```
Last login: Mon Jan  9 13:38:48 on ttys000
vinitraj@VINITs-MacBook-Pro ~ % ssh -i "test.pem" ec2-user@ec2-65-0-105-215.ap-s
outh-1.compute.amazonaws.com
Warning: Identity file test.pem not accessible: No such file or directory.
ec2-user@ec2-65-0-105-215.ap-south-1.compute.amazonaws.com: Permission denied (p
ublickey,gssapi-keyex,gssapi-with-mic).
vinitraj@VINITs-MacBook-Pro ~ % cd Downloads
vinitraj@VINITs-MacBook-Pro Downloads % ssh -i "test.pem" ec2-user@ec2-65-0-105-
215.ap-south-1.compute.amazonaws.com
vinitraj@VINITs-MacBook-Pro Downloads % ssh -i "test.pem" ec2-user@ec2-65-0-105-
215.ap-south-1.compute.amazonaws.com
Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
Last login: Mon Jan  9 08:47:06 2023 from 157.35.14.122
[ec2-user@ip-172-31-8-90 ~]$ cd code
-bash: cd: code: No such file or directory
[ec2-user@ip-172-31-8-90 ~]$ ls
[ec2-user@ip-172-31-8-90 ~]$ ls
[ec2-user@ip-172-31-8-90 ~]$ cd
[ec2-user@ip-172-31-8-90 ~]$ cd
[ec2-user@ip-172-31-8-90 ~]$ cd
[ec2-user@ip-172-31-8-90 ~]$ sudo su -
Last login: Mon Jan  9 08:47:10 UTC 2023 on pts/1
[root@ip-172-31-8-90 ~]# ls
code
[root@ip-172-31-8-90 ~]# cd code
[root@ip-172-31-8-90 code]# ls
vinit.html  web.yml
[root@ip-172-31-8-90 code]# cat>vinit.html
I am using Ansible and this is the website which will be copied in my host node.
^C
[root@ip-172-31-8-90 code]# cat vinit.html
[root@ip-172-31-8-90 code]# vim vinit.html
[root@ip-172-31-8-90 code]# cat vinit.html
I am using Ansible and this is the website which will be copied in my host node.
[root@ip-172-31-8-90 code]# vim web.yml
[root@ip-172-31-8-90 code]# ansoble-playbook --syntax-check web.yml
-bash: ansoble-playbook: command not found
[root@ip-172-31-8-90 code]# ansible-playbook --syntax-check web.yml
ERROR! We were unable to read either as JSON nor YAML, these are the errors we g
ot from each:
JSON: Expecting value: line 1 column 1 (char 0)

Syntax Error while loading YAML.
  found unacceptable key (unhashable type: 'AnsibleMapping')

The error appears to be in '/root/code/web.yml': line 8, column 15, but may
be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:

    - package:
```

```
       name: {{ packageName  }}
             ^ here
We could be wrong, but this one looks like it might be an issue with
missing quotes. Always quote template expression brackets when they
start a value. For instance:

    with_items:
      - {{ foo }}

Should be written as:

    with_items:
      - "{{ foo }}"
[root@ip-172-31-8-90 code]# vim web.yml
[root@ip-172-31-8-90 code]# ansible-playbook --syntax-check web.yml

playbook: web.yml
[root@ip-172-31-8-90 code]# vim unin.yml
[root@ip-172-31-8-90 code]# ansible-playbook --syntax-check unin.yml
ERROR! 'package' is not a valid attribute for a Play

The error appears to be in '/root/code/unin.yml': line 1, column 3, but may
be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:


- hosts: all
  ^ here
[root@ip-172-31-8-90 code]# vim unin.yml
[root@ip-172-31-8-90 code]# ansible-playbook --syntax-check unin.yml
ERROR! We were unable to read either as JSON nor YAML, these are the errors we g
ot from each:
JSON: Expecting value: line 1 column 1 (char 0)

Syntax Error while loading YAML.
  could not find expected ':'

The error appears to be in '/root/code/unin.yml': line 3, column 13, but may
be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:

  tasks
   - package: "name=httpd state=absent"
             ^ here
[root@ip-172-31-8-90 code]# vim unin.yml
[root@ip-172-31-8-90 code]# ansible-playbook --syntax-check unin.yml

playbook: unin.yml
[root@ip-172-31-8-90 code]# ansible-playbook unin.yml
```

```
PLAY [all] *********************************************************************

TASK [Gathering Facts] *********************************************************
ok: [3.110.135.1]

TASK [package] *****************************************************************
changed: [3.110.135.1]

PLAY RECAP *********************************************************************
3.110.135.1                : ok=2    changed=1    unreachable=0    failed=0    s
kipped=0    rescued=0    ignored=0

[root@ip-172-31-8-90 code]# echo "Uninstalled httpd fro previously installed nod
e."
Uninstalled httpd fro previously installed node.
[root@ip-172-31-8-90 code]# ansible-playbook web.yml.yml
ERROR! the playbook: web.yml.yml could not be found
[root@ip-172-31-8-90 code]# ansible-playbook web.yml

PLAY [all] *********************************************************************

TASK [Gathering Facts] *********************************************************
ok: [3.110.135.1]

TASK [package] *****************************************************************
changed: [3.110.135.1]

TASK [copy] ********************************************************************
changed: [3.110.135.1]

TASK [service] *****************************************************************
changed: [3.110.135.1]

PLAY RECAP *********************************************************************
3.110.135.1                : ok=4    changed=3    unreachable=0    failed=0    s
kipped=0    rescued=0    ignored=0

[root@ip-172-31-8-90 code]# curl 3.110.135.1/vinit.html
I am using Ansible and this is the website which will be copied in my host node.
[root@ip-172-31-8-90 code]# ansible-playbook unin.yml

PLAY [all] *********************************************************************

TASK [Gathering Facts] *********************************************************
ok: [3.110.135.1]

TASK [package] *****************************************************************
changed: [3.110.135.1]

PLAY RECAP *********************************************************************
3.110.135.1                : ok=2    changed=1    unreachable=0    failed=0    s
kipped=0    rescued=0    ignored=0
```

```
[root@ip-172-31-8-90 code]# vim web.yml
[root@ip-172-31-8-90 code]# ansible-playbook --syntax-checker web.yml
usage: ansible-playbook [-h] [--version] [-v] [--private-key PRIVATE_KEY_FILE]
                        [-u REMOTE_USER] [-c CONNECTION] [-T TIMEOUT]
                        [--ssh-common-args SSH_COMMON_ARGS]
                        [--sftp-extra-args SFTP_EXTRA_ARGS]
                        [--scp-extra-args SCP_EXTRA_ARGS]
                        [--ssh-extra-args SSH_EXTRA_ARGS]
                        [-k | --connection-password-file CONNECTION_PASSWORD_FIL
E]
                        [--force-handlers] [--flush-cache] [-b]
                        [--become-method BECOME_METHOD]
                        [--become-user BECOME_USER]
                        [-K | --become-password-file BECOME_PASSWORD_FILE]
                        [-t TAGS] [--skip-tags SKIP_TAGS] [-C]
                        [--syntax-check] [-D] [-i INVENTORY] [--list-hosts]
                        [-l SUBSET] [-e EXTRA_VARS] [--vault-id VAULT_IDS]
                        [--ask-vault-password | --vault-password-file VAULT_PASS
WORD_FILES]
                        [-f FORKS] [-M MODULE_PATH] [--list-tasks]
                        [--list-tags] [--step] [--start-at-task START_AT_TASK]
                        playbook [playbook ...]
ansible-playbook: error: unrecognized arguments: --syntax-checker

usage: ansible-playbook [-h] [--version] [-v] [--private-key PRIVATE_KEY_FILE]
                        [-u REMOTE_USER] [-c CONNECTION] [-T TIMEOUT]
                        [--ssh-common-args SSH_COMMON_ARGS]
                        [--sftp-extra-args SFTP_EXTRA_ARGS]
                        [--scp-extra-args SCP_EXTRA_ARGS]
                        [--ssh-extra-args SSH_EXTRA_ARGS]
                        [-k | --connection-password-file CONNECTION_PASSWORD_FIL
E]
                        [--force-handlers] [--flush-cache] [-b]
                        [--become-method BECOME_METHOD]
                        [--become-user BECOME_USER]
                        [-K | --become-password-file BECOME_PASSWORD_FILE]
                        [-t TAGS] [--skip-tags SKIP_TAGS] [-C]
                        [--syntax-check] [-D] [-i INVENTORY] [--list-hosts]
                        [-l SUBSET] [-e EXTRA_VARS] [--vault-id VAULT_IDS]
                        [--ask-vault-password | --vault-password-file VAULT_PASS
WORD_FILES]
                        [-f FORKS] [-M MODULE_PATH] [--list-tasks]
                        [--list-tags] [--step] [--start-at-task START_AT_TASK]
                        playbook [playbook ...]

Runs Ansible playbooks, executing the defined tasks on the targeted hosts.

positional arguments:
  playbook              Playbook(s)

optional arguments:
```

```
  --ask-vault-password, --ask-vault-pass
                        ask for vault password
  --become-password-file BECOME_PASSWORD_FILE, --become-pass-file BECOME_PASSWOR
D_FILE
                        Become password file
  --connection-password-file CONNECTION_PASSWORD_FILE, --conn-pass-file CONNECTI
ON_PASSWORD_FILE
                        Connection password file
  --flush-cache         clear the fact cache for every host in inventory
  --force-handlers      run handlers even if a task fails
  --list-hosts          outputs a list of matching hosts; does not execute
                        anything else
  --list-tags           list all available tags
  --list-tasks          list all tasks that would be executed
  --skip-tags SKIP_TAGS
                        only run plays and tasks whose tags do not match these
                        values
  --start-at-task START_AT_TASK
                        start the playbook at the task matching this name
  --step                one-step-at-a-time: confirm each task before running
  --syntax-check        perform a syntax check on the playbook, but do not
                        execute it
  --vault-id VAULT_IDS  the vault identity to use
  --vault-password-file VAULT_PASSWORD_FILES, --vault-pass-file VAULT_PASSWORD_F
ILES
                        vault password file
  --version             show program's version number, config file location,
                        configured module search path, module location,
                        executable location and exit
  -C, --check           don't make any changes; instead, try to predict some
                        of the changes that may occur
  -D, --diff            when changing (small) files and templates, show the
                        differences in those files; works great with --check
  -K, --ask-become-pass
                        ask for privilege escalation password
  -M MODULE_PATH, --module-path MODULE_PATH
                        prepend colon-separated path(s) to module library (def
                        ault=~/.ansible/plugins/modules:/usr/share/ansible/plu
                        gins/modules)
  -e EXTRA_VARS, --extra-vars EXTRA_VARS
                        set additional variables as key=value or YAML/JSON, if
                        filename prepend with @
  -f FORKS, --forks FORKS
                        specify number of parallel processes to use
                        (default=5)
  -h, --help            show this help message and exit
  -i INVENTORY, --inventory INVENTORY, --inventory-file INVENTORY
                        specify inventory host path or comma separated host
                        list. --inventory-file is deprecated
  -k, --ask-pass        ask for connection password
  -l SUBSET, --limit SUBSET
                        further limit selected hosts to an additional pattern
```

```
  -t TAGS, --tags TAGS  only run plays and tasks tagged with these values
  -v, --verbose         Causes Ansible to print more debug messages. Adding
                        multiple -v will increase the verbosity, the builtin
                        plugins currently evaluate up to -vvvvvv. A reasonable
                        level to start is -vvv, connection debugging might
                        require -vvvv.

Connection Options:
  control as whom and how to connect to hosts

  --private-key PRIVATE_KEY_FILE, --key-file PRIVATE_KEY_FILE
                        use this file to authenticate the connection
  --scp-extra-args SCP_EXTRA_ARGS
                        specify extra arguments to pass to scp only (e.g. -l)
  --sftp-extra-args SFTP_EXTRA_ARGS
                        specify extra arguments to pass to sftp only (e.g. -f,
                        -l)
  --ssh-common-args SSH_COMMON_ARGS
                        specify common arguments to pass to sftp/scp/ssh (e.g.
                        ProxyCommand)
  --ssh-extra-args SSH_EXTRA_ARGS
                        specify extra arguments to pass to ssh only (e.g. -R)
  -T TIMEOUT, --timeout TIMEOUT
                        override the connection timeout in seconds
                        (default=10)
  -c CONNECTION, --connection CONNECTION
                        connection type to use (default=smart)
  -u REMOTE_USER, --user REMOTE_USER
                        connect as this user (default=None)

Privilege Escalation Options:
  control how and which user you become as on target hosts

  --become-method BECOME_METHOD
                        privilege escalation method to use (default=sudo), use
                        `ansible-doc -t become -l` to list valid choices.
  --become-user BECOME_USER
                        run operations as this user (default=root)
  -b, --become          run operations with become (does not imply password
                        prompting)
[root@ip-172-31-8-90 code]# ansible-playbook --syntax-check web.yml

playbook: web.yml
[root@ip-172-31-8-90 code]# cat web.yml
- hosts: all
  vars:
    - webPage: "vinit.html"
    - packageName: "httpd"
    - documentDir: "/var/www/vinit"
  tasks:
    - name: Install HTTPD package
      package:
```

```
       name: "{{ packageName  }}"
       state: present
    - name: Create directory of your choice (/var/www/vinit/)
      file:
        state: diretory
        path: "{{ documentDir }}"
    - name: Creating and setting up my configuration file (my.conf) to change th
e default document directory"
      copy:
        dest: "/etc/httpd/conf.d/my.conf"
        content: "DocumentRoot {{ documentDir}} \n"

    - name: Deploy webpage in desired location (/var/www/vinit)
      copy:
       src: "{{ webPage  }}"
       dest: "{{ documentDir  }}"
    - name: Reload and enable the httpd services
      service:
       name: "{{ packageName  }}"
       state: reloaded
       enabled: true
    - name: We will now try debug feature which basically prints on screen.
      debug:
        msg: "copy command is used for two functionalities: to copy and to creat
e a new file or directory. To see the package names we should use Google or chat
GPT. And lastly, we should use name tags, it keeps showing what exactly Ansible
is doing in real time."
[root@ip-172-31-8-90 code]# ansible-playbook^Ceb.yml
[root@ip-172-31-8-90 code]# ls
unin.yml  vinit.html  web.yml
[root@ip-172-31-8-90 code]# vim vinit.html
[root@ip-172-31-8-90 code]# ansible-playbook web.yml

PLAY [all] *********************************************************************

TASK [Gathering Facts] *********************************************************
ok: [3.110.135.1]

TASK [Install HTTPD package] ***************************************************
changed: [3.110.135.1]

TASK [Create directory of your choice (/var/www/vinit/)] ***********************
fatal: [3.110.135.1]: FAILED! => {"changed": false, "msg": "value of state must
be one of: absent, directory, file, hard, link, touch, got: diretory"}

PLAY RECAP *********************************************************************
3.110.135.1                : ok=2    changed=1    unreachable=0    failed=1    s
kipped=0    rescued=0    ignored=0

[root@ip-172-31-8-90 code]# vim vinit.html
[root@ip-172-31-8-90 code]# cat web.yml
- hosts: all
```

```
  vars:
    - webPage: "vinit.html"
    - packageName: "httpd"
    - documentDir: "/var/www/vinit"
  tasks:
    - name: Install HTTPD package
      package:
       name: "{{ packageName  }}"
       state: present
    - name: Create directory of your choice (/var/www/vinit/)
      file:
        state: diretory
        path: "{{ documentDir }}"
    - name: Creating and setting up my configuration file (my.conf) to change th
e default document directory"
      copy:
        dest: "/etc/httpd/conf.d/my.conf"
        content: "DocumentRoot {{ documentDir}} \n"

    - name: Deploy webpage in desired location (/var/www/vinit)
      copy:
       src: "{{ webPage  }}"
       dest: "{{ documentDir  }}"
    - name: Reload and enable the httpd services
      service:
       name: "{{ packageName  }}"
       state: reloaded
       enabled: true
    - name: We will now try debug feature which basically prints on screen.
      debug:
        msg: "copy command is used for two functionalities: to copy and to creat
e a new file or directory. To see the package names we should use Google or chat
GPT. And lastly, we should use name tags, it keeps showing what exactly Ansible
is doing in real time."
[root@ip-172-31-8-90 code]# cim web.yml
-bash: cim: command not found
[root@ip-172-31-8-90 code]# vim web.yml
[root@ip-172-31-8-90 code]# cat web.yml
- hosts: all
  vars:
    - webPage: "vinit.html"
    - packageName: "httpd"
    - documentDir: "/var/www/vinit"
  tasks:
    - name: Install HTTPD package
      package:
       name: "{{ packageName  }}"
       state: present
    - name: Create directory of your choice (/var/www/vinit/)
      file:
        state: directory
        path: "{{ documentDir }}"
```

```
    - name: Creating and setting up my configuration file (my.conf) to change th
e default document directory"
      copy:
        dest: "/etc/httpd/conf.d/my.conf"
        content: "DocumentRoot {{ documentDir}} \n"

    - name: Deploy webpage in desired location (/var/www/vinit)
      copy:
       src: "{{ webPage  }}"
       dest: "{{ documentDir  }}"
    - name: Reload and enable the httpd services
      service:
       name: "{{ packageName  }}"
       state: reloaded
       enabled: true
    - name: We will now try debug feature which basically prints on screen.
      debug:
        msg: "copy command is used for two functionalities: to copy and to creat
e a new file or directory. To see the package names we should use Google or chat
GPT. And lastly, we should use name tags, it keeps showing what exactly Ansible
is doing in real time."
[root@ip-172-31-8-90 code]# cat web.yml
- hosts: all
  vars:
    - webPage: "vinit.html"
    - packageName: "httpd"
    - documentDir: "/var/www/vinit"
  tasks:
    - name: Install HTTPD package
      package:
       name: "{{ packageName  }}"
       state: present
    - name: Create directory of your choice (/var/www/vinit/)
      file:
        state: directory
        path: "{{ documentDir }}"
    - name: Creating and setting up my configuration file (my.conf) to change th
e default document directory"
      copy:
        dest: "/etc/httpd/conf.d/my.conf"
        content: "DocumentRoot {{ documentDir}} \n"

    - name: Deploy webpage in desired location (/var/www/vinit)
      copy:
       src: "{{ webPage  }}"
       dest: "{{ documentDir  }}"
    - name: Reload and enable the httpd services
      service:
       name: "{{ packageName  }}"
       state: reloaded
       enabled: true
    - name: We will now try debug feature which basically prints on screen.
```

```
      debug:
        msg: "copy command is used for two functionalities: to copy and to creat
e a new file or directory. To see the package names we should use Google or chat
GPT. And lastly, we should use name tags, it keeps showing what exactly Ansible
is doing in real time."
[root@ip-172-31-8-90 code]# ansible-playbook unin.yml

PLAY [all] *********************************************************************

TASK [Gathering Facts] *********************************************************
ok: [3.110.135.1]

TASK [package] *****************************************************************
changed: [3.110.135.1]

PLAY RECAP *********************************************************************
3.110.135.1                : ok=2    changed=1    unreachable=0    failed=0    s
kipped=0    rescued=0    ignored=0

[root@ip-172-31-8-90 code]# ansible-playbook web.yml

PLAY [all] *********************************************************************

TASK [Gathering Facts] *********************************************************
ok: [3.110.135.1]

TASK [Install HTTPD package] ***************************************************
changed: [3.110.135.1]

TASK [Create directory of your choice (/var/www/vinit/)] ***********************
changed: [3.110.135.1]

TASK [Creating and setting up my configuration file (my.conf) to change the defa
ult document directory"] ***
changed: [3.110.135.1]

TASK [Deploy webpage in desired location (/var/www/vinit)] *********************
changed: [3.110.135.1]

TASK [Reload and enable the httpd services] ************************************
changed: [3.110.135.1]

TASK [We will now try debug feature which basically prints on screen.] *********
ok: [3.110.135.1] => {
    "msg": "copy command is used for two functionalities: to copy and to create
a new file or directory. To see the package names we should use Google or chatGP
T. And lastly, we should use name tags, it keeps showing what exactly Ansible is
 doing in real time."
}

PLAY RECAP *********************************************************************
3.110.135.1                : ok=7    changed=5    unreachable=0    failed=0    s
```

```
kipped=0    rescued=0    ignored=0

[root@ip-172-31-8-90 code]# curl 3.110.135.1/vinit.html
I am using Ansible and this is the NEW AND LATEST website which will be copied i
n my host node.
[root@ip-172-31-8-90 code]# ssh root@3.110.135.1
root@3.110.135.1's password:
Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
Last login: Mon Jan  9 09:34:12 2023 from 65.0.105.215
[root@ip-172-31-14-255 ~]# cd /var/www/html
[root@ip-172-31-14-255 html]# ls
vinit.html
[root@ip-172-31-14-255 html]# cat vinit.html
I am using Ansible and this is the website which will be copied in my host node.
[root@ip-172-31-14-255 html]# cd
[root@ip-172-31-14-255 ~]# cd
[root@ip-172-31-14-255 ~]# cd
[root@ip-172-31-14-255 ~]# cd
[root@ip-172-31-14-255 ~]# cd
[root@ip-172-31-14-255 ~]# cd /var/www/vinit
[root@ip-172-31-14-255 vinit]# ls
vinit.html
[root@ip-172-31-14-255 vinit]# cat vinit.html
I am using Ansible and this is the NEW AND LATEST website which will be copied i
n my host node.
[root@ip-172-31-14-255 vinit]# cs
-bash: cs: command not found
[root@ip-172-31-14-255 vinit]# cd
[root@ip-172-31-14-255 ~]# cd
[root@ip-172-31-14-255 ~]# cd
[root@ip-172-31-14-255 ~]# cd /etc/httpd/
[root@ip-172-31-14-255 httpd]# ls
conf  conf.d  conf.modules.d  logs  modules  run  state
[root@ip-172-31-14-255 httpd]# cd conf.d
[root@ip-172-31-14-255 conf.d]# ls
autoindex.conf  my.conf  README  userdir.conf  welcome.conf
[root@ip-172-31-14-255 conf.d]# logout
Connection to 3.110.135.1 closed.
[root@ip-172-31-8-90 code]# logout
[ec2-user@ip-172-31-8-90 ~]$ logout
Connection to ec2-65-0-105-215.ap-south-1.compute.amazonaws.com closed.
vinitraj@VINITs-MacBook-Pro Downloads %
```