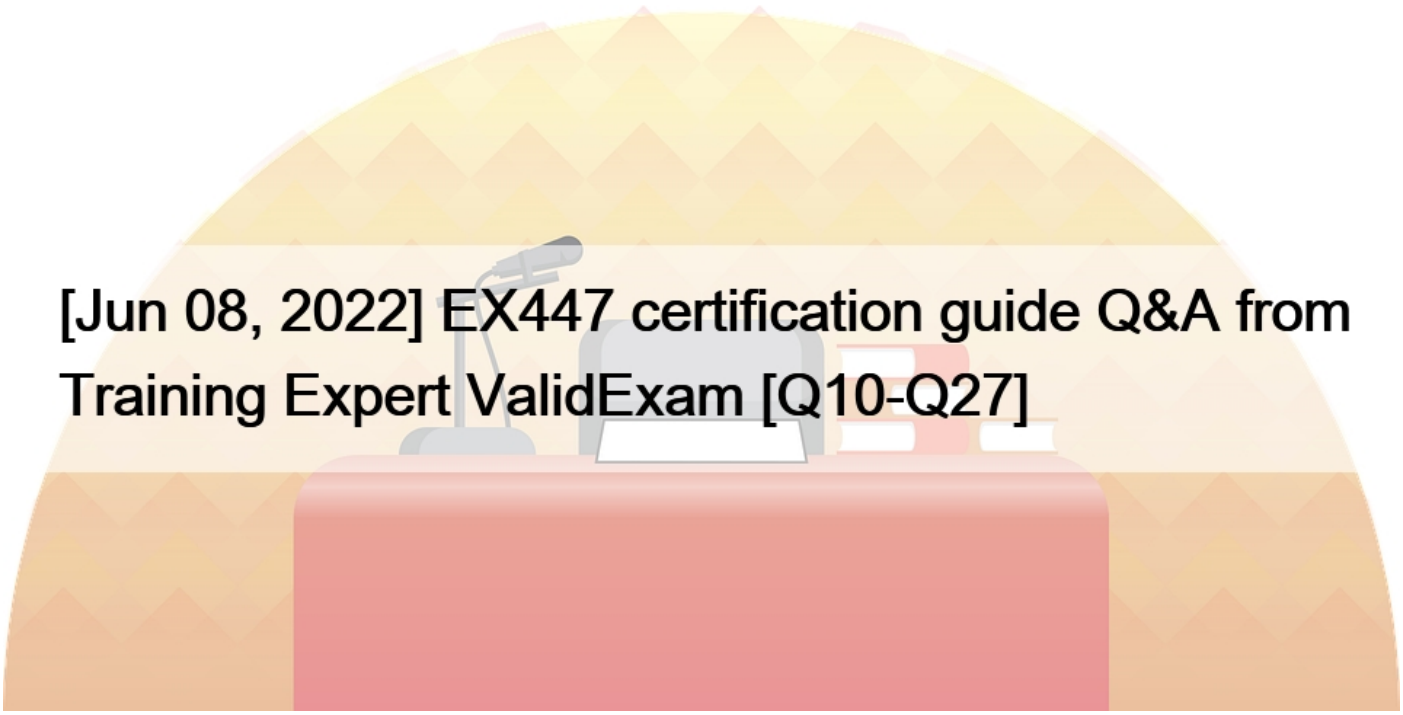
[Jun 08, 2022 EX447 certification guide Q&A from Training Expert ValidExam [Q10-Q27



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Q10. Create a role called sample-apache in that enables and starts httpd, enables and starts the firewall and allows the webserver service. Create a template calledindex.html.j2which creates and serves a message from/var/www/html/index.htmlWhenever the content of the file changes, restart the webserver service.

Welcome to [FQDN] on [IP]

Replace the FQDN with the fully qualified domain name and IP with the ip address of the node using ansible facts. Lastly, create a playbook in/home/sandy/ansible/calledapache.ymland use the role to serve the index file on webserver hosts.
See theExplanation for complete Solution below.

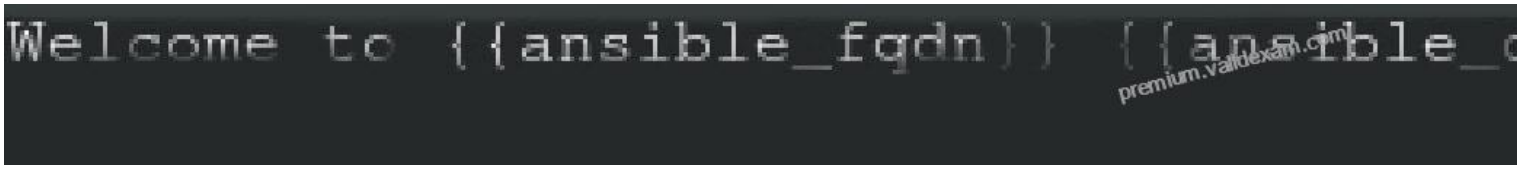
Explanation

/home/sandy/ansible/apache.yml

/home/sandy/ansible/roles/sample-apache/tasks/main.yml

```
---
# tasks file for sample-apache
- name: enable httpd
  service:
    name: httpd
    state: started
    enabled: true
- name: enable firewall
  service:
    name: firewalld
    state: started
    enabled: true
- name: firewall http service
  firewalld:
    service: http
    state: enabled
    permanent: yes
    immediate: yes
- name: index
  template:
    src: templates/index.html.j2
    dest: /var/www/html/index.html
  notify:
    - restart
```


/home/sandy/ansible/roles/sample-apache/templates/index.html.j2



In /home/sandy/ansible/roles/sample-apache/handlers/main.yml

Q11. Create a file calledpackages.yml in/home/sandy/ansibleto install some packages for the following hosts. On dev, prod and webservers install packages httpd, mod_ssl, and mariadb. On dev only install the development tools package. Also, on dev host update all the packages tothe latest.
See the Explanation for complete Solution below.

Explanation

Solution as:

** NOTE 1 a more acceptable answer is likely ‘present’ since it’s not asking to install the latest state: present

** NOTE 2 need to update thedevelopment node

– name: update all packages on development node

yum:

name: ‘*’

state: latest

Q12. 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”

Q13. 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

Q14. Create a file calledrequirements.ymlin/home/sandy/ansible/rolesa file calledrole.yml in

/home/sandy/ansible/.Thehaproxy-roleshould be used on the host. And when you curl

http://node3.example.comit should display “Welcome tonode4.example.com” and when you curl again

“Welcome tonode5.example.com” The
See the Explanation for complete Solution below.

Explanation

Solution as:

Check the proxy host by curlhttp://node3.example.com

Q15. Create a playbook calledwebdev.ymlin’home/sandy/ansible. The playbook will create a directory Avcbdev on dev host. The permission of the directory are 2755 and owner is webdev. Create a symbolic link from

/Webdevto /var/www/html/webdev. Serve a file from Avebdev7index.html which displays the text

“Development” Curlhttp://node1.example.com/webdev/index.htmlto test
See the Explanation for complete Solution below.

Explanation

Solution as:

```
- name: webdev
  hosts: dev
  tasks:
    - name: create webdev user
      user:
        name: webdev
        state: present
    - name: create a directory
      file:
        mode: '2755'
        path: /webdev
        state: directory
    - name: create symbolic link
      file:
        src: /webdev
        path: /var/www/html/webdev
        state: link
    - name: create index.html
      copy:
        content: Development
        dest: /webdev/ index.html
    - name: Install selinux policies
      yum:
        name: python3-policycoreutils
        state: present
    - name: allow httpd from this directory
      sefcontext:
        target: '/webdev(/.*)?'
        setype: httpd_sys_content_t
        state: present
    - name: restore the context
```

Q16. Create a playbook /home/bob /ansible/motd.yml that runs on all inventory hosts and docs the following: The playbook should replaee any existing content of/etc/motd in the following text. Use ansible facts to display the FQDN of each host On hosts in the dev host group the line should be “Welcome to Dev Server FQDN”.

On hosts in the webserver host group the line should be “Welcome to Apache Server FQDN”.

On hosts in the database host group the line should be “Welcome to MySQL Server FQDN”.
See the Explanation for complete Solution below.

Explanation

/home/sandy/ansible/apache.yml

/home/sandy/ansible/roles/sample-apache/tasks/main.yml

Q17. Install and configure ansible

Userbobhas been created on your control node. Give him the appropriate permissions on the control node.Install the necessary packages to run ansible on the control node.

Create a configuration file /home/bob/ansible/ansible.cfg to meet the following requirements:

* The roles path should include /home/bob/ansible/roles, as well as any other path that maybe required for the course of the sample exam.

* The inventory file path is /home/bob/ansible/inventory.

* Ansible should be able to manage 10 hosts at a single time.

* Ansible should connect to all managed nodes using the bob user.

Create an inventory file for the following five nodes:

nodel.example.com

node2.example.com

node3.example.com

node4.example.com

node5.example.com

Configure these nodes to be in an inventory file where node1 is a member of groupdev.nodc2 is a member of group test, nodc3 is a member of group nodc4 and node 5 are members of groupprod.Also,prodis 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

Q18. Create an empty encrypted file called and set the passwordtonotsafepw.

Rekey the passwordtoiwejfj2221.
See the Explanation for complete Solution below.

Explanation

ansible-vault create myvault.yml

Create new password: notsafepw Confirm password: notsafepwansible-vault rekey myvault.yml Current password: notsafepw New password: iwejfj2221 Confirm password: iwejfj2221

Q19. 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’

RedHat EX447 Exam Syllabus Topics:

TopicDetailsTopic 1- Perform basic configuration of Ansible Tower after configuration- Populate variables with data from external sources using lookup pluginsTopic 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- Inspect, validate, and manipulate variables containing networking information with filters- Update, modify and create files in a Git repositoryTopic 4- 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 5- Set up directories containing multiple host variable files for some of your managed hosts- Create machine credentials to access inventory hostsTopic 6- Create a dynamic inventory from an identity management server or a database server- Structure host and group variables using multiple files per host or groupTopic 7- 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 8- Create a source control credential- Control privilege execution- Manage inventory variablesTopic 9- Implement loops using structures other than simple lists using lookup plugins and filters- Add those modified files back into the Git repository

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