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RedHat EX447 Exam Syllabus Topics:

TopicDetailsTopic 1- Set up directories containing multiple host variable files for some of your managed hosts- Create machine credentials to access inventory hostsTopic 2- Use special variables to override the host, port, or remote user Ansible uses for a specific host- Transform data with filters and pluginsTopic 3- Perform basic configuration of Ansible Tower after configuration- Populate variables with data from external sources using lookup pluginsTopic 4- Write an API scriptlet to launch a job- Manage inventories and credentials- Create a job workflow templateTopic 5- Implement loops using structures other than simple lists using lookup plugins and filters- Add those modified files back into the Git repositoryTopic 6- Run a task for a managed host on a different host, then control whether facts gathered by that task are delegated to the managed host or the other hostTopic 7- Inspect, validate, and manipulate variables containing networking information with filters- Update, modify and create files in a Git repositoryTopic 8- Override the name used in the inventory file with a different name or IP address- Create Ansible Tower users and teams and make associations of one to the otherTopic 9- Create a source control credential- Control privilege execution- Manage inventory variablesTopic 10- Use lookup and query functions to template data from external sources into playbooks and deployed template files

NEW QUESTION 14

Create a jinja template in /home/sandy/ansible/ and name it hosts.j2. Edit this file so it looks like the one below. The order of the nodes doesn’t matter. Then create a playbook in/home/sandy/ansiblecalledhosts.yml and install the template on dev node at

```
127.0.0.1   localhost localhost.localdomain localhost4 localhost4.localdomain4
::1         localhost localhost.localdomain localhost6 localhost6.localdomain6

10.0.2.1          node1.example.com      node1
10.0.2.2          node2.example.com      node2
10.0.2.3          node3.example.com      node3
10.0.2.4          node4.example.com      node4
10.0.2.5          node5.example.com      node5
```


See the Explanation for complete Solution below.

Explanation

Solution as:

in /home/sandy/ansible/hosts.j2

```
{%for host in groups['all']%}
{{hostvars[host]['ansible_default_ipv4']['address']}} {{hostvars[host]['ansible_fqdn']}}
{{hostvars[host]['ansible_hostname']}}
{%endfor%}
```


in /home/sandy/ansible/hosts.yml

```
---
 - name: use template
   hosts: all
   template:
      src: hosts.j2
      dest: /root/myhosts
   when: "dev" in group_names
```

NEW QUESTION 15

Using the Simulation Program,perform the following tasks:

1. Use an ansible ad-hoc command, check the connectivity of your servers.

2. Use an ad-hoc ansible command, find the free space of your servers.

3. Use an ad-hoc ansible command, find out the memory usage of your servers.

4. Do an ls -l on the targets /var/log/messages file.

5. Tail the contents of the targets /var/log/messages file.
See the Explanation for complete Solution below.

Explanation

1. ansible all -m ping

2. ansible all -a “/bin/df -h”

3. ansible all-a “/usr/bin/free”

4. ansible all -a “ls -l /var/log/messages”

5. ansible local -b -a “tail /var/log/messages”

NEW QUESTION 16

Create a file calledrequirements.ymlin/home/sandy/ansible/rolesto install two roles. The source for the first role is geerlingguy.haproxy and geerlingguy.php. Name the first haproxy-role and the second php-role. The roles should be installed in/home/sandy/ansible/roles.
See the Explanation for complete Solution below.

Explanation

in /home/sandy/ansible/roles

vim requirements.yml

```
- src: geerlingguy.haproxy
  name: haproxy-role
- src: geerlingguy. php_role
  name: php_role
```


Run the requirements file from the roles directory:

ansible-galaxy install -r requirements.yml -p /home/sandy/ansible/roles

NEW QUESTION 17

Install and configure ansible

User sandy has been created on your control node with the appropriate permissions already, do not change or modify ssh keys. Install the necessary packages to run ansible on the control node. Configure ansible.cfg to be in folder /home/sandy/ansible/ansible.cfg and configure to access remote machines via the sandy user. All roles should be in the path

/home/sandy/ansible/roles. The inventory path should be in

/home/sandy/ansible/invenlory.

You will have access to 5 nodes.

node1.example.com

node2.example.com

node3.example.com

node4.example.com

node5.example.com

Configure these nodes to be in an inventory file where node I is a member of group dev. nodc2 is a member of group test, node3 is a member of group proxy, nodc4 and node 5 are members of group prod. Also, prod is a member of group webservers.
See the Explanation for complete Solution below.

Explanation

In/home/sandy/ansible/ansible.cfg

[defaults]

inventory=/home/sandy/ansible/inventory

roles_path=/home/sandy/ansible/roles

remote_user= sandy

host_key_checking=false

[privilegeescalation]

become=true

become_user=root

become_method=sudo

become_ask_pass=false

In /home/sandy/ansible/inventory

[dev]

node1 .example.com

[test]

node2.example.com

[proxy]

node3 .example.com

[prod]

node4.example.com

node5 .example.com

[webservers:children]

prod

NEW QUESTION 18

Create the users in the fileusersjist.ymlfile provided. Do this in a playbook called users.yml located at

/home/sandy/ansible.The passwords for these users should be set using thelock.ymlfile from TASK7. When running the playbook, the lock.yml file should be unlocked withsecret.txtfile from TASK 7.

All users with the job of ‘developer’ should be created on thedevhosts, add them to the group devops, their password should be set using thepw_devvariable. Likewise create users with the job of ‘manager’ on theproxy host and add the users to the group ‘managers’, their password should be set using thepw_mgrvariable.

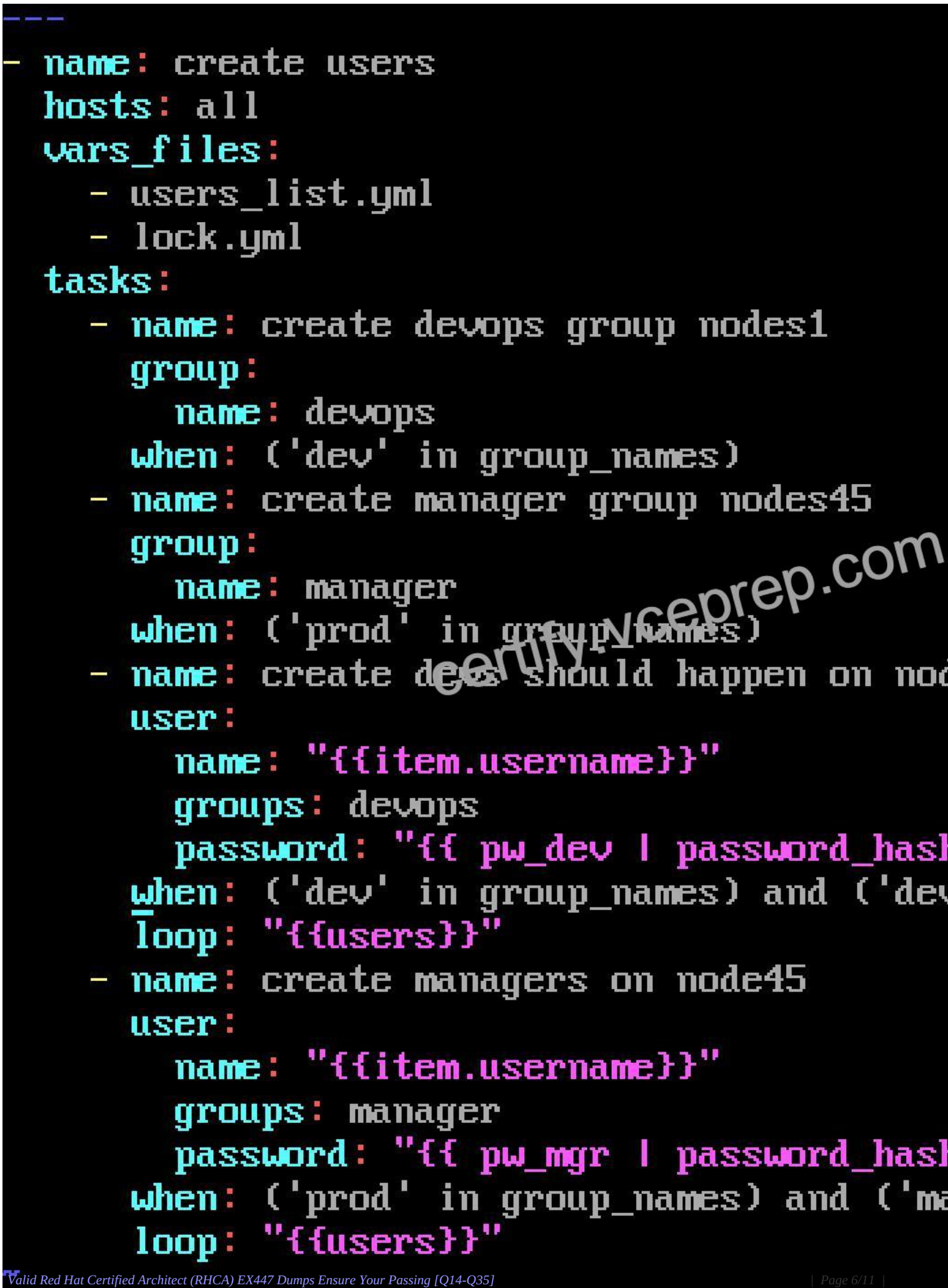
users_list.yml

```
users:
  - username: bill
    job: developer
  - username: chris
    job: manager
  - username: dave
    job: test
  - username: ethan
    job: developer
```


See the Explanation for complete Solution below.

Explanation

ansible-playbook users.yml -vault-password-file=secret.txt



NEW QUESTION 19

Create a playbook calledtimesvnc.yml in /home/sandy/ansible using rhel system role timesync. Set the time to use currently configured nip with the server 0.uk.pool.ntp.org. Enable burst. Do this on all hosts.
See the Explanation forcomplete Solution below.

Explanation

Solution as:

NEW QUESTION 20

Using the Simulation Program, perform the following tasks:

Static Inventories Task:

1. Add a new group to your default ansible host file. call the group [ec2]

2. Add a newhost to the new group you created.

3. Add a variable to a new host entry in the /etc/ansible/hosts file. Add the following. localhost http_port=80 maxRequestsPerChild=808

4. Check to see if maxRequestsPerChild is pulled out with an ad-hoccommand.

5. Create a local host file and put a target group and then a host into it. Then ping it with an ad-hoc command.
See the Explanation for complete Solution below.

Explanation

1. Edit the /etc/ansible/hosts file. Add a group.

2. Edit the /etc/ansible/hosts file. Add a user under the group you created.

3. Edit the /etc/ansible/hosts file. Find a host. if we add a variable called maxRequestsPerChild to the host it would look like this. host1 maxRequestsPerChild=808

4. ansible ec2 -m shell -a “echo {{ maxRequestsPerChild }}”

5. Edit a local file. It could be called anything. Lets call it myhosts. Inside the file it would have a host like the following. [mygroup] myusername1.mylabserver.com

NEW QUESTION 21

Create a file calledadhoc.shin/home/sandy/ansiblewhich will use adhoc commands to set up anew repository.

The name of the repo will be ‘EPEL’ the description ‘RHEL8’ the baseurl is’https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rmp’there is no gpgcheck, but you should enable the repo.

* You should be able to use an bash script using adhoc commands to enable repos. Depending on your lab setup, you may need to make this repo “state=absent” after you pass this task.
See the Explanation for complete Solution below.

Explanation

chmod0777adhoc.sh

vim adhoc.sh

#I/bin/bash

ansible all -m yum_repository -a ‘name=EPEL description=RHEL8

baseurl=https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rmp gpgcheck=no enabled=yes’

NEW QUESTION 22

Create an ansible vault password file calledlock.ymlwith the passwordreallysafepwin the

/home/sandy/ansibledirectory. In the lock.yml file define two variables. One ispw_devand the password is

‘dev’ and the other ispw_mgrand the password is ‘mgr’ Create a regular file calledsecret.txtwhich contains the password for lock.yml.
See the Explanation for complete Solution below.

Explanation

ansible-vault create lock.yml

New Vault Password: reallysafepw

Confirm: reallysafepw

In file:

```
pw_dev: dev
pw_mgr: mgr
```

NEW QUESTION 23

In /home/sandy/ansible/create a playbook called the play create a logical volume calledIv0and make it of size 1500MiB on volume group If there is not enough space in the volume groupprinta message

“Not enough space for logical vol instead. If the volume group still doesn’t exist, create a message”Volume group doesn’t exist” filesystem on allIv0logical volumes. Don’t mount the logical volume.
See the Explanation forcomplete Solution below.

Explanation

Solution as:

```
- name: hosts
  hosts: all
  tasks:
  -  name: create partition
     parted:
       device: /dev/vdb
       number: 1
       flags: [ lvm ]
       state: present
  - name: create vg
    lvg:
       vg: vg0
       pvs: /dev/vdb1
    when: ansible_devices.vdb.partitions.vdb1 is defined
  - name: create logical volume
    lvol:
       vg: vg0
       lv: lv0
       size: 1500m
    when: ansible_lvm.vgs.vg0 is defined and ( (ansible_lvm.vgs.vg0.size_g | float ) > 1.5)
  - name: send message if  volume group not large enough
    debug:
        msg: Not enough space for logical volume
    when: ansible_lvm.vgs.vg0 is defined and ( (ansible_lvm.vgs.vg0.size_g | float ) < 1.5)
  - name: create a smaller logical volume
    lvol:
       vg: vg0
       lv: lv0
       size: 1500m
    when: ansible_lvm.vgs.vg0 is defined and ( (ansible_lvm.vgs.vg0.size_g | float ) < 1.5)
  - name: create fs
    filesystem:
      dev: /dev/vg0/lv0
      fstype: xfs
    when: ansible_lvm.vgs.vg0 is defined
```

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