

A CLOUD GURU

# Red Hat Certified Specialist in Ansible Automation (EX407) Prep Guide

## Flash Cards

## Question 1:

True or False: A host in an inventory may only be part of one host group.

**Answer:**

**False. A host can be in any number of groups**

## Question 2:

# What file formats are valid for Ansible custom fact files?

**Answer:**

**INI,JSON, or an executable that return JSON.**

## Question 3:

Will the following ansible command fail:

```
'ansible all -a  
"mkdir/tmp/testfile"'
```

## Answer:

No! When not used with the module flag, the argument flag will simple run commands supplied via the argument flag directly against a target hosts (as long as they are valid commands).

## Question 4:

What does `max_failure_percentage` set a threshold for?

## Answer:

The maximum number of host failures that ansible will allow before stopping the play

## Question 5:

# What module would you use to create a new system user?

**Answer:**  
The user module.

**Question 6:**  
Expand `web[01:03].example.com`

**Answer:**

**web01.example.com**

**web02.example.com**

**web03.example.com**

**Question 7:**  
**True or False: Parallelism allows Ansible to act on multiple hosts simultaneously.**

## Answer:

True! Parallelism is accomplished in Ansible by forking the Ansible process which allows many copies of Ansible to act at one time against many hosts.

## Question 8:

# What keyword makes ansible continue a play execution despite a task failure?

**Answer:**

`ignore_errors: yes`

## Question 9:

True or false: ‘ansible-doc -- list’ is a quick way to a module listing on a system.

## Answer:

False. ‘Ansible-doc - -list’ is a rather slow to run.

# Question 10:

## What is the use of a machine credential in Ansible Tower?

## Answer:

The machine credential is used to supply a username and password (or ssh key) to access remote systems for use with ansible.

**Question 11:**  
**Ansible Tower provides what kind of interface to Ansible?**

**Answer:**  
**A web interface!**

## Question 12:

# How can you make a task conditional on a binary expression?

**Answer:**  
The ‘when’ keyword.

## Question 13:

How would you install the galaxy role named 'awesome' published by the user 'stallman'?

**Answer:**

**'ansible-galaxy install stallman.awesome'**

## Question 14:

True or false: Ansible always runs 15% more forks than the number of hosts it is executing against.

## Answer:

False. Ansible always run the minimum number of forks it requires.

**Question 15:**  
**Not considering command line defined  
variables, what variable definition takes the  
highest precedence in an ansible role?**

**Answer:**

**Variables defined in the ‘vars’ directory of a role.**

## Question 16:

What two ansible-vault sub-commands allow you to edit an already encrypted file and see the contents of an encrypted file?

**Answer:**  
**'Edit'** and **'view'**, respectively.

**Question 17:**  
**What flag allows you provide a non-default role path?**

**Answer:**  
The ‘-p’ flag.

**Question 18:**  
**What command is used to run ad-hoc ansible commands?**

**Answer:**  
**'ansible'**

## Question 19:

If you know Ansible is retrieving variables from a file called ‘./host\_vars/Johnny’ , what host must exists in the inventory?

## Answer:

There must be a host named Johnny. Ansible checks 'host\_vars/' for files by host names within the inventory.

**Question 20:**

**How does Ansible group a common set of tasks, variables, files, and handlers?**

**Answer:**  
**With Ansible Roles!**

# Question 21:

## Which Ansible variable type allows for key-value pairs?

**Answer:**  
A dictionary variable

## Question 22:

True or False: By default, playbooks gather facts on execution.

**Answer:**

True! Though you can disable fact gathering

# Question 23:

## What is the module index?

**Answer:**

The comprehensive online listing of available  
ansible modules.

## Question 24:

True or False: Handles and variables are shared between all roles on the system.

**Answer:**  
**True.**

## Question 25:

What ‘ansible-vault’ command will encrypt a file named “classified” ?

**Answer:**  
**'ansible-vault encrypt classified'**

## Question 26:

True or False: The ansible-galaxy command can only pull roles from galaxy.ansible.com.

## Answer:

**False!** The command can use any GitHub repo that is has credentials for.

## Question 27:

True or False: ‘ad-hoc’ commands may be run from a tower project.

## Answer:

**False! There is not an option to run an 'ad-hoc' command from the project menu.**

## Question 28:

**True or False: It is not possible to provide more than one vault password when executing an Ansible playbook.**

## Answer:

**False.** As of Ansible 2.4, the `vault-id` feature allows for multiple passwords to be used in a single playbook execution.

## Question 29:

# What is the data format returned by Ansible modules?

**Answer:**  
**JSON**

**Question 30:**  
**True or False: Ansible variables may be  
defined in external files.**

## Answer:

True! But the file must be included using either the `vars_file` keyword or through a command line switch.

**Question 31:**  
**What is the command to return information  
on the htpasswd module?**

**Answer:**  
**'Ansible-doc htpasswd'**

## Question 32:

What keyword is used to pass parameters to an Ansible role?

**Answer:**  
**'vars'**

**Question 33:**  
What does the keyword ‘changed\_when’ do?

## Answer:

It allows you to have Ansible mark a certain task result &quot;changed&quot; presuming the accompanying conditional returns true.

## Question 34:

**What directory does Ansible Tower use to look for project artifacts by default when configured to use a manual project?**

**Answer:**

The directory set in PROJECTS\_ROOT.

## Question 35:

# What is the best way to manage a config file with Ansible?

**Answer:**  
**Ansible Template**

**Question 36:**  
**What is the processing language for ansible  
templates?**

**Answer:**  
**Jinja2**

## Question 37:

If you know Ansible is retrieving variables from a file called ‘./group\_vars/webservers’ , what group must exist in the inventory?

## Answer:

'Webservers' , because the files for  
`group_vars` must be named after the group.

## Question 38:

# What facts are contained in the ansible\_local variable?

**Answer:**

**Custom facts defined on remote systems  
using facts.d.**

## Question 39:

**What are the three flags that allow you to specify a password that will allow ansible to successfully use ansible-vault encrypted files?**

**Answer:**

**'ask-vault-password' , 'ask-vault-file' , and  
'vault-id'**

**Question 40:**  
**What flag does the ansible-playbook command take that will cause the command to only run against a specified host?**

**Answer:**  
The ‘- -limit’ flag.

# Question 41:

## What makes an Ansible inventory dynamic?

**Answer:**

**It is an executable file! (Script or binary)**

**Question 42:**  
**What are the two required parameters for the template module?**

# Answer:

| -  
-src  
-dest

## Question 43:

# What directories may be used by an Ansible role?

# Answer:

| -  
**-tasks**  
**-handlers**  
**-vars**  
**-defaults**  
**-files**  
**-templates**  
**-meta.**

**Question 44:**  
**What Ansible module can write to stdout and stderr on the ansible control node during play execution?**

**Answer:**  
The debug module.

## Question 45:

What three keywords work together to provide "try / catch" style error handling?

# Answer:

I -  
**-block**  
**-rescue**  
**-always**

## Question 46:

What types of items may be in an Ansible inventory?

**Answer:**  
**Hosts, groups, and variable declarations.**

## Question 47:

What do the terms ‘install’, ‘init’ , ‘remove, and ‘search’ have in common when it comes to Ansible?

**Answer:**

They are all sub commands of the  
ansible-galaxy command.

## Question 48:

**What format must be returned by an Ansible dynamic inventory?**

**Answer:**  
**JSON**

## Question 49:

# How can you manipulate text output from Ansible variables?

**Answer:**  
Using a Jinja filter.

**Question 50:**  
**True or False: Ansible Tower is installed with  
Ansible Core.**

**Answer:**

**False. Ansible Tower is only available stand-alone.**

## Question 51:

**What keyword must be set to true in order to allow a role to be applied more than once within a play?**

**Answer:**  
**'allow\_duplicates'**

## Question 52:

Which flag is used to specify the arguments that pass to a module for the ansible command?

**Answer:**  
**'-a'**

## Question 53:

What is the script name that kicks off the Ansible Tower install?

**Answer:**  
**'setup.sh'**

## Question 54:

# Is it possible to use a directory as an Ansible inventory?

## Answer:

**Yes! If you provide a directory as your inventory Ansible will use all of the valid inventories it finds in that directory (static or dynamic).**

**Question 55:**

What Ansible modules allow one to insert text  
into an existing file?

**Answer:**  
**'Lineinfile'**

## Question 56:

# What does the template module do?

**Answer:**  
Deploys ansible templates.

## Question 57:

What are the two ways you can supply a vault password using '--vault-id'?

## Answer:

You may specify a password file using  
'label@fileName' or you may have ansible  
prom using 'label@prompt'

**Question 58:**  
**What inventory file does the following command use:**  
**'ansible webservers -m setup'**

**Answer:**  
**The default inventory file**

## Question 59:

# What keyword allows you to batch play execution by hosts?

**Answer:**  
The serial keyword.

**Question 60:**  
**What ansible-vault sub-command allows you  
to encrypt a single string?**

**Answer:**  
**Encrypt-string**

**Question 61:**  
**Using source control is the preferred way to  
set up what Ansible Tower artifact?**

**Answer:**  
A Tower project.

## Question 62:

# What flags must be handled by the dynamic inventory in Ansible?

## Answer:

- - list
- - host &lt;HOSTNAME&gt;

# Question 63:

## Ansible Variable names should only be made of what?

**Answer:**

**'Letters, number, and underscores.'**

## Question 64:

# With no extra options, how does ansible-doc present output?

**Answer:**

In a less like text viewing application.

**Question 65:**

**What is the Ansible module used to validate host connectivity?**

**Answer:**  
**'Ping'**

## Question 66:

What does the filter parameter for the setup module?

## Answer:

It allows you to filter Ansible facts returned using a regular expression.

## Question 67:

Which Ansible role directories do not require a main.yml if they are being used?

**Answer:**  
**'Templates' and 'files'**

## Question 68:

**What Ansible module runs a command against a remote host with no environment set up?**

**Answer:**  
The command module.

## Question 69:

This Ansible role directory is primarily used to define role dependencies.

**Answer:**  
The ‘meta’ directory.

**Question 70:**

# How do you change the name of an Ansible role?

## Answer:

Rename the directory that defines the role.

**Question 71:**  
**What is the Ansible command that gathers facts for all servers in the webservers group (assume default inventory file)?**

**Answer:**  
**'Ansible webservers -m setup'**

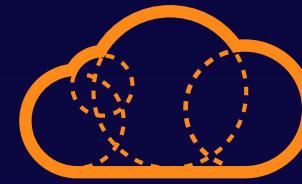
**Question 72:**

What are the required parameters for the service module?

**Answer:**  
Only a name.

## Question 73:

What flag sets the fork count for an ansible ‘ad-hoc’ command?



## Answer:

`-f &lt;NUM_FORKS&gt;`

## Question 74:

# Where does ansible-galaxy install roles by default?

**Answer:**  
`/etc/ansible/roles`

**Question 75:**  
**Ansible variable names may only start with what?**

**Answer:**  
A letter.

**Question 76:**  
**What Ansible module installs software on  
Red Hat systems?**

**Answer:**  
The yum module.

## Question 77:

**True or False: The number of forks will limit how many hosts that a play with serial defined can execute on.**

## Answer:

**True. Ansible will never make more than the maximum number of forks, even if serial is defined higher than that number in a play.**

## Question 78:

True or false: Ansible variables may be prompted during play execution.

**Answer:**

True! Using the `vars_prompt` keyword.

**Question 79:**

**What file extension must be used for custom Ansible fact files?**

**Answer:**  
**.fact**