Tendrl-ansible guide

```
Vagrant.configure(2) do |config|
  config.vm.box = "centos/7"
  config.ssh.forward_x11 = true
  #config.vm.box = "bento/centos-7.2"
  #config.vm.box = "chef/fedora-20"
  config.ssh.insert_key = false
  VMS = 3
  (0..VMS-1).each do |vm|
    config.vm.define "server#{vm}" do |g|
       g.vm.hostname = "server#{vm}"
       g.vm.network :private_network, type: "dhcp"
       g.vm.provider :virtualbox do |vb|
          vb.memory = 2048
          vb.cpus = 2
       end
    end
  end
end
```

1. Fresh Install centos7
2. Install GNOME
   (yum group install "GNOME Desktop" "Graphical Administration Tools")
   (ln -sf /lib/systemd/system/runlevel5.target /etc/systemd/system/default.target)
   (reboot)
3. Install vagrant and virtual box
   (yum install https://releases.hashicorp.com/vagrant/1.9.7/vagrant_1.9.7_x86_64.rpm)
   (yum install
   http://download.virtualbox.org/virtualbox/5.1.26/VirtualBox-5.1-5.1.26_117224_el7-1.x86
   _64.rpm)
   (yum install gcc make)
   (yum install kernel-devel-3.10.0-514.26.2.el7.x86_64)
   (yum install kernel-devel)
   (/sbin/vboxconfig)
4. Create a dir to work in
5. Copy vagrant file(above) into dir you just created
6. (vagrant up) to create vms
7. Connect to each vm (vagrant ssh server#)

8. Su to root on all servers to do all of this password: vagrant very important!!!!!
   If u reboot or anything you will need to su again to root
   **********!!!!!!!!!!**********
9. Get all vms ips (ip a)
10. Setup hosts file so all vms know eachothers ip/name (vi /etc/hosts)
11. Set up passwordless ssh for tendrl servers -> gluster servers
    On tendrl server make a rsa key (ssh-keygen)
    On gluster server enable root login (vi /etc/ssh/sshd_config)
    Uncomment PermitRootLogin yes
    RSAAuthentication yes
    PubkeyAuthentication yes
    PasswordAuthentication yes
    On gluster servers restart sshd (service sshd restart)
    On tendrl server copy rsa key to gluster servers (ssh-copy-id root@server#)
    Accept key finger print
    root@server#'s password: password
12. Install gnome on tendrl server (you can do the next 2 steps while this one runs it take awhile)

    (yum group install "GNOME Desktop" "Graphical Administration Tools")
    (ln -sf /lib/systemd/system/runlevel5.target /etc/systemd/system/default.target)
    (reboot)
13. Power off gluster vms from virtual box gui and and disk/brick then power back on
    settings->stroage->adds hard disk->create new disk->next->next->create
    Power gluster vms back on
14. Install gluster on gluster servers (yum install centos-release-gluster)
    Setup the partition for the disks (fdisk /dev/sdb)(n)(enter)(enter)(enter)(enter)(w)

https://gluster.readthedocs.io/en/latest/Quick-Start-Guide/Quickstart/

15. Setup ntp on all servers (ntpdate clock.redhat.com)
    (yum install ntpdate) wont be installed on gluster servers
16. Clone tendrl-ansible to tendrl machine (yum install git)
    (git clone https://github.com/Tendrl/tendrl-ansible.git)
    (cd tendrl-ansible/)
17. Make ansible hosts file (vi hosts)

    [gluster-servers]
    server1
    server2

[tendrl-server]
localhost ansible_connection=local

18. make/modify anible file (site.yml)
(cp site.yml.sample site.yml)
(vi site.yml)
Under tendrl-server change etcd_ip_address: to ansible_eth1.ipv4.address
Under gluster-servers change etcd_ip_address: to ansible_eth1.ipv4.address
Graphite_ip_address to
ansible_eth1.ipv4.address
19. Install ansible (yum install epel-release)
(yum install ansible)
20. Run playbook (ansible-playbook site.yml -i hosts)
21. Import cluster thru tendrl api

(https://github.com/Tendrl/api/blob/master/docs/authentication.adoc)
curl -H 'Content-Type: application/json' -d '{"username":"admin", "password": "adminuser"}'
http://127.0.0.1/api/1.0/login

This will return u a access code (Authorization: Bearer) needed for next step

(https://github.com/Tendrl/api/blob/master/docs/nodes.adoc)
curl -XGET -H "Authorization: Bearer
ff1bbb78dc20dfbab23e2b23c6a673053563711a0e86d5d45d24dfec42acc29f"
http://127.0.0.1/api/1.0/nodes

I took the output from this and put it into a json formatter so i could actually read it and get all the node ids usually at the very end they are all given
https://jsonformatter.curiousconcept.com/

(https://github.com/Tendrl/api/blob/master/docs/clusters.adoc#import-cluster)
curl -XPOST -H "Authorization: Bearer
26de46cddec9ede53dc2c6922c96947ee1a12d4539e85fad10c7f72838117be7" -H
"Content-Type: application/json" \-d '{ "node_ids": ["92b6200a-9040-454a-b381-e664f4811f34",
"6f2cd079-df02-432f-bc65-262f1268ef68"], "sds_type":"gluster"}'
http://127.0.0.1/api/1.0/ImportCluster

This should import the cluster