



# CRACK ANSIBLE LIKE A PRO



BY DEVOPS SHACK

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## DevOps Shack

# Crack Ansible Like a Pro

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## Introduction

Ansible has become a cornerstone of IT automation, empowering teams to manage infrastructure, streamline deployments, and automate complex workflows with ease. Its simplicity, agentless architecture, and powerful features make it a go-to tool for DevOps engineers, system administrators, and developers alike.

In today's fast-paced IT environments, automation is no longer optional—it's essential. Ansible enables organizations to achieve consistency across their systems, reduce manual effort, and minimize errors. With its declarative language (YAML) and extensive module library, Ansible simplifies everything from configuration management and application deployment to orchestrating large-scale environments.

This guide compiles **50 of the most commonly asked Ansible interview questions**, designed to cover a wide range of topics, from basic concepts to advanced use cases. Each question is paired with a detailed answer, offering practical insights and actionable solutions. Whether you're a beginner preparing for interviews or an experienced professional brushing up your skills, this comprehensive resource will help you understand Ansible's capabilities and best practices.

By exploring these questions, you'll gain a deeper understanding of key Ansible concepts, such as idempotency, dynamic inventories, role management, troubleshooting, and performance optimization. Additionally, the scenario-based answers highlight real-world applications of Ansible, equipping you with the knowledge to tackle challenges in production environments confidently.

Ansible is more than just a tool—it's a gateway to achieving efficient, reliable, and scalable IT operations. Dive in, and discover how mastering Ansible can elevate your career and bring value to your organization.

### **Question 1: How can you create an idempotent playbook in Ansible? Answer:**

Idempotency ensures that executing a playbook multiple times produces the same result without introducing unwanted changes. Ansible modules like `file`,

copy, and service are inherently idempotent. For example, if you want to ensure a directory exists:

```
- name: Ensure the directory exists
```

```
file:
```

```
path: /path/to/directory
```

```
state: directory
```

Running this task multiple times won't recreate the directory unnecessarily. For non-idempotent modules like command, you can use conditional checks with the creates or removes parameter. Always test your playbook in --check mode before execution to confirm idempotency.

## Question 2: How do you handle secrets securely in Ansible?

### Answer:

Ansible provides **Ansible Vault** to encrypt sensitive data like passwords and API keys. For example:

1. Create an encrypted file:

```
ansible-vault create secrets.yml
```

2. Add secrets to the file (e.g., db\_password: "secure\_password").

3. Reference the encrypted file in your playbook:

```
- name: Use encrypted secrets
```

```
vars_files:
```

```
- secrets.yml
```

```
tasks:
```

```
- name: Use the password
```

```
debug:
```

```
msg: "The password is {{ db_password }}"
```

Decrypt the file during execution using --ask-vault-pass or a password file.



---

### Question 3: How do you manage multiple environments using Ansible?

#### Answer:

Use environment-specific inventories and variable files. Example structure:

```
inventories/  
  dev/  
    hosts  
    group_vars/  
      all.yml  
  prod/  
    hosts  
    group_vars/  
      all.yml
```

In your playbook, dynamically reference the environment:

```
- name: Deploy to the environment  
  hosts: all  
  vars_files:  
    - group_vars/all.yml  
  tasks:  
    - name: Deploy app  
      debug:  
        msg: "Deploying to {{ env }}"
```

Run the playbook for a specific environment:

```
ansible-playbook playbook.yml -i inventories/dev/hosts -e "env=dev"
```

### Question 4: How do you handle task dependencies within a playbook?

---

**Answer:**

Ansible ensures task execution is sequential. To enforce dependencies, use conditional checks (when) or block:

```
- name: Enforce task dependency
```

```
  block:
```

```
    - name: Install dependencies
```

```
      apt:
```

```
        name: nginx
```

```
        state: present
```

```
    - name: Start nginx
```

```
      service:
```

```
        name: nginx
```

```
        state: started
```

```
  when: ansible_distribution == "Ubuntu"
```

Use notify and handlers for dependent actions like restarting services.

### Question 5: How do you test playbooks locally before deploying?

**Answer:**

Use the --check mode to simulate execution without making

changes: `ansible-playbook playbook.yml --check`

For detailed testing, use tools like Molecule:

1. Install

Molecule: `pip install`

`molecule`

2. Initialize and test:

`molecule init role`

`myrole molecule test`



---

This validates playbooks in isolated environments before

### Question 6: How do you execute tasks only for newly added hosts in an inventory?

#### Answer:

Use dynamic host groups and Ansible facts to detect new hosts. Example:

```
- name: Identify new hosts
```

```
hosts: all
```

```
tasks:
```

```
- name: Add to new hosts group
```

```
add_host:
```

```
name: "{{ inventory_hostname }}"
```

```
groups: new_hosts
```

```
when: ansible_date_time.epoch > 'recent_timestamp'
```

Tasks can then target the new\_hosts group.

### Question 7: How do you implement rolling updates in Ansible?

#### Answer:

Use the serial keyword to control the number of hosts updated at a time:

```
- name: Rolling update
```

```
hosts: webservers
```

```
serial: 2
```

```
tasks:
```

```
- name: Update application
```

```
command: update_app
```

This updates two hosts at a time. Combine with health checks for safe updates.

---

### Question 8: How do you handle a non-idempotent task in Ansible?

#### Answer:

Wrap non-idempotent commands with checks using the `creates` or `removes` parameter. Example:

```
- name: Run task only if file doesn't exist
```

```
  command:
```

```
    cmd: touch /path/to/file
```

```
  args:
```

```
    creates: /path/to/file
```

This ensures the command only executes if the specified file is missing, maintaining idempotency.

### Question 9: How do you configure a task to execute only on specific OS distributions?

#### Answer:

Use Ansible facts like `ansible_distribution` or `ansible_os_family` in `when` conditions:

```
- name: Task for Ubuntu
```

```
  apt:
```

```
    name: nginx
```

```
    state: present
```

```
  when: ansible_distribution == "Ubuntu"
```

This ensures tasks execute only on compatible systems.

### Question 10: How do you manage parallelism in Ansible?

#### Answer:

Parallelism is controlled using `forks` in `ansible.cfg` or the

CLI: `ansible-playbook playbook.yml --forks 10`

This runs tasks on 10 hosts simultaneously. Use serial in playbooks for controlled parallelism:

```
- name: Controlled parallelism
```

```
hosts: all
```

```
serial: 5
```

```
tasks:
```

```
- name: Execute task
```

```
command: some_command
```

This ensures tasks execute in batches of 5 hosts at a time.

### Question 11: How do you use Ansible Vault to encrypt sensitive information?

#### Answer:

Ansible Vault allows you to encrypt sensitive data, like passwords or API keys, securely:

#### 1. Create an encrypted

```
file: ansible-vault create
```

```
secrets.yml
```

Add your sensitive data to this file (e.g., db\_password: "secure\_password").

#### 2. Use the encrypted file in your playbook:

```
- name: Use encrypted data
```

```
vars_files:
```

```
- secrets.yml
```

```
tasks:
```

```
- name: Display the database password
```

```
debug:
```

```
msg: "Database password is {{ db_password }}"
```

#### 3. Run the playbook:

---

```
ansible-playbook playbook.yml --ask-vault-pass
```

Vault ensures your secrets are secure and accessible only with the decryption password.

### Question 12: How do you execute tasks on the Ansible control node?

#### Answer:

To execute tasks locally on the Ansible control node, use the localhost keyword:

```
- name: Run tasks on control node
  hosts: localhost
  tasks:
    - name: Display local message
      debug:
        msg: "This task runs on the control node"
```

Alternatively, in multi-host playbooks, use `delegate_to: localhost`:

```
- name: Task on control node
  command: echo "Task executed locally"
  delegate_to: localhost
```

This is useful for tasks like managing local files or executing API calls.

### Question 13: How do you handle loops in Ansible?

#### Answer:

Ansible supports loops with `with_items` or `loop`. Example:

```
- name: Install multiple packages
  apt:
    name: "{{ item }}"
    state: present
  with_items:
```

---

```
- nginx
```

```
- mysql
```

Using the modern loop syntax:

```
- name: Add multiple users
```

```
  user:
```

```
    name: "{{ item }}"
```

```
    state: present
```

```
  loop:
```

```
    - user1
```

```
    - user2
```

You can also loop over dictionaries, nested lists, or files.

#### **Question 14: How can you check and apply updates only if needed in Ansible?**

##### **Answer:**

Use modules like yum or apt with state: latest:

```
- name: Ensure latest packages
```

```
  apt:
```

```
    name: nginx
```

```
    state: latest
```

For kernel updates or special cases, combine register and when:

```
- name: Check for updates
```

```
  yum:
```

```
    name: kernel
```

```
    state: latest
```

```
  register: kernel_update
```

```
- name: Reboot if kernel updated
```

```
  reboot:
```

```
    when: kernel_update.changed
```

This ensures updates are applied only when necessary.

### Question 15: How do you manage dependencies between roles?

#### Answer:

Define role dependencies in meta/main.yml:

```
dependencies:
```

```
- { role: common, vars: { var1: value1 } }
```

```
- { role: database, vars: { db_user: admin } }
```

When the dependent role (common or database) is applied, its tasks are executed before the current role. This ensures modularity and reusability.

### Question 16: How do you troubleshoot Ansible errors?

#### Answer:

Use the following techniques:

#### 1. Enable verbose mode:

```
ansible-playbook playbook.yml -v
```

#### 2. Print debug information:

```
- name: Debug variable value
```

```
  debug:
```

```
    var: some_variable
```

#### 3. Run in step mode:

```
ansible-playbook playbook.yml --step
```

#### 4. Check log files on the control and target nodes for further insights.

### Question 17: How can you limit playbook execution to a subset of hosts?

#### Answer:

Use the `-l` or `--limit` flag to target specific hosts:

```
ansible-playbook playbook.yml -l "webservers:!staging" In
```

a playbook, define host patterns:

```
- name: Target specific hosts
  hosts: webservers:&datacenter1
  tasks:
    - name: Example task
      debug:
        msg: "Running task on a subset of hosts"
```

Logical operators like `!` (NOT) and `&` (AND) refine targeting.

### Question 18: How do you conditionally include tasks or playbooks?

#### Answer:

Use `include_tasks` or `import_tasks` with conditions:

```
- name: Include tasks dynamically
  include_tasks: deploy.yml
when: ansible_distribution == "Ubuntu"
```

For playbooks:

```
- name: Conditionally include playbook
  import_playbook: database.yml
when: inventory_hostname in groups['databases']
```

This ensures tasks or playbooks are executed only when conditions are met.

### Question 19: How do you implement a health check for a service in Ansible?



---

**Answer:**

Use the uri module to perform HTTP health checks:

- name: Check application health

uri:

url: http://{{ inventory\_hostname }}/health

status\_code: 200

register: health\_check

- name: Restart if health check fails

service:

name: myapp

state: restarted

when: health\_check.status != 200

This ensures the application is functional before proceeding.

## Question 20: How do you manage dynamic inventories in Ansible?

**Answer:**

Dynamic inventories fetch host information from external sources like AWS, Azure, or GCP.

1. **Use a plugin** (e.g., AWS EC2):

- Install required

libraries: `pip install boto3`

- Create an inventory file

(aws\_ec2.yml): `plugin: aws_ec2`

regions:

- us-east-1

filters:

```
tag:Environment: dev
```

## 2. Run the playbook:

```
ansible-playbook playbook.yml -i aws_ec2.yml
```

This retrieves hosts dynamically from AWS based on tags or other filters.

### Question 21: How do you set up a jump host (bastion host) for Ansible?

#### Answer:

A jump host acts as an intermediary for SSH connections to target hosts. Configure it in the inventory file using the `ansible_ssh_common_args` parameter:

```
[webservers]
```

```
web1 ansible_host=192.168.1.10 ansible_ssh_common_args='-o ProxyCommand="ssh -W %h:%p bastion_user@bastion_host"'
```

Alternatively, configure it globally in `ansible.cfg`:

```
[ssh_connection]
```

```
ssh_args = -o ProxyCommand="ssh -W %h:%p bastion_user@bastion_host"
```

Ansible routes all connections through the jump host, enhancing security.

### Question 22: How can you speed up playbook execution in Ansible?

#### Answer:

Optimize performance using the following techniques:

#### 1. Reduce fact gathering:

```
- hosts: all
```

```
gather_facts: no
```

#### 2. Enable SSH pipelining: In

```
ansible.cfg: [ssh_connection]
```

```
pipelining = true
```

#### 3. Limit hosts: Target only necessary hosts with `--limit`.

4. **Increase parallelism:** Adjust forks in ansible.cfg or use --forks during execution:

```
ansible-playbook playbook.yml --forks 10
```

5. **Cache facts:** Enable fact caching in ansible.cfg to avoid repetitive data collection.

### Question 23: How do you ensure Ansible only executes specific tasks based on host variables?

#### Answer:

Use conditional statements with when:

```
- name: Task based on host variable
```

```
  debug:
```

```
    msg: "This task runs on hosts with a specific variable"
```

```
  when: some_variable == "value"
```

Define some\_variable in the inventory or host vars file, and Ansible will execute the task only on hosts meeting the condition.

### Question 24: How do you handle errors in Ansible playbooks?

#### Answer:

1. **Ignore errors for specific tasks:**

```
- name: Ignore errors
```

```
  command: /bin/false
```

```
  ignore_errors: yes
```

2. **Use block, rescue, and always:**

```
- name: Error handling
```

```
  block:
```

```
    - command: /bin/false
```

```
  rescue:
```

```
- debug: msg="Task failed. Recovering..."
```

```
always:
```

```
- debug: msg="This always runs."
```

### 3. Abort on failure:

Use `failed_when` to explicitly define failure conditions.

## Question 25: How do you handle tasks that require interactive input?

### Answer:

Use the `expect` module to automate interactive commands:

```
- name: Automate interactive input
```

```
expect:
```

```
command: passwd user1
```

```
responses:
```

```
"New password:": "password123"
```

```
"Retype new password:": "password123"
```

This automates scenarios like password changes or command-line prompts.

## Question 26: How do you include external playbooks within a playbook?

### Answer:

Use `import_playbook` for static inclusion or `include_playbook` for dynamic inclusion. Example:

```
- name: Include an external playbook
```

```
import_playbook: database.yml
```

Dynamic inclusion with conditions:

```
- name: Include playbook dynamically
```

```
include_playbook: deploy.yml
```

```
when: ansible_distribution == "Ubuntu"
```

This helps modularize complex configurations.

### Question 27: How can you dynamically generate configuration files with Ansible?

#### Answer:

Use Jinja2 templates with variables to generate dynamic configurations.

Example:

1. Create a template

(nginx.conf.j2): jinja

server

{ listen

80;

server\_name {{ inventory\_hostname }};

root {{ web\_root }};

}

2. Apply the template:

- name: Generate nginx config

template:

src: nginx.conf.j2

dest: /etc/nginx/nginx.conf

Variables like `inventory_hostname` and `web_root` are dynamically replaced during execution.

### Question 28: How do you run specific tasks as a different user in Ansible?

#### Answer:

Use the `become` directive to elevate privileges or switch users:

- name: Run task as another user

become: yes

become\_user: deploy

---

tasks:

- name: Create a directory

file:

path: /home/deploy/app

state: directory

Ensure the user has necessary sudo permissions configured on the target system.

### Question 29: How do you perform a health check before starting a task?

#### Answer:

Use the uri module for HTTP-based health checks or the command module for system-level checks:

- name: Check if service is healthy

uri:

url: http://{{ inventory\_hostname }}/health

status\_code: 200

register: health\_check

- name: Restart service if unhealthy

service:

name: myapp

state: restarted

when: health\_check.status != 200

This ensures tasks only proceed if the system is healthy.

### Question 30: How do you manage large inventories with Ansible?

---

**Answer:**

For large inventories, use dynamic inventory plugins or group management.

Example:

1. **Dynamic inventory** with

AWS: `plugin: aws_ec2`

`regions:`

`- us-east-1`

`filters:`

`tag:Environment: production`

2. **Group management** in static

`inventories: [web]`

`web1`

`web2`

`[db]`

`db1`

`db2`

`[all:children]`

`web`

`db`

Dynamic inventories scale better and reduce manual maintenance.

### **Question 31: How do you manage role dependencies in Ansible?**

**Answer:**

Role dependencies are managed using the `meta/main.yml` file within a role.

You can specify dependent roles and pass variables if required:



---

dependencies:

```
- { role: common, vars: { user: "admin" } }
```

```
- { role: webserver }
```

When the role is executed, Ansible first applies the dependent roles in the order listed. This ensures modularity and reusability of configurations across projects.

### Question 32: How do you pass variables dynamically to a playbook?

#### Answer:

Variables can be passed dynamically during playbook execution using the `-e` option:

```
ansible-playbook playbook.yml -e
```

```
"variable_name=value"
```

 In the playbook, you can

reference the variable:

```
- name: Use dynamic variable
```

```
debug:
```

```
msg: "The value of variable_name is {{ variable_name }}"
```

This is useful for environment-specific configurations or runtime parameterization.

### Question 33: How do you execute tasks only on failed hosts in Ansible?

#### Answer:

Use the `failed_hosts` group dynamically created during execution. Example:

```
- name: Retry tasks on failed hosts
```

```
hosts: failed_hosts
```

```
tasks:
```

```
- name: Example task
```

```
debug:
```

```
msg: "Retrying on failed hosts"
```

---

Alternatively, use handlers or error handling blocks (rescue) to re-execute tasks for failed nodes.

### Question 34: How do you ensure a service is running after deployment?

#### Answer:

Use the service or systemd module with state: started:

```
- name: Ensure service is running
```

```
  service:
```

```
    name: nginx
```

```
    state: started
```

To verify its status, combine with the uri module or custom health checks:

```
- name: Verify service health
```

```
  uri:
```

```
    url: http://localhost
```

```
    status_code: 200
```

This ensures both the service state and functionality are validated.

### Question 35: How do you handle multiple SSH keys in Ansible?

#### Answer:

Specify the private key for each host in the inventory file:

```
[webservers]
```

```
web1 ansible_ssh_private_key_file=/path/to/key1
```

```
web2 ansible_ssh_private_key_file=/path/to/key2
```

Alternatively, use the --private-key option during

execution: `ansible-playbook playbook.yml --private-key`

```
/path/to/key
```

This is useful when managing hosts with different authentication keys.

---

### Question 36: How can you execute tasks on a subset of hosts in Ansible?

#### Answer:

Use the `--limit` option to restrict playbook execution to specific

hosts: `ansible-playbook playbook.yml --limit "web1,web2"`

In a playbook, specify host groups or patterns:

- `name: Execute tasks on specific hosts`

```
hosts: webservers:&datacenter1
```

```
tasks:
```

- `name: Example task`

```
  debug:
```

```
    msg: "Task executed on selected hosts"
```

This provides fine-grained control over execution targets.

### Question 37: How do you ensure a task runs only once in a multi-host playbook?

#### Answer:

Use the `run_once` directive to execute a task only on the first matched host:

- `name: Run task only once`

```
  debug:
```

```
    msg: "This task runs only once"
```

```
  run_once: yes
```

For tasks like database migrations or centralized configurations, `run_once` ensures actions are not duplicated.

### Question 38: How do you dynamically assign roles based on host variables?

#### Answer:

Use the `include_role` module with conditions:

- `name: Assign roles dynamically`

```
include_role:
  name: "{{ role_name }}"
  when: ansible_distribution == "Ubuntu"
```

Define `role_name` as a host variable or derive it based on conditions. This approach helps in creating dynamic, reusable playbooks.

### Question 39: How do you cache facts in Ansible to improve performance?

#### Answer:

Enable fact caching in `ansible.cfg` to reuse gathered facts across multiple playbook executions:

```
[defaults]
gathering = smart
fact_caching =
  jsonfile
fact_caching_connection = /tmp/ansible_cache
```

This reduces the overhead of fact gathering, especially in large inventories.

### Question 40: How do you integrate Ansible with Jenkins for CI/CD pipelines?

#### Answer:

Integrate Ansible with Jenkins by adding a build step to execute an Ansible playbook. Example Jenkins pipeline:

```
pipeline {
  agent any
  stages {
    stage('Deploy') {
      steps {
        ansiblePlaybook(
```

---

```
include_role
:   playbook: 'deploy.yml',
```

```
inventory: 'inventory.yml',  
extras: '-e env=prod'  
)  
}  
}  
}  
}  
}
```

Ensure Ansible is installed on the Jenkins node and the required SSH keys are configured for host access. This enables seamless deployment automation.

**Question 41: How do you restart a service only when a configuration file changes?**

**Answer:**

Use notify and handlers to restart a service conditionally when a file changes.

Example:

```
- name: Update configuration file
```

```
  src: nginx.conf
```

```
  dest: /etc/nginx/nginx.conf
```

```
  notify: Restart nginx
```

```
handlers:
```

```
- name: Restart nginx
```

```
  service:
```

```
    name: nginx
```

```
    state: restarted
```

The handler is triggered only if the configuration file is updated, avoiding unnecessary service restarts.

---

**Question 42: How can you skip specific tasks in a playbook?****Answer:**

Use the --skip-tags option to skip tasks with specified tags:

```
- name: Install a package
```

```
  yum:
```

```
    name: nginx
```

```
    state: present
```

```
    tags: skip_me
```

Run the playbook and skip the task:

```
ansible-playbook playbook.yml --skip-tags skip_me
```

This provides flexibility to exclude tasks during execution.

**Question 43: How do you dynamically retrieve and use secrets from a vault (e.g., HashiCorp Vault)?****Answer:**

Integrate HashiCorp Vault using the community.hashi\_vault plugin:

1. Install the plugin:

```
ansible-galaxy collection install community.hashi_vault
```

2. Retrieve secrets dynamically:

```
- name: Retrieve secret
```

```
  ansible.builtin.debug:
```

```
    msg: "{{ lookup('community.hashi_vault.hashi_vault',  
'secret=secret/data/mysecret key=mykey') }}"
```

This ensures secrets are securely fetched at runtime.

**Question 44: How do you check if a file exists before executing a task?****Answer:**

Use the stat module to check file existence:



---

```
- name: Check if file exists
```

```
  stat:
```

```
    path: /path/to/file
```

```
  register: file_status
```

```
- name: Execute task if file exists
```

```
  command: echo "File exists"
```

```
  when: file_status.stat.exists
```

This prevents tasks from failing when dependent files are absent.

#### Question 45: How can you include multiple variable files in a playbook?

##### Answer:

Use the `vars_files` directive to include multiple variable files:

```
- name: Use multiple variable files
```

```
  vars_files:
```

```
    - vars/common.yml
```

```
    - vars/env.yml
```

```
  tasks:
```

```
    - name: Display variables
```

```
      debug:
```

```
        msg: "Common variable: {{ common_var }}, Env variable: {{ env_var }}"
```

This simplifies variable management across environments or use cases.

#### Question 46: How do you roll back changes in Ansible?

##### Answer:

Define separate playbooks for rollbacks or use block with rescue:

```
- name: Main task
```

```
block:
```

```
- name: Deploy app
```

```
  command: deploy_app
```

```
rescue:
```

```
- name: Rollback deployment
```

```
  command: rollback_app
```

Alternatively, maintain a rollback playbook that reverses changes made during deployment:

```
ansible-playbook rollback.yml
```

#### Question 47: How do you manage Ansible playbook execution order for roles?

##### Answer:

Role execution follows the order they are defined in the playbook. Example:

```
- name: Execute roles in order
```

```
hosts: all
```

```
roles:
```

```
- common
```

```
- webserver
```

```
- database
```

This ensures common runs first, followed by webserver and database.

#### Question 48: How do you use tags to control task execution? Answer:

Tags allow selective execution of tasks:

```
- name: Install nginx
```

```
  yum:
```

```
name: nginx
```

```
state: present
```

```
tags: nginx
```

```
- name: Install mysql
```

```
  yum:
```

```
    name: mysql
```

```
    state: present
```

```
    tags: mysql
```

Run tasks with specific tags:

```
ansible-playbook playbook.yml --tags nginx
```

This executes only the tagged tasks.

### **Question 49: How do you deploy applications to multiple environments using Ansible?**

#### **Answer:**

Use environment-specific inventories and variable files:

1. Create directories for

environments: `inventories/`

```
dev/
```

```
  hosts
```

```
  group_vars/all.yml
```

```
prod/
```

```
  hosts
```

```
  group_vars/all.yml
```

2. Reference inventory and variables dynamically:

```
ansible-playbook playbook.yml -i inventories/dev/hosts -e "env=dev"
```

This enables seamless multi-environment deployment.

## Question 50: How do you debug and troubleshoot a failing Ansible task?

### Answer:

Use these methods:

#### 1. **Verbose mode:**

```
ansible-playbook playbook.yml -vvvv
```

#### 2. **Debug module:** Add debug tasks to print variable values:

```
- name: Debug a variable
```

```
  debug:
```

```
    var: some_variable
```

#### 3. **Step mode:** Execute tasks

interactively: `ansible-playbook`

```
playbook.yml
```

```
--step
```

4. **Log files:** Check target system logs for additional insights. This systematic approach ensures efficient troubleshooting.

