

# ANSIBLE

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**1. Which command runs an Ansible ad hoc task against all hosts in inventory using ping module?**

- A. ansible all -m ping
- B. ansible-playbook ping.yml
- C. ansible-ping all
- D. ansible all --ping

**Answer: A**

Explanation: The ‘ansible’ ad hoc CLI targets the host group (‘all’) and executes a module (‘-m ping’), which sends basic connectivity tests to every host in the inventory.

**2. What is the default inventory file path used by Ansible CLI when no inventory is specified?**

- A. /etc/ansible/hosts
- B. ~/.ansible/hosts
- C. /usr/local/ansible/inventory
- D. inventory.ini

**Answer: A**

Explanation: Ansible falls back to ‘/etc/ansible/hosts’ when an inventory isn’t provided via ‘-i’, so populating that file allows commands to run without extra arguments.

**3. Which Ansible module manages packages using the system’s package manager on Debian-based systems?**

- A. yum
- B. apt
- C. package
- D. rpm

**Answer: B**

Explanation: The ‘apt’ module interfaces directly with Debian/Ubuntu’s Advanced Packaging Tool, offering idempotent install/update/remove operations, unlike ‘yum’ or ‘rpm’.

**4. In an Ansible playbook, which keyword defines the remote hosts targeted by the play?**

- A. target
- B. hosts
- C. remote
- D. destination

**Answer: B**

Explanation: The ‘hosts’ field in a play lists inventory groups or patterns, determining

which machines receive the tasks defined in that play.

## 5. What is the purpose of Ansible facts?

- A. Provide role defaults
- B. Store host-specific variables gathered during play execution
- C. Define vault passwords
- D. Control task handlers

**Answer: B**

Explanation: Facts are key-value data discovered by the setup module at run time, giving tasks information such as OS version, IP addresses, or memory.

## 6. How do you execute a specific tag during an Ansible playbook run?

- A. ansible-playbook site.yml -t web
- B. ansible-playbook site.yml --tag web-only
- C. ansible-playbook site.yml run-tag web
- D. ansible-playbook site.yml --only web

**Answer: A**

Explanation: Passing ‘-t’ (or ‘--tags’) filters task execution to those tagged with the given value, letting you run targeted portions of a playbook.

## 7. Which file defines role dependencies in Ansible?

- A. tasks/main.yml
- B. defaults/main.yml
- C. meta/main.yml
- D. handlers/main.yml

**Answer: C**

Explanation: Role metadata stored in ‘meta/main.yml’ can declare dependencies on other roles, ensuring they run first before the current role executes.

## 8. What is the default privilege escalation method used by Ansible when ‘become: true’ is set?

- A. su
- B. sudo
- C. doas
- D. pbrun

**Answer: B**

Explanation: Ansible’s default escalator is ‘sudo’, and unless overridden, ‘become: true’ elevates commands via sudo to gain higher privileges.

## 9. How can you prevent Ansible from gathering facts at the beginning of a play?

- A. gather\_facts: false
- B. skip\_facts: true

- C. facts: off
- D. no\_fact: yes

**Answer: A**

Explanation: Setting 'gather\_facts: false' in the play header skips the automatic fact-gathering step, saving time when facts are unnecessary.

#### **10. Which Ansible module copies files from control node to managed hosts?**

- A. copy
- B. fetch
- C. template
- D. file

**Answer: A**

Explanation: The 'copy' module pushes a local file or inline content to managed hosts, whereas 'fetch' pulls files back to the controller.

#### **11. What is the purpose of 'ansible-config dump' command?**

- A. Validate inventory syntax
- B. Display current Ansible configuration settings
- C. List installed Ansible modules
- D. Export playbook

**Answer: B**

Explanation: 'ansible-config dump' prints the effective configuration by merging defaults, environment variables, and config files so you know which settings are active.

#### **12. Which directive ensures a handler runs only once after all notified tasks complete?**

- A. run\_once: true
- B. notify: handler\_name
- C. when: notified
- D. single\_run: yes

**Answer: B**

Explanation: Tasks use the 'notify' directive to signal handlers, which run once at the end of the play (or when flushed) regardless of how many notifications they receive.

#### **13. What is a valid Ansible variable precedence level highest among the list?**

- A. Inventory variables
- B. Role defaults
- C. Extra vars (-e)
- D. Play vars

**Answer: C**

Explanation: Extra vars provided on the CLI override all other variable sources, making them the highest priority in Ansible's precedence chain.

#### **14. Which module manages services across different init systems?**

- A. service
- B. systemd
- C. init
- D. svc

**Answer: A**

Explanation: The ‘service’ module abstracts service control and delegates to systemd, Upstart, or SysV as appropriate, simplifying start/stop/reload tasks.

## 15. How can you run tasks sequentially on hosts even when using forks?

- A. serial: 1 in play definition
- B. set forks = 1 in ansible.cfg
- C. run\_once: true on all tasks
- D. strategy: free

**Answer: A**

Explanation: Setting ‘serial: 1’ processes hosts in batches of one, creating a rolling update pattern while still allowing parallelism within each host.

## 16. Which strategy runs tasks on hosts as soon as they are ready, without waiting?

- A. linear
- B. free
- C. host\_pinned
- D. async

**Answer: B**

Explanation: The ‘free’ strategy allows hosts to execute tasks independently rather than synchronizing at each step, accelerating long-running operations.

## 17. What is the function of Ansible Vault?

- A. Manage remote file transfers
- B. Encrypt sensitive data such as passwords in playbooks
- C. Create dynamic inventory
- D. Execute Docker containers

**Answer: B**

Explanation: Ansible Vault secures secrets by encrypting YAML files so they can be versioned safely and decrypted at run time with a vault password.

## 18. Which command encrypts an existing file with Ansible Vault?

- A. ansible-vault encrypt file.yml
- B. ansible encrypt file.yml
- C. ansible-playbook --vault file.yml
- D. ansible vault lock file.yml

**Answer: A**

Explanation: ‘ansible-vault encrypt’ transforms plaintext files into vault-encrypted

files that require the vault password to read or use.

**19. How do you run only tasks marked with ‘tags: database’?**

- A. ansible-playbook site.yml -T database
- B. ansible-playbook site.yml --limit database
- C. ansible-playbook site.yml -t database
- D. ansible-playbook site.yml --tags-only database

**Answer: C**

Explanation: ‘-t database’ ensures only tasks tagged as ‘database’ execute, while untagged tasks are skipped.

**20. In an inventory file, which group includes all defined hosts?**

- A. [global]
- B. [all]
- C. [world]
- D. [hosts]

**Answer: B**

Explanation: Ansible automatically creates an ‘all’ group containing every host loaded from the inventory, enabling broad targeting.

**21. What is the purpose of the ‘with\_items’ keyword in Ansible 2.9 and earlier?**

- A. Define loop variable names
- B. Provide a list to iterate tasks over
- C. Register task outputs
- D. Include roles dynamically

**Answer: B**

Explanation: ‘with\_items’ iterates a task over a list, executing the module once per item; in newer versions, ‘loop’ is the preferred syntax.

**22. Which module executes a shell command through a shell interpreter?**

- A. command
- B. shell
- C. raw
- D. script

**Answer: B**

Explanation: The ‘shell’ module runs commands via ‘/bin/sh’ (or configured shell), allowing shell features like pipes or redirection; ‘command’ executes without a shell.

**23. How do you ensure a task runs only when a variable equals a value?**

- A. when: variable == "value"
- B. only\_if: variable == "value"
- C. condition: variable = "value"
- D. equals: variable: value

**Answer: A**

Explanation: ‘when’ applies Jinja2 expressions to conditionally execute tasks, so comparing ‘variable’ to a value gates the task.

**24. How can you include variables from a YAML file in a playbook?**

- A. vars\_files:
  - vars.yml
- B. include\_vars: vars.yml
- C. Both options above
- D. var\_from: vars.yml

**Answer: C**

Explanation: ‘vars\_files’ loads during play definition, while ‘include\_vars’ can load dynamically during a task, both pulling in external variable data.

**25. Which file sets default values for variables within a role?**

- A. defaults/main.yml
- B. vars/main.yml
- C. meta/defaults.yml
- D. group\_vars/defaults.yml

**Answer: A**

Explanation: Role defaults defined in ‘defaults/main.yml’ have the lowest precedence, providing baseline values that other sources can override.

**26. What does setting ‘changed\_when: false’ on a task accomplish?**

- A. Marks task as failed on change
- B. Logs a warning
- C. Forces Ansible to report no change even if module indicates change
- D. Skips task execution

**Answer: C**

Explanation: ‘changed\_when: false’ is used when idempotent tasks report changes incorrectly; it tells Ansible to treat the task as unchanged.

**27. When using ‘register’, where is task output stored?**

- A. In remote host file
- B. In an Ansible fact
- C. In a variable accessible later in the play
- D. In ansible.cfg

**Answer: C**

Explanation: ‘register: result’ saves the module’s return data into a variable so subsequent tasks can reference ‘result.stdout’, ‘result.rc’, etc.

**28. What is the default location for Ansible configuration file if not specified?**

- A. ansible.cfg in current directory

- B. `~/.ansible.cfg`
- C. `/etc/ansible/ansible.cfg`
- D. All of the above in precedence order

**Answer: D**

Explanation: Ansible searches configuration in the current directory first, then the user's home, then '`/etc/ansible/ansible.cfg`', applying the first file found.

### **29. Which module ensures a file has specific permissions, owner, and group?**

- A. `lineinfile`
- B. `file`
- C. `stat`
- D. `ansible.builtin.path`

**Answer: B**

Explanation: The '`file`' module sets attributes such as owner, group, and mode, and can create or remove files/directories as needed.

### **30. How can you dynamically include tasks during runtime based on condition?**

- A. `include_tasks` with `when` clause
- B. `import_tasks` with `when` clause
- C. `include_tasks` only
- D. Not possible

**Answer: A**

Explanation: '`include_tasks`' is evaluated at run time, so combining it with '`when`' ensures the task file is included only when the condition holds; '`import_tasks`' is static.

### **31. What is the difference between '`import_playbook`' and '`include_tasks`'?**

- A. `import_playbook` is static at parse time; `include_tasks` is dynamic at runtime
- B. `import_playbook` runs after `include_tasks`
- C. `include_tasks` supports roles; `import_playbook` doesn't
- D. No difference

**Answer: A**

Explanation: '`import_playbook`' is processed before execution, effectively merging files, while '`include_tasks`' decides at runtime whether to include the tasks.

### **32. Which variable contains the hostname of the current host in play?**

- A. `inventory_hostname`
- B. `current_host`
- C. `ansible_host`
- D. `host_name`

**Answer: A**

Explanation: '`inventory_hostname`' reflects the name as defined in the inventory file,

commonly used for logging or conditional logic.

### 33. What does the ‘delegate\_to’ keyword do?

- A. Run task on specified host instead of target host
- B. Assign handler to variable
- C. Create new play
- D. Set default gateway

**Answer: A**

Explanation: ‘delegate\_to’ temporarily redirects task execution to another host (often localhost) while still using variables and facts from the original host.

### 34. When using ‘ansible-galaxy init’, what is created?

- A. New virtual environment
- B. Role skeleton with standard directory structure
- C. Inventory template
- D. Playbook snippet

**Answer: B**

Explanation: ‘ansible-galaxy init role\_name’ scaffolds a role with expected directories like tasks, handlers, templates, and defaults.

### 35. How can you override role variables for a specific play?

- A. Place values in defaults/main.yml
- B. Use vars: block in play
- C. Modify meta/main.yml
- D. Add to handlers

**Answer: B**

Explanation: Variables defined in the play’s ‘vars’ section override role defaults and even vars, giving control for that specific play invocation.

### 36. Which module retrieves information without changing remote state?

- A. gather\_facts
- B. stat
- C. copy
- D. template

**Answer: B**

Explanation: The ‘stat’ module inspects file metadata without modifying anything, making it safe for checks prior to conditional tasks.

### 37. What is an Ansible callback plugin used for?

- A. Extending output or logging behavior during play execution
- B. Encrypting variables
- C. Creating dynamic inventory
- D. Managing roles

**Answer: A**

Explanation: Callback plugins hook into events like task start or result to customize output, integrate with chat systems, or collect analytics.

**38. How do you limit playbook execution to a subset of hosts?**

- A. ansible-playbook site.yml --hosts web
- B. ansible-playbook site.yml --limit web
- C. ansible-playbook site.yml --group web
- D. ansible-playbook site.yml --subset web

**Answer: B**

Explanation: The '--limit' flag restricts execution to matching hosts or groups, offering quick host selection without modifying inventories.

**39. Which lookup plugin reads values from environment variables?**

- A. lookup('env', 'VAR')
- B. lookup('file', 'VAR')
- C. lookup('vars', 'VAR')
- D. lookup('ini', 'VAR')

**Answer: A**

Explanation: The 'env' lookup fetches environment variable values, which is helpful for injecting secrets or dynamic configuration.

**40. How can you run a task asynchronously and poll for completion?**

- A. async: 300 poll: 10
- B. run\_async: true
- C. wait\_for: async
- D. strategy: async

**Answer: A**

Explanation: Setting 'async' defines the timeout, and 'poll' sets the polling interval; Ansible runs the task in the background while continuing.

**41. What does 'ansible-galaxy install' do?**

- A. Installs Ansible engine
- B. Installs roles or collections from Galaxy or other sources
- C. Installs Python dependencies
- D. Installs inventory plugins

**Answer: B**

Explanation: 'ansible-galaxy install' pulls published roles or collections into your roles path so they can be used in playbooks.

**42. Which command lists the hosts in inventory that match a pattern?**

- A. ansible-inventory --list pattern
- B. ansible all --hosts pattern

- C. ansible-inventory --graph
- D. ansible-inventory --list | grep pattern

**Answer: C**

Explanation: ‘ansible-inventory --graph’ shows inventory groups as a tree, making it easy to see which hosts belong where; combined with ‘--host’, it can expand details.

#### **43. What is the function of ‘become\_user’?**

- A. Set default SSH user
- B. Define user to switch to when privilege escalation is used
- C. Set environment user variable
- D. Manage remote user creation

**Answer: B**

Explanation: ‘become\_user’ identifies which account Ansible should escalate to (e.g., root), overriding the default target user.

#### **44. Which module is best for managing line entries in configuration files?**

- A. lineinfile
- B. blockinfile
- C. copy
- D. template

**Answer: A**

Explanation: ‘lineinfile’ ensures specific lines exist or are absent in a file, making it ideal for editing config entries without replacing the whole file.

#### **45. What is ‘ansible-pull’ primarily used for?**

- A. Running playbooks from Git on remote nodes in pull mode
- B. Fetching logs from hosts
- C. Pulling modules from Galaxy
- D. Pulling inventory

**Answer: A**

Explanation: ‘ansible-pull’ inverts the control model by having nodes fetch playbooks from a repo and apply them locally, useful for decentralized automation.

#### **46. To ensure idempotence, modules should:**

- A. Always run commands forcefully
- B. Report change only when state differs
- C. Avoid returning JSON
- D. Require manual rollback

**Answer: B**

Explanation: Idempotent modules detect the current state and only report changes when a modification was necessary, allowing safe re-runs.

#### **47. Which directive allows you to set retry attempts for failed tasks?**

- A. retries: 3 with delay: 5
- B. max\_failures: 3
- C. repeat: 3
- D. attempts: 3

**Answer: A**

Explanation: Using ‘retries’ combined with ‘delay’ tells Ansible to re-run a task multiple times with pauses, which is handy for transient issues.

#### **48. What is the effect of ‘serial: 3’ in a play?**

- A. Limit concurrency to 3 hosts per batch
- B. Run first 3 tasks
- C. Retry tasks 3 times
- D. Use 3 forks

**Answer: A**

Explanation: ‘serial: 3’ processes hosts in groups of three, useful for rolling updates or canary deployments where you don’t want to touch every host at once.

#### **49. Which module manages Docker containers in Ansible?**

- A. docker\_container
- B. container
- C. docker
- D. compose

**Answer: A**

Explanation: The ‘docker\_container’ module (from ‘community.docker’ collection) provides idempotent container management, supporting creation, state changes, and removal.

#### **50. How do you include a role in a playbook?**

- A. roles:
  - role\_name
- B. include\_role: role\_name
- C. Both above methods
- D. import\_role: role\_name

**Answer: C**

Explanation: Roles can be added at the play level using the ‘roles’ list or included dynamically with ‘include\_role’, giving flexibility in how role tasks are loaded.

#### **51. What does ‘vars\_prompt’ allow you to do?**

- A. Prompt user for variable values during play execution
- B. Load vars from file
- C. Prompt remote hosts
- D. Delay variable assignment

**Answer: A**

Explanation: ‘vars\_prompt’ prompts for values (optionally hidden) before play execution, letting operators supply secrets or choices interactively.

## 52. Which collection namespace contains built-in modules in Ansible 2.10+?

- A. ansible.core
- B. ansible.base
- C. ansible.builtin
- D. ansible.main

**Answer: C**

Explanation: Core modules moved into the ‘ansible.builtin’ collection, so fully qualified names like ‘ansible.builtin.copy’ refer to built-in content.

## 53. How do you skip tags when running a playbook?

- A. ansible-playbook site.yml --skip-tags "debug"
- B. ansible-playbook site.yml --omit-tags "debug"
- C. ansible-playbook site.yml --ignore-tags "debug"
- D. ansible-playbook site.yml -S debug

**Answer: A**

Explanation: ‘--skip-tags’ excludes tasks with those tags, enabling you to avoid optional or disruptive tasks during a run.

## 54. Which plugin provides dynamic inventory from cloud providers?

- A. Inventory plugins such as aws\_ec2
- B. Callback plugins
- C. Lookup plugins
- D. Filter plugins

**Answer: A**

Explanation: Inventory plugins integrate with providers to discover hosts dynamically, replacing static inventory files for cloud environments.

## 55. What do filter plugins do in Ansible?

- A. Transform data within templates or expressions
- B. Control task flow
- C. Fetch remote content
- D. Manage inventory

**Answer: A**

Explanation: Filters augment Jinja2 by transforming variables (e.g., ‘|lower’, custom filters), making data presentation and manipulation easier in templates.

## 56. How can you ensure a handler runs immediately after being notified?

- A. notify: handler\_name immediate
- B. meta: flush\_handlers
- C. run\_once: handler

D. When clause on handler

**Answer: B**

Explanation: ‘meta: flush\_handlers’ forces handlers queued so far to execute immediately, useful before continuing with tasks that depend on the change.

## 57. Which module downloads content from an HTTP endpoint?

- A. uri
- B. get\_url
- C. url\_fetch
- D. web

**Answer: B**

Explanation: ‘get\_url’ retrieves files via HTTP/HTTPS and can validate checksums, while ‘uri’ is geared toward API interactions.

## 58. What does the ‘delegate\_facts: true’ setting do?

- A. Save registered facts to delegated host instead of original host
- B. Duplicate facts to all hosts
- C. Remove old facts
- D. Share facts across roles

**Answer: A**

Explanation: When delegating a task, ‘delegate\_facts: true’ ensures gathered facts apply to the delegated host, which is important when capturing data about that host.

## 59. Which command tests syntax errors without executing tasks?

- A. ansible-playbook play.yml --syntax-check
- B. ansible-playbook play.yml --dry-run
- C. ansible-playbook play.yml --check
- D. ansible-playbook play.yml --lint

**Answer: A**

Explanation: ‘--syntax-check’ parses playbooks for YAML and Ansible syntax issues, while ‘--check’ performs a dry run that still contacts hosts.

## 60. What is the effect of ‘check\_mode: yes’?

- A. Skips tasks
- B. Simulates changes without modifying remote systems
- C. Performs syntax check
- D. Enables asynchronous operations

**Answer: B**

Explanation: Check mode (dry run) shows what changes would happen by querying state but avoids executing altering actions, aiding validation.

## 61. Which module ensures an SSH key is present for a user?

- A. authorized\_key

- B. user\_key
- C. ssh\_key
- D. key\_manage

**Answer: A**

Explanation: ‘authorized\_key’ manages entries in a user’s authorized\_keys file, enforcing presence or absence of specific public keys.

## 62. How can you include a Jinja2 template file in a play?

- A. Use template module pointing to src and dest
- B. Use copy with jinja flag
- C. Use var\_files
- D. Use include\_template

**Answer: A**

Explanation: The ‘template’ module processes Jinja2 templates, rendering them with current variables and placing the rendered file on the remote host.

## 63. What is the default directory for group variables?

- A. group\_vars/
- B. vars/group/
- C. inventory/group/
- D. defaults/group/

**Answer: A**

Explanation: Group variable files reside under ‘group\_vars/<group>.yml’, automatically loaded for hosts in that group.

## 64. Which plugin architecture handles custom connection methods?

- A. Connection plugins
- B. Callback plugins
- C. Strategy plugins
- D. Action plugins

**Answer: A**

Explanation: Connection plugins define how Ansible talks to hosts (SSH, WinRM, local), allowing third-party extensions for specialized transports.

## 65. How can you re-run a playbook only on hosts that failed previously?

- A. Use --limit @/path/to/last\_playbook.retry
- B. Use --retry-only
- C. Use --failed-only
- D. Use --partial

**Answer: A**

Explanation: When a run fails, Ansible writes a ‘.retry’ file listing failed hosts; passing it to ‘--limit’ replays just those hosts.

## **66. Which module manages users on Linux systems?**

- A. account
- B. user
- C. passwd
- D. adduser

**Answer: B**

Explanation: The ‘user’ module is cross-platform (Linux, BSD, macOS) for managing user accounts, passwords, and groups.

## **67. How do you debug variable content during a play?**

- A. Use debug module with var parameter
- B. Use print statement
- C. Use log module
- D. Use output module

**Answer: A**

Explanation: ‘debug: var=variable\_name’ prints the variable’s value to stdout, aiding troubleshooting without altering remote systems.

## **68. Which directive allows nested loops?**

- A. with\_nested
- B. loop\_nested
- C. nested\_list
- D. multi\_loop

**Answer: A**

Explanation: ‘with\_nested’ iterates over Cartesian products of multiple lists, executing tasks for every combination.

## **69. What does ‘force\_handlers: true’ enforce?**

- A. Handlers run even if play fails before completion
- B. Handlers execute only on failure
- C. Handlers skip duplicates
- D. Handlers log output

**Answer: A**

Explanation: With ‘force\_handlers’, Ansible runs notified handlers even when the play aborted due to errors, ensuring clean-up or required tasks still happen.

## **70. How can you create custom module logic in Python?**

- A. Place module in library/ directory and call via Ansible
- B. Modify ansible.cfg
- C. Create new role
- D. Use filter plugin

**Answer: A**

Explanation: Custom modules stored in ‘library’ alongside playbooks are automatically discoverable, letting you encapsulate bespoke automation logic.

## 71. Which process ensures modules run on controller rather than target host?

- A. Using local\_action
- B. Using delegate\_to: localhost
- C. Setting connection: local
- D. All of the above

**Answer: D**

Explanation: Each method targets the controller machine, allowing tasks like API calls or file manipulation on the control node instead of remote hosts.

## 72. Which module ensures a Git repository is checked out on a host?

- A. git
- B. vcs
- C. repo
- D. checkout

**Answer: A**

Explanation: The ‘git’ module clones or updates repositories idempotently, supporting branch, version, and SSH-based access options.

## 73. How do you include host-specific variables using directory hierarchy?

- A. host\_vars/hostname.yml
- B. vars/host/hostname.yml
- C. hosts.d/hostname.cfg
- D. inventory/host.ini

**Answer: A**

Explanation: ‘host\_vars/<hostname>.yml’ files store per-host variables automatically loaded for matching inventory hosts.

## 74. Which command displays information about an Ansible collection?

- A. ansible-galaxy collection info namespace.collection
- B. ansible collection show namespace.collection
- C. ansible info collection namespace.collection
- D. ansible collection describe namespace.collection

**Answer: A**

Explanation: ‘ansible-galaxy collection info’ queries metadata such as version, dependencies, and documentation of a given collection.

## 75. What does ‘loop\_control’ allow you to customize?

- A. Loop variable name, pause, label formatting
- B. Handler order
- C. Fork count

D. Inventory precedence

**Answer: A**

Explanation: 'loop\_control' sets options like 'loop\_var', human-readable 'label', or 'pause', enhancing readability and pacing of loops.

**76. Which filter converts strings to uppercase in Jinja2 templates?**

- A. |upper
- B. |uppercase
- C. |capitalize
- D. |upcase

**Answer: A**

Explanation: Applying '|upper' transforms a string to uppercase in templates; other filters adjust capitalization differently.

**77. How can you retry a failed task after correcting issue without rerunning entire play?**

- A. Use --start-at-task "Task Name"
- B. Use --continue-task
- C. Use --retry
- D. Use --task-from

**Answer: A**

Explanation: '--start-at-task' resumes execution from the named task, skipping earlier tasks that already succeeded.

**78. What is the extension for Ansible playbooks typically?**

- A. .yaml or .yml
- B. .json
- C. .ini
- D. .cfg

**Answer: A**

Explanation: Playbooks are structured YAML files, so '.yaml' or '.yml' extensions are standard to indicate the format.

**79. Which module manages SELinux boolean values?**

- A. seboolean
- B. selinux\_manage
- C. selinux\_boolean
- D. security\_boolean

**Answer: A**

Explanation: The 'seboolean' module flips SELinux booleans idempotently, aligning security policy with desired state.

**80. How can you ensure a task fails with custom message when condition not met?**

- A. fail module with msg parameter

- B. debug module
- C. assert module
- D. Both fail and assert modules

**Answer: D**

Explanation: ‘fail’ explicitly aborts with a message, while ‘assert’ checks expressions and fails when assertions aren’t met, both offering controlled failure.

#### **81. What does the ‘include\_role’ module do?**

- A. Dynamically includes role tasks at runtime
- B. Statically includes role tasks
- C. Installs roles
- D. Executes role handlers only

**Answer: A**

Explanation: ‘include\_role’ loads a role dynamically, allowing you to pass variables and conditionally execute role logic within a play.

#### **82. Which module waits for a port to become available?**

- A. wait\_for
- B. wait\_port
- C. port\_check
- D. socket\_wait

**Answer: A**

Explanation: ‘wait\_for’ can poll for open ports, timeouts, or file existence, making it ideal for service readiness checks.

#### **83. How do you execute a playbook in check mode globally?**

- A. ansible-playbook site.yml --check
- B. ansible-playbook site.yml --dry-run
- C. ansible-playbook site.yml --simulate
- D. ansible-playbook site.yml --no-change

**Answer: A**

Explanation: ‘--check’ activates dry-run mode for the whole playbook, showing pending changes while avoiding modification.

#### **84. Which strategy continues running tasks on remaining hosts even if some fail?**

- A. free
- B. linear
- C. host\_pinned
- D. Strategy is always resilient

**Answer: B**

Explanation: The default ‘linear’ strategy moves hosts through tasks step-by-step, skipping failed hosts but continuing with the rest.

**85. What does ‘any\_errors\_fatal: true’ do?**

- A. Aborts play for all hosts if any host fails
- B. Retries failed tasks
- C. Skips failed hosts
- D. Sends notifications

**Answer: A**

Explanation: Setting ‘any\_errors\_fatal’ stops further execution once any host fails, ensuring consistent rollbacks or manual intervention.

**86. Which module ensures a ZIP archive is extracted?**

- A. unarchive
- B. unzip
- C. archive\_extract
- D. compressed

**Answer: A**

Explanation: ‘unarchive’ handles extracting tar or zip archives (optionally from remote sources), managing idempotence and owner/mode.

**87. How can you define environment variables for tasks?**

- A. environment:  
    VAR: value
- B. env\_vars:  
    VAR: value
- C. vars:  
    env\_VAR: value
- D. options.env:  
    VAR: value

**Answer: A**

Explanation: The ‘environment’ key supplies shell environment variables for modules executed within that task or block.

**88. What is the path to configure connection defaults per group?**

- A. group\_vars/groupname.yml
- B. host\_vars/groupname.yml
- C. vars/group.yml
- D. defaults/group.yml

**Answer: A**

Explanation: Connection settings like ‘ansible\_user’ or ‘ansible\_port’ can live in group variable files, affecting all hosts in the group.

**89. Which module ensures cron job presence?**

- A. cron

- B. schedule
- C. crontab
- D. job

**Answer: A**

Explanation: The ‘cron’ module manages crontab entries idempotently, adding, updating, or removing scheduled jobs.

## 90. How do you prevent tasks from running on certain hosts?

- A. when: inventory\_hostname not in groups[‘excluded’]
- B. skip\_hosts:
- C. avoid:
- D. limit exclude

**Answer: A**

Explanation: Using a ‘when’ condition referencing inventory groups filters execution by excluding specific hosts.

## 91. What does ‘ansible-console’ provide?

- A. Interactive REPL for running ad hoc commands
- B. Web dashboard
- C. Log viewer
- D. Vault editor

**Answer: A**

Explanation: ‘ansible-console’ offers a command-line shell to run modules interactively against selected hosts, speeding experimentation.

## 92. Which module ensures file content matches exact string?

- A. copy with content parameter
- B. lineinfile
- C. blockinfile
- D. template

**Answer: A**

Explanation: Using ‘copy’ with the ‘content’ parameter overwrites the file with the provided string, guaranteeing exact content.

## 93. How can you control parallelism from the command line?

- A. ansible-playbook site.yml -f 5
- B. ansible-playbook site.yml --forks 5
- C. Both A and B
- D. Not configurable

**Answer: C**

Explanation: The ‘-f--forks’ flag sets how many hosts Ansible manages in parallel, overriding the default in configuration.

**94. Which inventory plugin reads hosts from YAML file?**

- A. yaml
- B. ini
- C. script
- D. constructed

**Answer: A**

Explanation: The YAML inventory plugin interprets YAML files describing hosts, groups, and variables, offering a structured alternative to INI.

**95. How do you ensure handlers run even in check mode?**

- A. check\_mode: no on handler
- B. run\_once: true
- C. meta: flush\_handlers in check mode
- D. add ignore\_check\_mode: true

**Answer: D**

Explanation: Setting 'ignore\_check\_mode: true' on tasks or handlers forces them to execute even during check mode, which is often needed for notifications.

**96. Which command updates all installed collections to latest versions?**

- A. ansible-galaxy collection install -r requirements.yml --force
- B. ansible-galaxy collection upgrade -r requirements.yml
- C. ansible-galaxy collection install --upgrade-all
- D. ansible-galaxy collection update

**Answer: B**

Explanation: 'collection upgrade' reads requirements and pulls newer versions, refreshing existing installations per constraints.

**97. What does 'verbosity' control when running Ansible?**

- A. Logging output detail with -v/-vv flags
- B. Task order
- C. Role errors
- D. Module caching

**Answer: A**

Explanation: Adding more '-v' flags increases verbosity, revealing details like module arguments, SSH debugging, or diff output.

**98. How can you include a task file multiple times with different variables?**

- A. include\_tasks with vars parameter
- B. import\_tasks with vars parameter
- C. copy module
- D. loop on include

**Answer: A**

Explanation: ‘include\_tasks’ accepts a ‘vars’ dictionary, letting you reuse task files with different inputs within the same play.

### **99. Which filter checks if variable is defined?**

- A. is defined
- B. defined()
- C. exists()
- D. present()

**Answer: A**

Explanation: Jinja’s ‘is defined’ test ensures a variable exists before referencing it, preventing undefined-variable errors.

### **100. How do you run ansible-lint on a playbook?**

- A. ansible-lint playbook.yml
- B. ansible playbook lint playbook.yml
- C. ansible-lint --playbook playbook.yml
- D. ansible-lint -f playbook.yml

**Answer: A**

Explanation: ‘ansible-lint’ analyzes playbooks for best practices and potential issues, helping maintain consistent quality.