

.Ansible commands to communicate with AWS

1. Ansible Ad-Hoc Commands

Command	Use / Task
<code>ansible all -m ping</code>	Checks if all hosts are reachable via SSH
<code>ansible webserver -m ping</code>	Pings only hosts in the "webserver" group
<code>ansible all -m command -a "uptime"</code>	Gets uptime from all hosts
<code>ansible all -m command -a "df -h"</code>	Checks disk usage on all hosts
<code>ansible all -m command -a "free -m"</code>	Shows memory usage
<code>ansible all -m shell -a "echo Hello from \$(hostname)"</code>	Runs shell command and prints hostname
<code>ansible all -m copy -a "src=/etc/hosts dest=/tmp/hosts"</code>	Copies file from master to all slaves
<code>ansible all -m file -a "path=/tmp/test_dir state=directory mode=0755"</code>	Creates a directory on all nodes
<code>ansible all -m yum -a "name=httpd state=present"</code>	Installs <code>httpd</code> on RedHat/CentOS
<code>ansible all -m apt -a "name=nginx state=present"</code>	Installs <code>nginx</code> on Debian/Ubuntu
<code>ansible all -m service -a "name=nginx state=started"</code>	Starts <code>nginx</code> service
<code>ansible all -m service -a "name=nginx state=stopped"</code>	Stops <code>nginx</code> service

```
ansible all -m reboot
```

Reboots all machines (be cautious)

◆ 2. Ansible Inventory Commands

Command	Use / Task
<pre>ansible-inventory --list -i hosts.ini</pre>	Displays parsed inventory as JSON
<pre>ansible-inventory --graph -i hosts.ini</pre>	Shows a tree view of inventory

◆ 3. Ansible Playbook Commands

Command	Use / Task
<pre>ansible-playbook -i hosts.ini playbook.yml</pre>	Runs a playbook on specified inventory
<pre>ansible-playbook --syntax-check playbook.yml</pre>	Checks playbook syntax
<pre>ansible-playbook -i hosts.ini playbook.yml --check</pre>	Simulates the playbook (dry-run)
<pre>ansible-playbook -i hosts.ini playbook.yml --start-at-task="Install Packages"</pre>	Starts execution from a specific task

◆ 4. Managing Facts (System Info)

Command	Use / Task
<pre>ansible all -m setup</pre>	Gathers system information (facts) from all hosts
<pre>ansible all -m setup -a 'filter=ansible_os_family'</pre>	Shows only OS family of the hosts

```
ansible all -m setup -a  
'filter=ansible_eth*'
```

Shows Ethernet interface facts

◆ 5. User and Permissions

Command	Use / Task
<code>ansible all -m user -a "name=deploy state=present"</code>	Creates user deploy
<code>ansible all -m user -a "name=deploy state=absent"</code>	Deletes user deploy
<code>ansible all -m file -a "path=/tmp/file.txt state=touch"</code>	Creates an empty file
<code>ansible all -m file -a "path=/tmp/file.txt state=absent"</code>	Deletes a file
<code>ansible all -m authorized_key -a "user=ubuntu key='{{ lookup('file', '/home/user/.ssh/id_rsa.pub') }}'"</code>	Adds SSH key to user

◆ 6. Advanced: Tags, Limits, and Forks

Command	Use / Task
<code>ansible-playbook -i hosts.ini playbook.yml --tags install</code>	Runs only tasks with tags: install
<code>ansible-playbook -i hosts.ini playbook.yml --limit web1</code>	Runs playbook only on host web1
<code>ansible-playbook -i hosts.ini playbook.yml --forks 10</code>	Runs 10 parallel connections

◆ 7. Vault (Encrypting Secrets)

Command	Use / Task
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<code>ansible-vault create secret.yml</code>	Creates an encrypted file
<code>ansible-vault edit secret.yml</code>	Opens encrypted file for editing
<code>ansible-vault view secret.yml</code>	Views encrypted file
<code>ansible-playbook site.yml</code> <code>--ask-vault-pass</code>	Runs playbook using a vault password
<code>ansible-vault encrypt vars.yml</code>	Encrypts an existing file
<code>ansible-vault decrypt vars.yml</code>	Decrypts the file

Extra Tips

Use `-b` or `--become` for sudo/root privileges:

```
ansible all -m apt -a "name=nginx state=present" -b
```

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Set default user in `ansible.cfg`:

```
[defaults]
remote_user = ubuntu
inventory = ./hosts.ini
```

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