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ASSIGNMENT 6

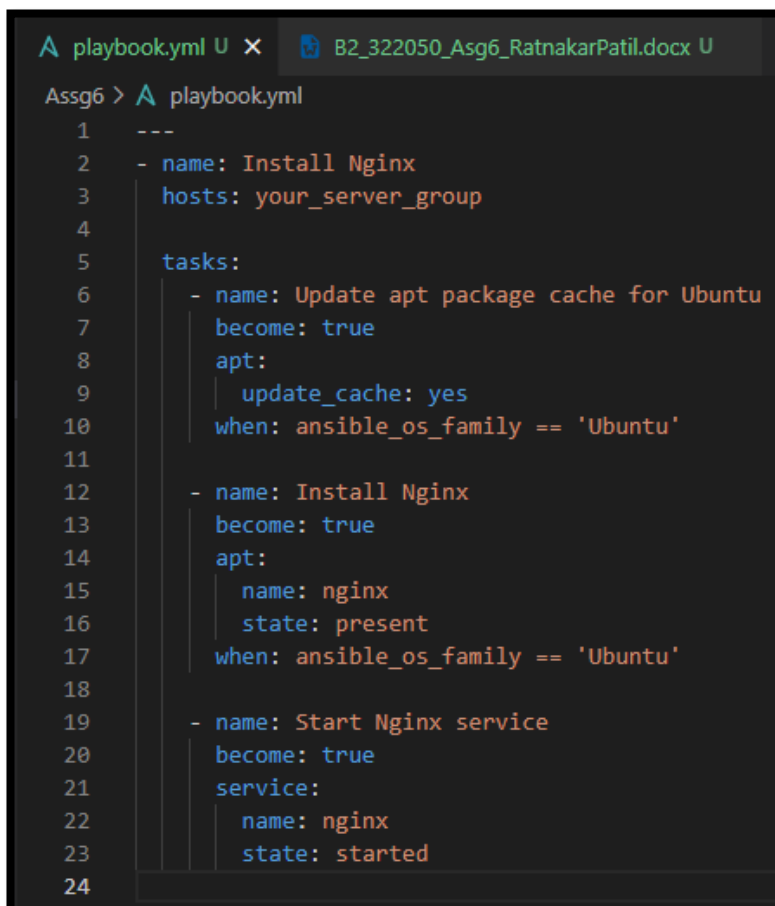
1. What is YAML?

YAML (YAML Ain't Markup Language) is a human-readable data serialization format commonly used for configuration files and structured data. It's often used in software applications where data needs to be stored or transmitted in a format that is easy for both humans and machines to read and write. YAML uses indentation to represent data hierarchy and supports various data types such as scalars, lists, and associative arrays.

2. What is Ansible?

Ansible is an open-source automation platform that simplifies IT orchestration, configuration management, and application deployment. It allows users to automate repetitive tasks such as provisioning servers, deploying applications, configuring network devices, and managing infrastructure. Ansible uses a simple, human-readable language called YAML for its configuration files, making it easy to understand and maintain. It follows a "push-based" model, where the controlling machine (called the Ansible control node) pushes configurations and commands to remote machines (called managed nodes) via SSH, eliminating the need for agents to be installed on the managed nodes.

Task: write an ansible-playbook to install nginx on servers.



```
Assg6 > A playbook.yml
1  ---
2  - name: Install Nginx
3    hosts: your_server_group
4
5    tasks:
6      - name: Update apt package cache for Ubuntu
7        become: true
8        apt:
9          update_cache: yes
10       when: ansible_os_family == 'Ubuntu'
11
12      - name: Install Nginx
13        become: true
14        apt:
15          name: nginx
16          state: present
17       when: ansible_os_family == 'Ubuntu'
18
19      - name: Start Nginx service
20        become: true
21        service:
22          name: nginx
23          state: started
24
```