**Objective**: Configure a simple web server on a target node using Ansible.

**Requirements**:

1. Control node with Ansible installed.
2. Access to a target node (virtual machine, container, or server) where you'll configure the web server.
3. SSH access to the target node from the control node.

**Steps**:

1. **Set Up Your Environment**:
   * Install Ansible on your control node if you haven't already.
   * Ensure SSH access from the control node to the target node. You should be able to SSH into the target node without requiring a password.
2. **Create an Inventory File**:
   * Create an inventory file named **hosts** on your control node. Add the IP address or hostname of your target node to the file. For example:

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[web\_servers] target\_node\_ip

1. **Write a Playbook**:
   * Create a playbook file named **web\_server.yml**. This playbook will define tasks to install and configure a simple web server (e.g., Nginx) on the target node.
   * Write tasks to install the Nginx package, start the Nginx service, and ensure that it's enabled to start on boot. Here's an example playbook:

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--- - name: Configure Web Server hosts: web\_servers become: yes tasks: - name: Install Nginx apt: name: nginx state: present become: yes - name: Start Nginx Service service: name: nginx state: started enabled: yes

1. **Run the Playbook**:
   * Execute the playbook using the **ansible-playbook** command-line tool:

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ansible-playbook -i hosts web\_server.yml

1. **Verify**:
   * SSH into the target node and verify that Nginx is installed, running, and accessible.
   * You can use a web browser or tools like **curl** or **wget** to access the default Nginx welcome page.
2. **Cleanup**:
   * Once you're done experimenting, you can remove the Nginx package from the target node using Ansible.

**Notes**:

* Ensure that you have appropriate permissions and access rights to execute commands on the target node.
* Customize the playbook according to your requirements. You can add more tasks to configure additional settings or deploy applications.
* Explore Ansible's documentation and modules to learn more about its capabilities and features.

By completing this exercise, you'll gain hands-on experience with Ansible and understand the basics of using Ansible playbooks to automate infrastructure configuration and management.

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