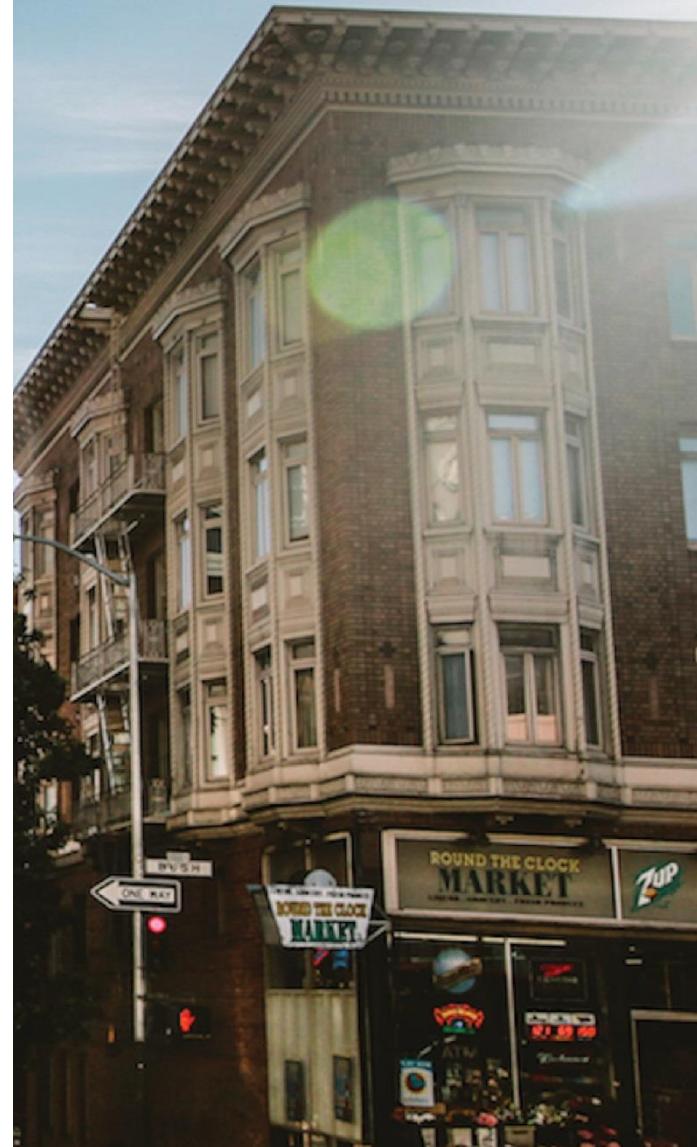


Ansible Ad Hoc Commands and Their Outputs 🚀 ⚡

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JANUARY 3

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This comprehensive guide details common Ansible ad hoc commands and their expected outputs, organized by functionality.

Basic System Checks

1. ansible all -m ping

- Description: Pings all hosts to check if they are reachable via SSH.
- Output: SUCCESS if the hosts are reachable.

2. ansible all -m command -a uptime

- Description: Runs the uptime command on all hosts.
- Output: Displays the system uptime for each host.

3. ansible all -m shell -a "uptime" --become

- Description: Runs the uptime command with elevated privileges.
- Output: Displays the system uptime for each host.

4. ansible all -m shell -a "uptime | awk -F'load average:' '{print \\$2}'"

- Description: Runs the uptime command and uses awk to extract and print the load average on all hosts.
- Output: Displays the load average for each host.

Difference Between Shell and Command Module:

- **Shell Module:** Executes instructions using /bin/sh, supports shell operators like <,>, |, &&, ||.
- **Command Module:** Executes commands without using a shell, does not support shell operators.

Package Management

5. **ansible all -m apt -a "name=wget state=present" --become**

- Description: Installs the wget package on all hosts using the apt package manager.
- Output: SUCCESS if the package is installed.

6. **ansible prod -m apt -a "name=wget state=present" --become -f 10**

- Description: Installs the wget package on 10 hosts in parallel in the prod group.
- Output: SUCCESS if the package is installed on each host.

7. **ansible all -m apt -a "name=wget state=absent" -e gather_facts=false --become**

- Description: Removes the wget package from all hosts.
- Output: SUCCESS if the package is removed.

File Operations

8. ansible all -m copy -a "src=index.html dest=/tmp"

- Description: Copies the index.html file to the /tmp directory on all hosts.
- Output: SUCCESS if the file is copied.

9. ansible all -m command -a ls /tmp

- Description: Lists the contents of the /tmp directory on all hosts.
- Output: Displays the contents of the /tmp directory.

10.ansible all -m file -a "dest=/tmp/index.html state=file" -e gather_facts=false

- Description: Checks if the index.html file exists at the specified path.
- Output: SUCCESS if the file exists.

11.ansible all -m file -a "dest=/tmp/index.html mode=755 group=root" -e gather_facts=false --become

- Description: Changes the permissions and group of the index.html file.
- Output: SUCCESS if the permissions and group are changed.

12.ansible all -m lineinfile -a "path=/tmp/index.html regexp='^%Welcome' line=Welcome state=present" -e gather_facts=false --become

- Description: Ensures that the line "Welcome" is present in the /tmp/index.html file on all hosts. If a line starting with "Welcome" is not found, it will be added.
- Output: SUCCESS if the line is present or added.

13.ansible all -m replace -a "path=/tmp/index.html regexp='Welcome' replace='Kunal'" -e gather_facts=false --become

- Description: Replaces occurrences of the word "Welcome" with "Kunal" in the /tmp/index.html file on all hosts.

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- Output: SUCCESS if the replacement is made.

14.ansible all -m lineinfile -a "path=/tmp/index.html regexp='Welcome' line='Kunal'" -e gather_facts=false --become

- Description: Ensures that the line "Kunal" is present in the /tmp/index.html file on all hosts. If a line containing "Welcome" is found, it will be replaced with "Kunal".
- Output: SUCCESS if the line is present or replaced.

Service Management

15.ansible all -m shell -a "systemctl --type=service --state=active"

- Description: Lists all active services on all hosts.
- Output: Displays the active services.

16.ansible all -m shell -a "systemctl --type=service --state=active | grep ssh"

- Description: Checks if the SSH service is active on all hosts.
- Output: Displays the SSH service if it is active.

Module Documentation

17.ansible-doc -l

- Description: Lists all available Ansible modules.
- Output: Displays a list of all modules.