

## Multiple Choice Questions

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1. You are using Ansible to deploy your application on the server. By default, Ansible playbooks are written in which language?

- a. HTML
- b. JSON
- c. YAML
- d. XML

Answer: c

Explanation:

Ansible playbooks are by default written in YAML. YAML is a human-readable scripting language commonly used for configuration files in applications where data is stored or transmitted.

2. A user has started working on Ansible and wants to explore the scope of Ansible. Select all the tasks that Ansible can perform?

- 1. Configure management
- 2. Task automation
- 3. Application deployment

- a. 1 and 2
- b. 1 and 3
- c. 2 and 3
- d. 1, 2, and 3

Answer: d

Explanation:

Ansible is an open-source software provisioning, configuration management, and application-deployment tool enabling infrastructure as code.

3. Client needs the DevOps team to deploy the application using Ansible playbooks. Ansible is the new tool for the DevOps team, and they started learning this tool.

Select the correct option to help the DevOps team know the language used to write the Ansible engine code?

- a. Ruby
- b. Python
- c. Java
- d. C++

Answer: b

Explanation:

Python is an interpreted high-level, general-purpose programming language used to write Ansible engine code. Python is used for web development, software development and scripting. Python is used on the server to create web applications alongside software to create workflows. Python connects with the

database to read and write files. Also, can handle big-data and complex mathematics. Python is also used for production-ready software development.

4. You are about to write your first ansible-playbook. You need to specify a variable in your ansible-playbook. Which argument should you use to specify a variable in your Ansible playbook?

- a. -e
- b. -c
- c. -d
- d. -a

Answer: a

Explanation:

It is possible to set variables at the command line using the `--extra-vars` (or `-e`) argument in your ansible playbook.

5. You are creating Ansible roles for your project. Select the correct statements about Ansible roles? (Select multiple options)

- a. Roles are used to group multiple tasks in one container for automation.
- b. Roles cannot be reused once created.
- c. Roles are a set of tasks used to break the configuration.
- d. Roles are difficult to modify and increase syntax error.

Answer: a, c

Explanation:

Roles are used to group multiple tasks in one container for automation and are easily reused if the role is suitable for someone.

Roles are a set of tasks used to break the configuration and are easy to modify. Further roles reduce syntax error.

6. Can Ansible galaxy templates be used to create Ansible roles?

- a. True
- b. False

Answer: a

Explanation:

Ansible Galaxy is a Galaxy website where users can share roles and a command-line tool to install, create, and manage roles. Galaxy is a free and is used for finding, downloading, and sharing community developer roles. Galaxy is an excellent way for automating your project. You can also use Ansible Galaxy to share roles that you have created. One needs to authenticate GitHub account to import roles and make them available for the Ansible community.

7. From the following options, select the correct command used to install roles from ansible galaxy?

- a. `ansible-galaxy install role_name`
- b. `ansible install username.role_name`

- c. ansible-galaxy install namespace.role\_name
- d. galaxy install namespace.role\_name

Answer: c

Explanation:

ansible-galaxy install namespace.role\_name is that command used to install roles from ansible galaxy.

8. You are trying to install and configure an Ansible server. Which of the following is the minimum requirement for the control node?

- a. java 8 version or above
- b. ruby 2.3 version or above
- c. maven 3.6 version or above
- d. python 2.6 version or above

Answer: d

Explanation:

To set up an Ansible server, you must install the python 2.6 version or above in your system.

9. While working with Ansible roles, select the directory which contains files required to transfer or deployed to target machines via Ansible roles?

- a. Meta
- b. Files
- c. Tasks
- d. Handlers

Answer: b

Explanation:

Files directory contains files that are required to transfer or deployed to target machines via Ansible roles. So, you need to keep all your files under files directory.

10. What is the extension used by jinja templates in Ansible?

- a. .g2
- b. .c2
- c. .j2
- d. .e2

Answer: c

Explanation:

Jinja templates use .j2 extension in Ansible. For example - my\_app\_config.j2

You can specify your environment, local IP, local user details etc., in Jinja templates. Then you can run this jinja template inside your Ansible playbook.

11. What is the command to create a new role?

- a. Push works in a master slave architecture which requires agents set up on all slave nodes.
- b. Systems using push architecture can scale quite easily which is not the case with push model.
- c. Push based systems are completely Synchronous.
- d. Push approach require agents set up on individual nodes.

Answer: c

Explanation:

Push based systems are completely Synchronous as you can see the changes made instantaneously and can fix the system if changes cause problems.

12. What is the command to create a new role?

- a. sudo ansible create <roleName>
- b. sudo ansible-galaxy create <roleName>
- c. sudo ansible init <roleName>
- d. sudo ansible-galaxy init <roleName>

Answer: d

Explanation:

The correct command to create new ansible role is sudo ansible-galaxy init <roleName>

13. Which of the following statement is not true about inventory files?

- a. Ansible's inventory lists all the platforms you want to automate across
- b. It is not possible to have multiple inventory files at the same time
- c. The host inventory file can contain host names either individually or in groups
- d. While writing an inventory file, host Groups can be created by giving a group name within square brackets.

Answer: b

Explanation:

We can have multiple inventory files at the same time.

14. Which command is used to add a user to a host using an Ansible ad-hoc command?

- a. ansible -b -k -m user 'name=name\_of\_user'
- b. ansible -b -k -m user 'name=name\_of\_user' name\_of\_host
- c. ansible -b -k -m user -a 'name=name\_of\_user' name\_of\_host
- d. ansible -b -k -m user -a 'name=name\_of\_host' name\_of\_user

Answer: c

Explanation:

-b is flag for become, -k is for sudo password, -m is for module and -a is for add'. The host's name is defined in the end. So, the correct command is -b -k -m user -a 'name=name\_of\_user' name\_of\_host'.

15. Playbooks are the \_\_\_\_\_

- a. Units which actually gets the work done in Ansible.
- b. Plugins which provide extra functionality to Ansible.
- c. Roles which can be used inside playbooks and even as in-line commands.
- d. Ansible's way of deploying and configuring different remote servers and environments

Answer: d

Explanation:

Playbooks are the Ansible's way of deploying and configuring different remote servers and environments. It can be used to handle multi-tier rollouts.

16. Variables in Ansible can be \_\_\_\_\_

- a. Used to control system resources, like services, packages, execute system commands, or files
- b. Defined and used anywhere even in inventory or in an Ad-Hoc command
- c. Used to enable you to hook into Ansible events for display or logging purposes
- d. Provides extra functionality to Ansible

Answer: b

Explanation:

Variables can be defined and used anywhere in Ansible even in inventory or in an Ad-Hoc command. It extends the functionality of conditionals and loops in Ansible

17. Which of the following statement is not true about tasks in Playbooks?

- a. All the tasks that are to be executed on remote systems are defined under the tasks section
- b. A single play can consist multiple tasks.
- c. Handlers are tasks which are executed multiple times.
- d. Tasks are executed in order

Answer: c

Explanation:

Handlers are tasks which are executed only once for every play. Notify triggers are called upon tasks in the handler section.

18. You are about to set up Ansible on the Amazon EC2 instance. From the following options, select the correct order for Ansible installation on the Amazon EC2 instance?

1. Install Ansible on Master
2. Launch 2 Amazon EC2 instances
3. Set up Ansible host and testing connections
4. Configure SSH access to Ansible host

- a. 1-3-2-4
- b. 2-1-4-3
- c. 2-4-1-3
- d. 1-2-4-3

Answer: b

Explanation:

Steps to install and configure Ansible on Amazon EC2 instance:

1. Launch 2 Amazon EC2 instances
2. Install Ansible on Master
3. Configure SSH access to Ansible host
4. Set up Ansible host and testing connections

19. While installing and configuring Ansible on Amazon EC2 instance, it is only required installing Ansible on the master node.

- a. True
- b. False

Answer: a

Explanation:

On the master node you only need to install Ansible. On the Ansible slave node, you need to install python as python is only required to establish the connection between Amazon master and slave nodes.

20. You are configuring Amazon EC2 machines for installing Ansible. Which are the minimum ports you need to open under your security group for installing Ansible on Amazon EC2 machines?

- a. Port: 22
- b. Port: 22,80
- c. Port: 80,443
- d. Port: 22,80,443

Answer: d

Explanation:

You need to open the following ports in your Amazon EC2 security groups:

Port 22: for SSH AWS EC2 Instance

Port 80: for HTTP connections

Port 443: for HTTPS connections

21. From the following options, select the keys required to access Amazon EC2 instance?

- a. Public key
- b. Private key
- c. Both
- d. None

Answer: c

Explanation:

For accessing the Amazon EC2 instance, you need to generate public and private keys for that Amazon EC2 instance.

22. You get a permission denied error while accessing Ansible slave nodes from the Ansible master node. How will you fix this issue?

- a. Save slave node public key to the master node
- b. Save master node public key to a slave node
- c. Save slave node private key to the master node
- d. Save master node private key to a slave node

Answer: b

Explanation:

You need to generate a public key using the key-gen command inside the master node and then save this public key inside slave node authorized keys.

23. For Ansible master to communicate with Ansible slave node, what is the Ansible master file path where you need to add the Ansible slave node public IP?

- a. /etc/ansible/hosts
- b. /bin/ansible/hosts
- c. /ansible/hosts/public
- d. /etc/ansible/public

Answer: a

Explanation:

For Ansible master to communicate with Ansible slave node, you need to add Ansible slave node public IP under Ansible master file path: /etc/ansible/hosts

In this path, you can write: slave ansible\_ssh\_host=<slave public ip> and save the file.

24. You have completed the Ansible master and slave connection setup, and now you need to test the connection. From the following options, select the correct command(s) to test the setup?

- a. ansible -m ping all
- b. ansible -m ping <host\_name>
- c. ansible -m ping <slave\_ip>
- d. ansible -m ping <group\_name>

Answer: a, b, d

Explanation:

Using the following commands, you can test the Ansible master and slave connection:

ansible -m ping all -> This command will test the connection of ansible master with all slave nodes configured.



Ansible -m ping <host\_name> -> This command will test the connection of ansible master with a particular slave machine name mentions inside the hostname parameter.

ansible -m ping <group\_name> -> This command will test the connection of ansible master with all slave nodes mentioned in a particular group name.

25. Ansible playbooks are simple configuration management and multi-machine deployment system and is very well suited to deploying complex applications.

- a. True
- b. False

Answer: a

Explanation:

Ansible playbooks are the blueprint of automation tasks in which complex actions are executed with limited or no human involvement.

Ansible playbooks are executed on a set, group, or classification of hosts, which together make Ansible inventory.

26. Which command will you use to run a playbook called install.yml with Ansible?

- a. ansible install.yml
- b. ansible -p install.yml
- c. ansible-playbook install.yml
- d. ansible --playbook install.yml

Answer: c

Explanation:

ansible-playbook install.yml command is used to run a playbook called install.yml with Ansible.