1. Ansible sibelius - Try It Out-conditional (when clause)

In this scenario, you have to create a directory "test" at /home/user using ansible-adhoc command. Don't use any playbook.

Tasks to be done:

- Create a file named simplefile.txt
- write a task in the main.yml file in present in fresco_when\tasks folder.
- the task is to move the created simplefile.txt file to created directory i.e move the create file to /home/user/test folder.
- move only if the file doesn't exists. using when in playbook

Note:

- Run project ->install to install ansible.
- · mainplaybook.yml file is provided to ansible-playbook.
- · Use the localhost for the inventory for ansible-playbook.

In this scenario, you have to create a directory "test" at /home/user using ansible-adhoc command. Don't use any playbook.

```
user@workspacew9as5z00akhb7drn:~$ ansible localhost -m file -a 'path=/home/user/test state=directory'
[DEPRECATION WARNING]: Distribution Ubuntu 16.04 on host localhost should use
/usr/bin/python3, but is using /usr/bin/python for backward compatibility with
prior Ansible releases. A future Ansible release will default to using the
discovered platform python for this host. See https://docs.ansible.com/ansible/
2.9/reference_appendices/interpreter_discovery.html for more information. This
feature will be removed in version 2.12. Deprecation warnings can be disabled
by setting deprecation_warnings=False in ansible.cfg.
localhost | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    },
        "changed": true,
        "gid": 0,
        "group": "root",
        "mode": "0755",
        "owner": "user",
        "path": "/home/user/test",
        "size": 4096,
        "state": "directory",
        "uid": 1000
}
```

```
1 ---
2 - hosts: localhost
3 | connection: local
4 | become: yes
5 | become_method: sudo
6 | roles:
7 | - fresco_when
8
```

name: Solution for when clause hosts: localhost become: yes tasks:
name: check if file exists stat:
 path: ""
 register: f1
name: copy file copy:
 src:
 dest:
 when: not f1.stat.exists

•••

```
---
- name: Solution
hosts: localhost
become: yes
tasks:
- name: Check if file exists
    stat:
        path="/simplefile.txt"
    register: f1
- name: Create file
    copy:
        src: /simplefile.txt
        dest: /home/user/test
        when: not f1.stat.exists
```

With above ansible-playbook command failed as full path for simplefile.txt was not provided .

Correct paybook:

```
simplefile.txt
■ main.yml ×
          - name: Solution
           hosts: localhost
           become: yes
           - name: Check if file exists
              stat:
               path="/simplefile.txt"
             register: f1
           - name: Create file
             copy:
    12
               src: /projects/challenge/fresco when/tasks/simplefile.txt
               dest: /home/user/test/
             when: not f1.stat.exists
    14
```

- stat: Declares that we are using the stat module.
- path: Declares the path to the file or folder we want to check.
- register: Provides the name of the register where the stat module saves file and folder details.

```
User@workspacemu0xv3kwqt9cvtcv:/projects/challenge/fresco_when/tasks$ ansible-playbook main.yml

PLAY [Solution] *******

TASK [Gathering Facts] ****
[DEPRECATION WARNING]: Distribution Ubuntu 16.04 on host localhost should use /usr/bin/python3, but is using /usr/bin/python for backward compatibility with prior Ansible releases. A future Ansible release will default to using the discovered platform python for this host. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information. This feature will be removed in version 2.12. Deprecation warnings can be disabled by setting deprecation_warnings=false in ansible.cfg.

ok: [localhost]

TASK [Check if file exists] ****

ok: [localhost]

TASK [Create file] ****
changed: [localhost]

PLAY RECAP ****
localhost : ok=3 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

user@workspacemu0xv3kwqt9cvtcv:~/test$ ls

simplefile.txt

user@workspacemu0xv3kwqt9cvtcv:~/test$ |
```

File is copied.

As we know ansible is idempotent . If we again try to run playbook command changes will not be applied again .

multi. Yml Simpletiie. CAC
user@workspacemuθxv3kwqt9cvtcv:/projects/challenge/fresco_when/tasks\$ ansible-playbook main.yml
PLAY [Solution] ************************************
TASK [Gathering Facts] ************************************
TASK [Check if file exists] ***********************************
TASK [Create file] ************************************
PLAY RECAP ************************************

1. Ansible install nginx and postgresql

In this scenario, you have to Install nginx and postgresql using ansible-playbook.

 tasks for installing nginx and postgresql should be written in fresco_nginx\tasks\main.yml file.

Note:

- · Run project install to install ansible.
- · mainplaybook.yml file is provided to ansible-playbook.
- Use the localhost for the inventory for ansible-playbook.

```
#installing nginx and postgresql
- name: install nginx and postgresql
  hosts: localhost
  become: true
   - name: install nginx
    apt:
      name: nginx
      state: latest
   - name: install postgresql
    apt:
      name: postgresql
      state: latest
   - name: start nginx
    service:
      name: nginx
      state: started
   name: start postgresql
    service:
      name: postgresql
       state: started
```

```
PLAY [install nginx and postgresql] ******
[DEPRECATION WARNING]: Distribution Ubuntu 16.04 on host localhost should use
/usr/bin/python3, but is using /usr/bin/python for backward compatibility with prior
Ansible releases. A future Ansible release will default to using the discovered platform
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for
more information. This feature will be removed in version 2.12. Deprecation warnings can be disabled by setting deprecation_warnings=False in ansible.cfg.
changed: [localhost]
changed: [localhost]
ok: [localhost]
changed: [localhost]
localhost
                  : ok=5 changed=3 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
user@workspaceyrrvv9h9iq6l4g8u:/projects/challenge/fresco nginx/tasks$ ansible-playbook main.yml
```

1. Ansible Sibelius - Try It Out - Loops

In this scenario, you have to install apache2, sqlite3, git using loops,

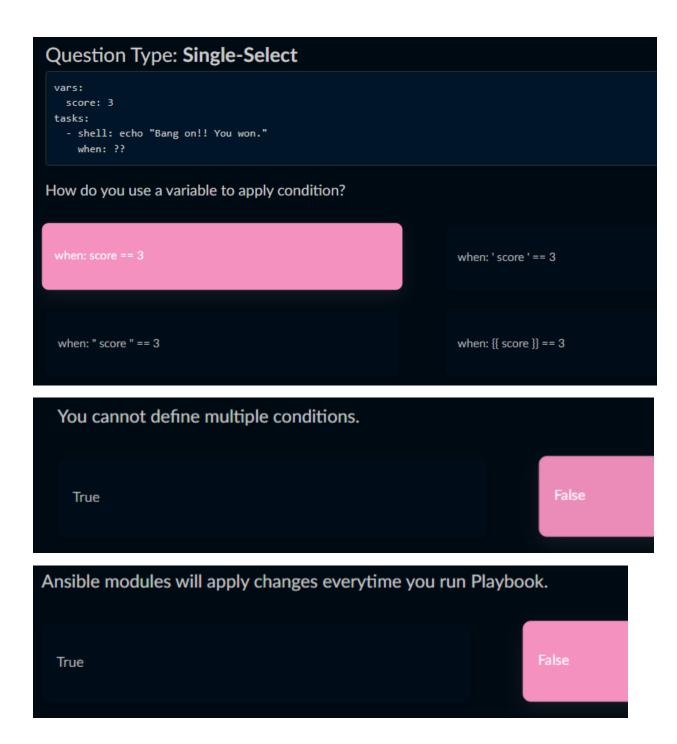
 tasks for installing apache2, sqlite3, git should be written in fresco_loops\tasks\main.yml

Disclaimer: This scenario always installs the latest version of ansible, if Invoking "apt" only once while using a loop via squash_actions is not working or deprecated, Try to use the pkg module while looping.

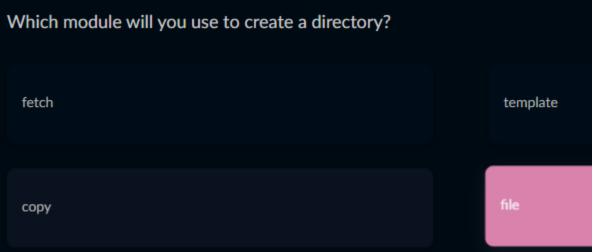
Note:

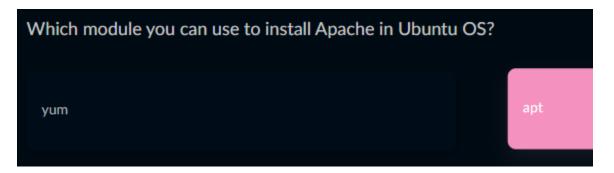
- · Run project install to install ansible.
- mainplaybook.yml file is provided to ansible-playbook.
- Use the localhost for the inventory for ansible-playbook.

```
---
- name: install apache2, sqlite3, git pn remote server
hosts: localhost
become: yes
tasks:
- name: Install list of packages
   action: apt pkg={{item}} state=latest
   with_items:
        - apache2
        - sqlite3
        - git
```

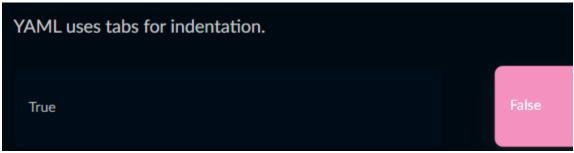


Ansible can deploy virtualization and cloud environments, including		
Google Cloud platform	Amazon Web Services	
Cloud Stack	Open Stack	
All the options		
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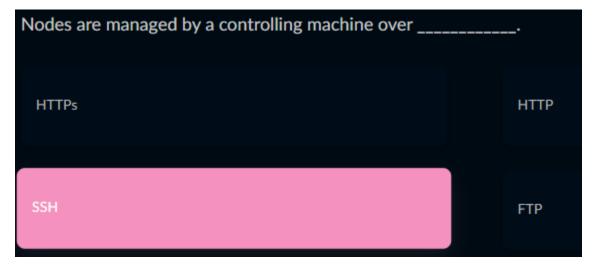






Which command do you use to do a syntax check on your Playbook?		
ansible-playbook <playbook_name>syntaxcheck</playbook_name>	ansible-playbook <playbook_name> -syntax-check</playbook_name>	
ansible-playbook <playbook_name> -syntaxcheck</playbook_name>	ansible-playbook <playbook_name>syntax-check</playbook_name>	

Using which module can you see the list of all the Ansible variables? ping copy fetch setup



ansible.cfg should be present in	
/etc/configurations	/ansible/
/etc/hosts	/etc/ansible
A Playbook starts with three dots	
False	True
You can write comments in Jinja2 as	
{##}	{% % }
({ })	

Ansible is a/an		
Orchestration Engine	All the options	
Infrastructure as code	Configuration management	
Ansible has two types of servers. Select the appropriate answer from the given options.		
Controlling machines and nodes	Only node	