



Top 20 Ansible Interview Questions and Answers

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Ansible Interview Questions and Answers

Ansible is a DevOps-driven IT automation technology that is expanding throughout many industries. This document offers well-crafted Ansible interview questions and answers for the year 2024! This post will help you ace your next interview, regardless of how experienced you are with Ansible or whether you're just starting with this potent automation tool.

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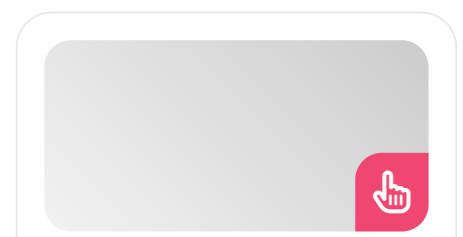


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1. What is Ansible?

Ansible is a free and open-source automation tool for application deployment, configuration management, and software provisioning.

2. How do you install Ansible?

Package managers such as apt or yum on Linux, pip on macOS and Windows, or Ansible's pre-built packages can be used to install Ansible on various operating systems.

3. Describe the Ansible architecture.

Ansible has a client-server architecture in which managed nodes and the control node connect via SSH. The control node runs the Ansible installation and performs the actions indicated in the playbook.

4. What are Ansible playbooks?

YAML files known as Ansible playbooks specify a series of actions to be carried out on distant hosts. They make it possible to automate intricate setups and tasks.

5. What characteristics does Ansible have?

Features of Ansible include:

Agentless/SSH/Push: Unlike Puppet or Chef, there is no software or agent node administration.

Python: Python is an easy-to-learn programming language on which Ansible is built. It is very easy to write scripts on and quite sturdy.

Simple to set up and learn: Ansible is a simple program to use. Since it's open source, anybody can use it.

6. Name Ansible tools

A list of many tools you may bring up in an Ansible developer interview is provided below:

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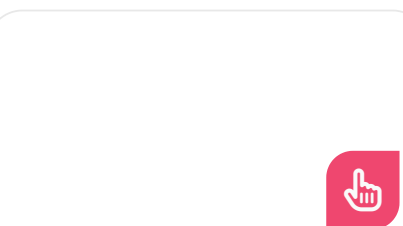
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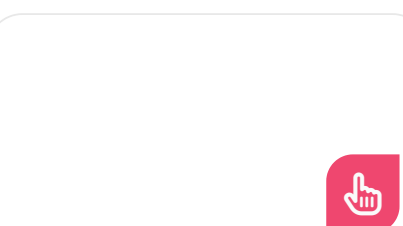
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Ansible Galaxy: To help you save time, the Galaxy website lets you search for and share community roles.

Ansible Tower is a command-line utility that offers more features along with a graphical user interface.

Microsoft created **Visual Studio Code**, a code editor that can be extended to handle YAML and Ansible.

Atom is a free and open-source text editor useful for integrating with YAML files and tracking project modifications.

[Download Ansible Syllabus PDF](#)

7. What is CI/CD?

One tool used to streamline the development and deployment processes is continuous integration, or CI. Coherent software has developed quickly as a result. An automatic build verifies each integration to identify integration faults as soon as possible.

Your code can be pushed to a remote repository and then deployed to production at any moment with continuous delivery (CD). To put it another way, it's the process of creating software that can be released into production at any time.

8. What is configuration management?

One procedure we should use to monitor any updates that are made to the system over time is configuration management (CM).

This is especially helpful when a significant bug that must be resolved with the least amount of downtime has been introduced into the system as a result of some recent changes.

System configuration management (CMM) maintains track of all necessary system upgrades and makes sure that the system's build and design

are current and operating correctly.

9. What specifications does the Ansible server need to meet?

In case you operate Windows, you must have a virtual machine where Linux needs to be installed. Python 2.6 or later is required to use Ansible Server. If these conditions are met, you can move on without difficulty.

10. How do Ansible tasks work?

In Ansible, the task is a single action. It divides a configuration policy into more manageable files or code segments. These building elements can help automate certain tasks, such as updating software or installing packages:

1 Command: Install <package_name>

2 Command: update <software_name>

11. Describe Ansible-doc.

Ansible-doc shows details about installed modules in Ansible libraries. It generates a brief sample that can be put into a playbook, prints out the documentation strings for each plug-in, and presents an inventory of plug-ins together with a brief explanation.

12. Describe the facts about Ansible.

You may think of Ansible facts as a means for Ansible to gather host-related data and store it in variables for convenient access. The script can make use of this data, which is kept in predefined variables. Ansible runs the set-up module to produce facts.

Ansible Salary

13. What do Ansible callback plug-ins mean?

Callback plug-ins manage the output that appears when we run CMD (Command Prompt) programs. In addition, it can be utilized to add more outputs, or even more than one.

For instance, the mail callback is used to send an email on playbook failures, and the `log_plays` callback records playbook events into a log file.

Additionally, you can add custom callback plug-ins by placing them inside a role, in a callback directory source that is set in *ansible.cfg*, or by dropping them into a `callback_plugins` directory next to `play`.

14. Define Ansible inventory and its types.

The hosts and host groups that the tasks, commands, and modules in a playbook will run on are defined in an Ansible inventory file.

Static and dynamic inventory files are the two types available in Ansible, and they are described as follows:

Static Inventory: A static inventory file is a plain text file that contains a list of managed hosts that have been defined under a host group using either hostnames or IP addresses.

In each line, the managed host entries are listed beneath the group name.

Dynamic Inventory: A script built in Python, any other programming language, or—ideally—with the help of plug-ins produces dynamic inventory.

Static inventory file settings in a cloud setup won't work since IP addresses change when virtual servers are stopped and restarted.

15. What is an ansible vault?

Passwords and other sensitive information are stored in the Ansible vault instead of being stored in playbooks or roles as plain text. Ansible may encrypt a single value within a YAML file or any

structured data file.

The data is encrypted using the following command:

```
1 Command: ansible-vault  
encrypt foo.yml bar.yml  
baz.yml
```

The data must be decrypted using the following command:

```
1 Command: ansible-vault  
decrypt foo.yml bar.yml  
baz.yml
```

16. How do we write an Ansible handler with multiple tasks?

Assume you wish to write a handler that will only restart a service if it is already operational.

Tasks can notify those subjects as indicated below, and handlers can comprehend generic themes.

Triggering numerous handlers is significantly simpler with this functionality.

Additionally, it separates handlers from their names, which facilitates handler sharing between roles and playbooks.

```
– name: Check if restarted
```

```
shell: check_is_started.sh
```

```
register: result
```

listen: Restart processes

– *name: Restart conditionally step 2*

service: name=service state=restarted

when: result

listen: Restart processes

17. Is it possible to copy files onto a destination host recursively? If so, how?

The copy module allows us to copy files recursively onto a target host. It can copy files from a directory using a recursive argument. This is particularly the purpose of another module named “Synchronize.” The directive for the same is provided below:

– *synchronize:*

src: /first/absolute/path

dest: /second/absolute/path

*delegate_to: “{{ inventory_hostname
}}”*

18. How are Ansible projects tested?

Three testing approaches are available, and they are listed below:

Asserts: Asserts mimic the behavior of the test in languages other than Python. It checks to see if your system has arrived at its target state rather than merely operating in check mode as a simulation. Assertions indicate if the task modified the relevant resources and completed the task at hand.

Check Mode: In check mode, you can see how things would function in the absence of the

simulation. As a result, it is simple to determine whether the project performs as anticipated.

The scripts and commands used in the roles and playbooks are not executed in check mode, which is a limitation. To get past this, we must use the following command to disable check mode for particular tasks:

Command: check_mode: no

Manual Run: The play is just executed to see if the system is operating as intended. The simplest testing option may also be the riskiest since it creates a test environment that might not be identical to the production environment.

19. What distinguishes the Ansible `set_fact` module from `include_var`, `vars`, and `vars_file`?

Ansible's `set_fact` function is used to set new variable values on a host-by-host basis, much like Ansible facts, which are located by the `setup` module.

A playbook's subsequent plays can use these variables. When using `set_fact`, we can save the value after preparing it on the fly using specific tasks such as applying filters or taking subparts of another variable.

In contrast, when using `vars`, `vars_file`, or `include_var`, we know the value ahead. A fact cache can also be set over it.

The `set_fact` variable is assigned using key-pair values, where the assignment to the variable is the value and the variable name is the key. Below is a basic example of what it looks like.

– *set_fact:*

one_fact: value1

second_fact:

value2

20. How can content be made more redistributable and reusable?

To enable the reuse and redistribution of content, you can utilize Ansible roles. Playbooks can be arranged essentially at an abstract level using Ansible roles.

For instance, setting down every activity that needs to be completed on five different systems in the playbook could result in errors and confusion. Rather, we develop ten roles and refer to them within the playbook.

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Conclusion

The most crucial Ansible topics are covered in these top 20 Ansible interview questions and answers, which will help you in both the interview and a thorough grasp of Ansible. Join the best [Ansible training in Chennai](#) and start a promising career in DevOps.

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