**5. ansible playbook**

**Nginx-playbook-local**

--- cat nginx-plabook-local.yml

---

  - name: Play for Install Nginx on WebServers

    hosts: webservers:appservers

    gather\_facts: yes #yes or no

    become: yes

    become\_user: root

    tasks:

       - name: Run Apt Update

         shell: apt update

       - name: Install Nginx Server

         apt: >

           name=nginx

           state=present

       - name: Copy the files to index destination folder.

         copy: >

            src=/root/terraform/Ansible-Notes/static-website/index.html

            dest=/var/www/html/index.nginx-debian.html

            owner=root

            group=root

            mode=0644

       - name: Copy the style files to  destination folder.

         copy: >

            src=/root/terraform/Ansible-Notes/static-website/style.css

            dest=/var/www/html/style.css

            owner=root

            group=root

            mode=0644

       - name: Copy the javascript files to  destination folder.

         copy: >

            src=/root/terraform/Ansible-Notes/static-website/scorekeeper.js

            dest=/var/www/html/scorekeeper.js

            owner=root

            group=root

            mode=0644

       - name: restart nginx

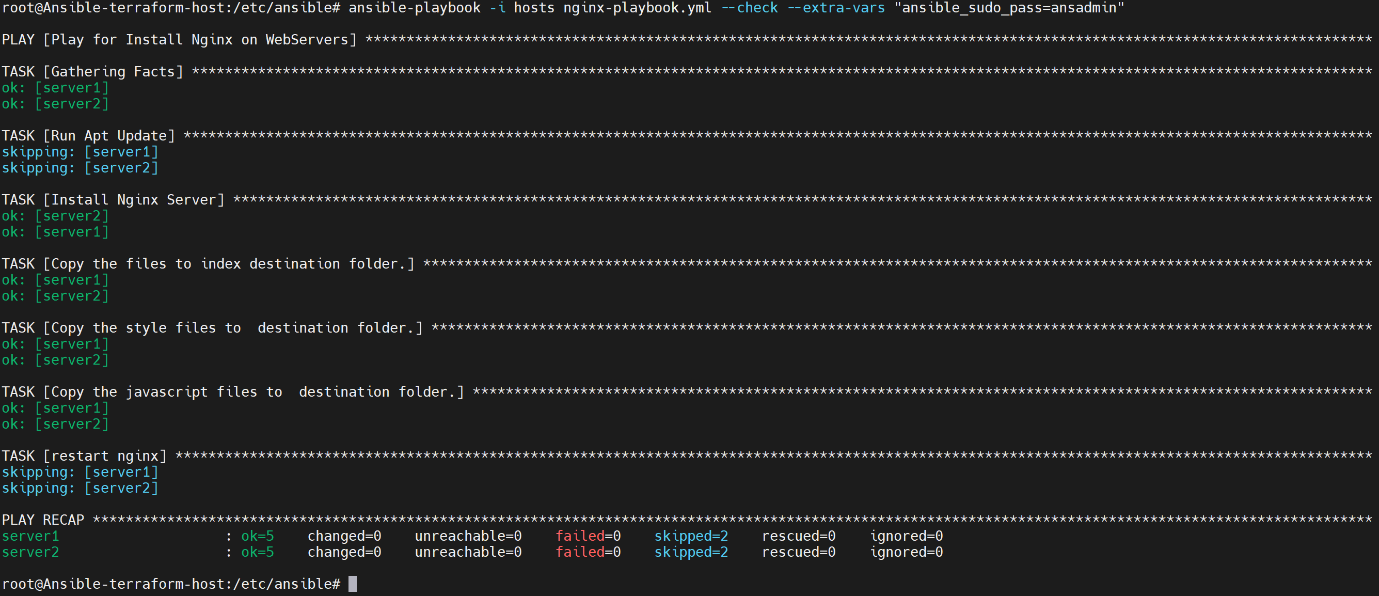
         command: service nginx restart

**# Check the syntax of the playbook**

--- ansible-playbook -i hosts nginx-playbook.yml --syntax-check

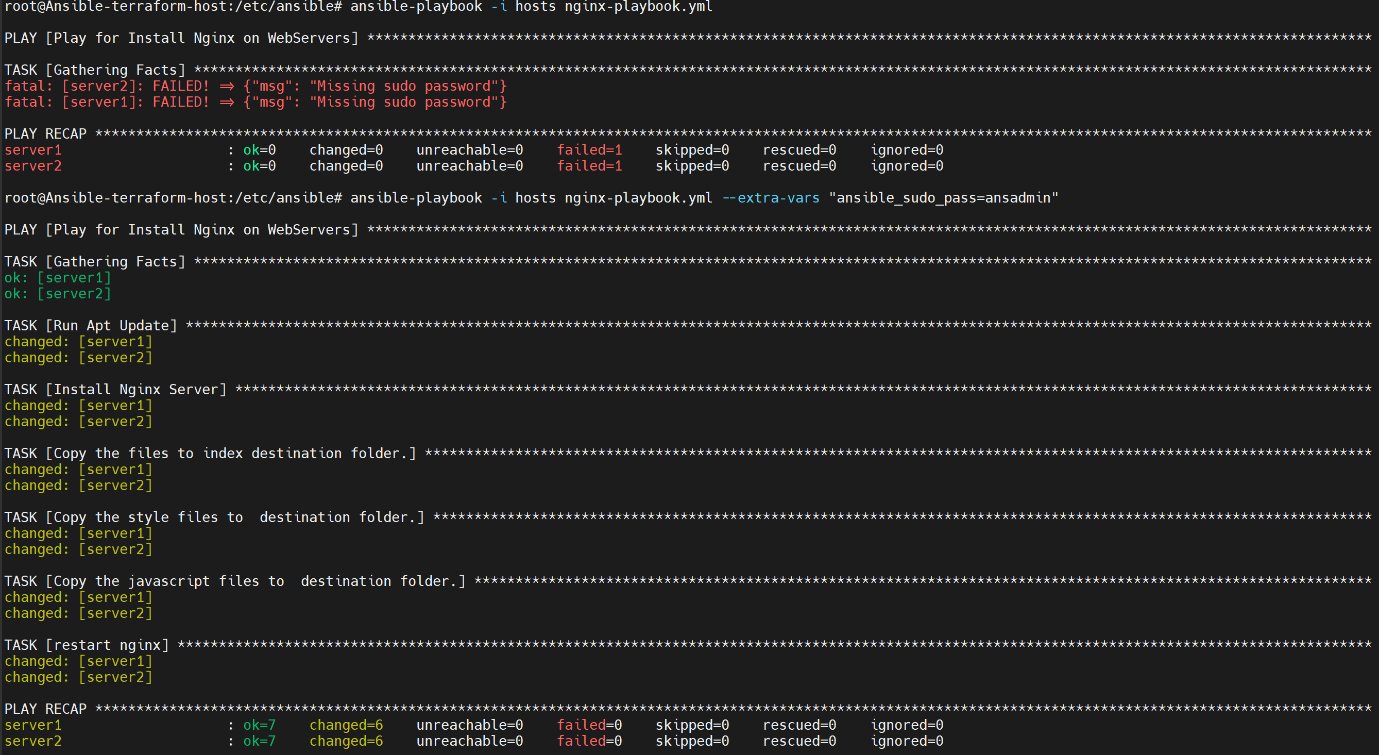
**# Dry run**

--- ansible-playbook -i hosts nginx-playbook.yml --check --extra-vars "ansible\_sudo\_pass=ansadmin"



**# Execute the ansible playbook**

--- ansible-playbook -i hosts nginx-playbook.yml --extra-vars "ansible\_sudo\_pass=ansadmin"



**Nginx-playbook-remote**

--- **scenario** – git repo cloned in remote machines and project files copied from repo to remote servers’ destination and finally repo will be deleted.

--- cat nginx-playbook-remote.yml

---

  - name: Play for Install Nginx on WebServers

    hosts: webservers:appservers:dbservers

    gather\_facts: yes #yes or no

    become: yes

    become\_user: root

    #serial: 1 #Executes the playbook one host at a time.

    pre\_tasks:

    - name: Adding Delay for 15 seconds

      wait\_for:

        timeout: 20

    tasks:

       - name: Run Apt Update

         shell: apt update

         tags:

           - update

       - name: Clone Git Repo

         shell: cd /tmp && git clone git@github.com:DevOps-Harsha/Ansible-Notes.git

         tags:

           - clone

       - name: Install Nginx Server

         apt: >

           name=nginx

           state=present

         tags:

           - install

       - name: Copy the files to index destination folder.

         copy: >

            src=/tmp/Ansible-Notes/static-website/index.html

            dest=/var/www/html/index.nginx-debian.html

            remote\_src=yes

            owner=root

            group=root

            mode=0644

         ignore\_errors: yes #Will Proceed to next task even it failed.

         tags:

           - index

       - name: Copy the style files to  destination folder.

         copy: >

            src=/tmp/Ansible-Notes/static-website/style.css

            dest=/var/www/html/style.css

            remote\_src=yes

            owner=root

            group=root

            mode=0644

         tags:

           - style

       - name: Copy the javascript files to  destination folder.

         copy: >

            src=/tmp/Ansible-Notes/static-website/scorekeeper.js

            dest=/var/www/html/scorekeeper.js

            remote\_src=yes

            owner=root

            group=root

            mode=0644

         tags:

           - js

       - name: restart nginx

         command: service nginx restart

         tags:

          - restart

       - name: Delete Git Repo

         shell: rm -rf /tmp/Ansible-Notes

         tags:

          - delete

**# Execute the playbook**

--- ansible-playbook -i hosts nginx-playbook-remote.yml --extra-vars "ansible\_sudo\_pass=ansadmin"

--- **pre\_tasks** – before main task, this task will be executed.

--- **serial: 1** - Executes the playbook one host at a time.

--- **remote\_src=yes** – source files also present in remote server. You want to notify the ansible that the source file also presents in remote server then you need to give this parameter.

**Uninstall nginx**

--- cat nginx-uninstall.yml

---

  - name: Play for Install Nginx on WebServers

    hosts: webservers:appservers

    gather\_facts: yes #yes or no

    become: yes

    become\_user: root

    tasks:

       - name: stop nginx

         service:

             name: nginx

             state: stopped

       - name: ensure nginx is not installed

         apt: name=nginx state=absent

**# Remove nginx**

--- ansible-playbook -i hosts nginx-uninstall.yml --extra-vars "ansible\_sudo\_pass=ansadmin"