explorer on the left. The file explorer shows a project named 'JINJA-LAB' with a 'templates' folder containing 'my_configj2'. The main editor window displays the content of 'my_configj2'.

```
1 # my_configj2
2 # This is a custom configuration file generated via Ansible and Jinja2!
3
4 Environment: {{ environment_type }}
5 Server Role: {{ server_role }}
6
7 # Message to show each server is unique:
8 Custom Greeting: "Hello from {{ inventory_hostname }} - The IP is {{ ansible_host }}"
9
10 # The server time is dynamically inserted:
11 Generated At: {{ lookup('pipe','date') }}
12
```

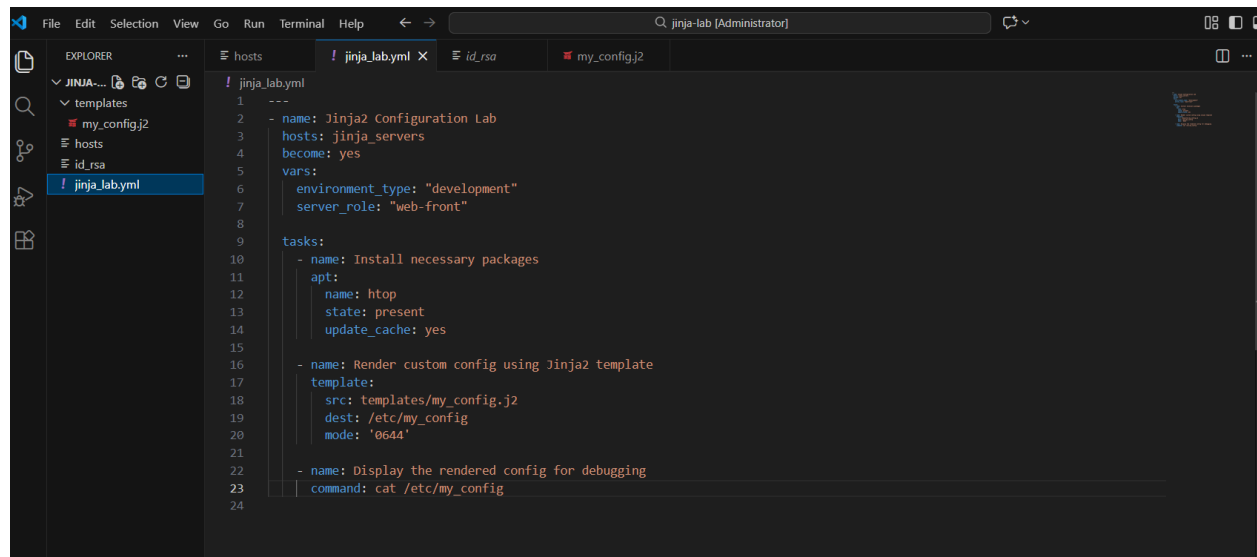
hosts



The screenshot shows the Visual Studio Code editor with the file explorer on the left. The file explorer shows a project named 'JINJA-LAB' with a 'hosts' file. The main editor window displays the content of 'hosts'.

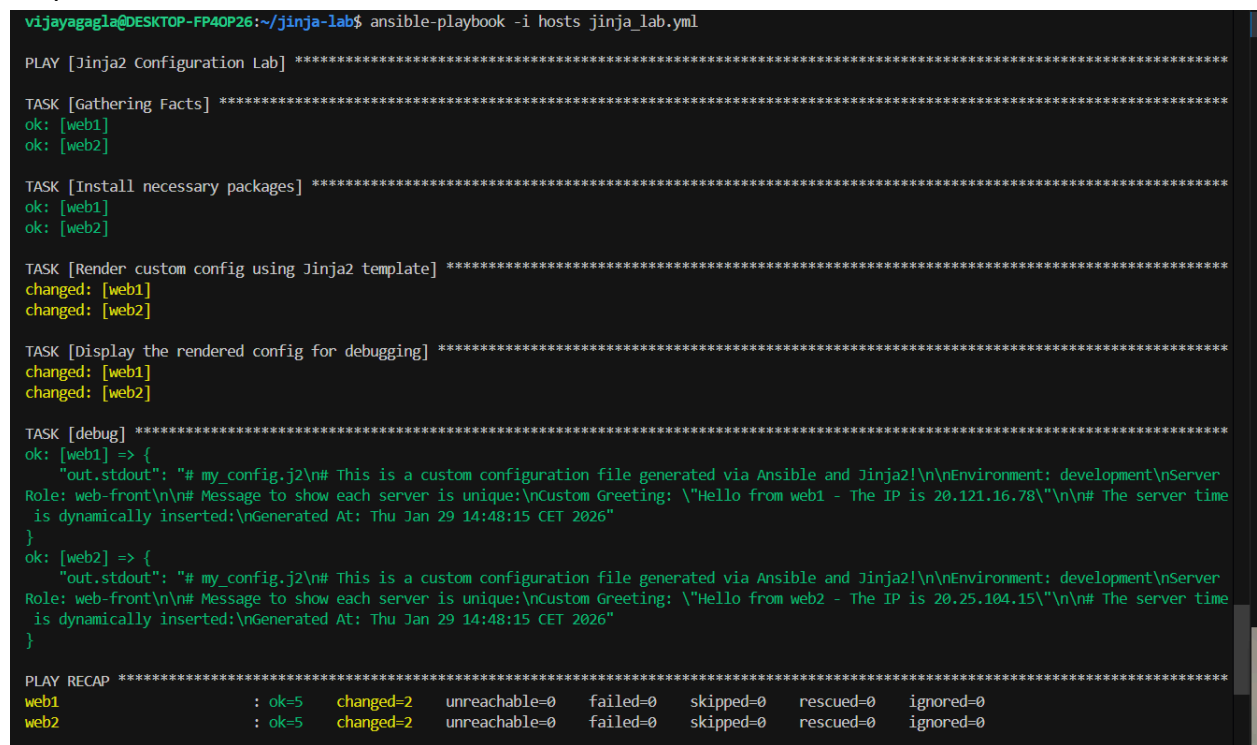
```
1 [jinja_servers]
2 web1 ansible_host=20.121.16.78 ansible_ssh_user=azureuser ansible_ssh_private_key_file=~/.ssh/id_rsa
3 web2 ansible_host=20.25.104.15 ansible_ssh_user=azureuser ansible_ssh_private_key_file=~/.ssh/id_rsa
```

Playbook



```
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: httpd
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



```
vijayagaglia@DESKTOP-FP40P26:~/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
```