

Database Installation Db.yml Runbook

Short Description

Automation of Database installation using Ansible playbook and Vagrant VM configuration.

Required Software

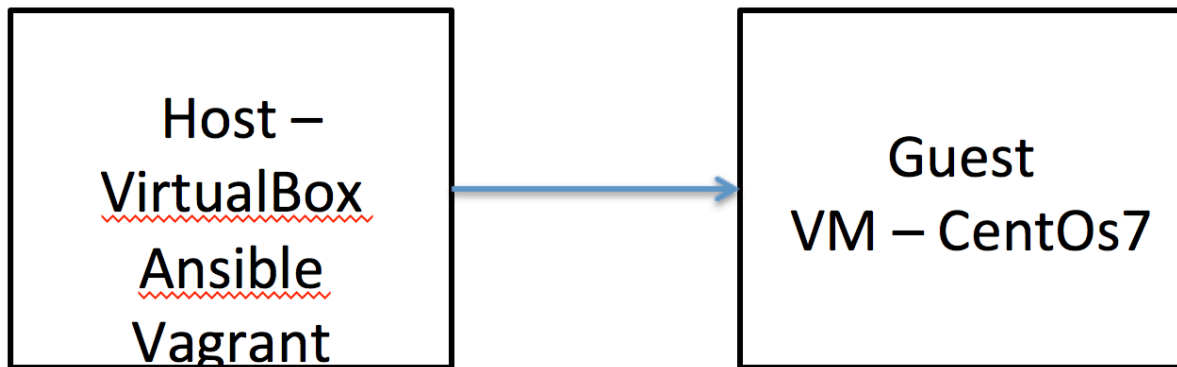
Vagrant

Ansible

VirtualBox

CentOS 7

Architecture Diagram



Deployment

Install Vagrant

Install Ansible

Configure a Vagrant Up file

Make sure you can ssh into your VM

Run Vagrant Up

Configure a db.yml file

Run ansible-playbook -i hosts.ini db.yml

Issues

Title: SystemD - Syntax error

Description: ERROR! no action detected in task. This often indicates a misspelled module name, or incorrect module path.

The error appears to have been in

'/Users/amikhaylov/Desktop/CIT360/cit-360-master/db2.yml': line 11,

column 7, but may
be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:

```
- become: yes
  ^ here
```

Remediation Steps: *Change Systemd: to Service: in the db.yml file*

Title: Using Yum for CentOS

Description: TASK [apt]

```
*****
fatal: [default]: FAILED! => {"changed": false, "cmd": "apt-get
update", "failed": true, "msg": "[Errno 2] No such file or directory",
"rc": 2}
```

```
- become: yes
  ^ here
```

Remediation Steps: *Change apt to YUM*

Title: Failed to retrieve selinux

Description: TASK [unarchive]

```
*****
fatal: [default]: FAILED! => {"changed": false, "failed": true, "msg":
"failed to retrieve selinux context", "path":
"/home/vagrant/db/._dumps", "state": "absent"}
```

Remediation Steps: *Add selinux tasks*

```
- name: f
  become: yes
  lineinfile: dest=/etc/sysconfig/selinux regexp="^SELINUX=" line="SELINUX=permissive"

- name: g
  become: yes
  command: setenforce 0
```

Change to mode=0644 and add become: yes

```
-name: k
  become: yes
  unarchive: src=db/db.tgz dest=~ / mode=0644
```

Webserver Installation web.yml Runbook

Short Description

Automation of Webserver installation using Ansible playbook and Vagrant VM configuration.

Required Software

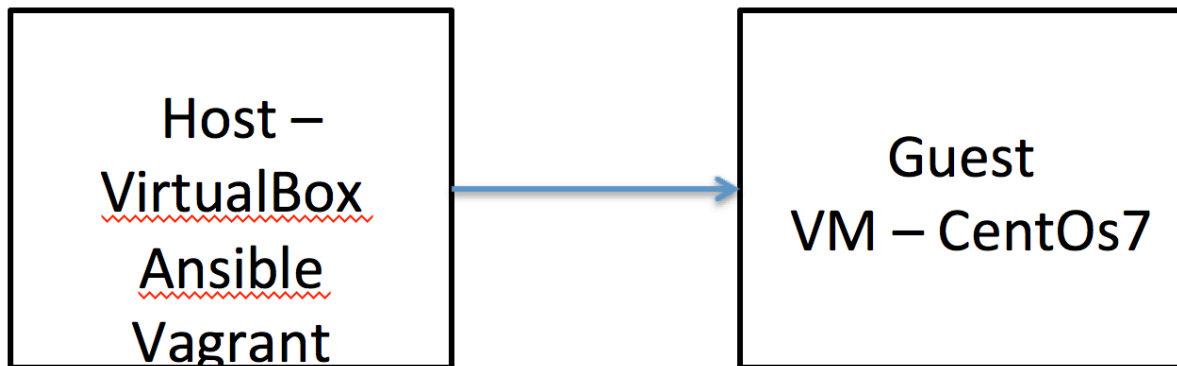
Vagrant

Ansible

VirtualBox

CentOS 7

Architecture Diagram



Deployment

Install Vagrant

Install Ansible

Configure a Vagrant Up file

Make sure you can ssh into your VM

Run Vagrant Up

Configure a web.yml file

Run ansible-playbook -i hosts.ini web.yml

Issues

Title: SystemD - Syntax error

Description: ERROR! no action detected in task. This often indicates a misspelled module name, or incorrect module path.

The error appears to have been in
'/Users/amikhaylov/Desktop/CIT360/cit-360-master/web.yml': line 11,
column 7, but may

be elsewhere in the file depending on the exact syntax problem.

The offending line appears to be:

```
- become: yes
  ^ here
```

Remediation Steps: *Change Systemd: to Service: in the web.yml file*

Title: Not file but directory

Description: TASK [file]

```
*****
fatal: [default]: FAILED! => {"changed": false, "failed": true, "gid":
993, "group": "nginx", "mode": "0755", "msg": "file
(/usr/share/nginx/curriculum) is directory, cannot continue", "owner":
"nginx", "path": "/usr/share/nginx/curriculum", "secontext":
"unconfined_u:object_r:usr_t:s0", "size": 4096, "state": "directory",
"uid": 995}
```

Remediation Steps: *Change file to directory*

```
- name: z
  become: yes
  file: path="{{ service_dir }}" state=directory
```