Ansible Commands Cheat Sheet for Linux Administration

Installation

```
# Ubuntu/Debian
sudo apt update && sudo apt install ansible -y


# RHEL/CentOS
sudo dnf install epel-release -y
sudo dnf install ansible -y


# Verify installation
ansible --version
```

Inventory File Example

```
[web]
web1.example.com
web2.example.com


[db]
db1.example.com


[all:vars]
ansible_user=ubuntu
ansible_ssh_private_key_file=~/.ssh/id_rsa
```

Ad-Hoc Commands

```
# Ping all hosts
ansible all -i hosts.ini -m ping


# Check uptime on all hosts
ansible all -i hosts.ini -a "uptime"
```

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```
# Install nginx on web group
ansible web -m apt -a "name=nginx state=present" -b


# Reboot all servers
ansible all -m reboot -b
```

Sample Playbook

```yaml
- name: Install and start NGINX
  hosts: web
  become: yes
  tasks:
    - name: Install NGINX
      apt:
        name: nginx
        state: present
    - name: Start NGINX
      service:
        name: nginx
        state: started
        enabled: yes
```

Ansible Vault

```
# Create encrypted file
ansible-vault create secrets.yml


# Edit encrypted file
ansible-vault edit secrets.yml


# Run playbook with vault
ansible-playbook --ask-vault-pass secure.yml
```

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Commonly Used Modules

```
apt      - Manage packages on Debian/Ubuntu
yum/dnf  - Manage packages on RHEL/CentOS
service  - Manage system services
copy     - Copy files to target nodes
template - Deploy Jinja2 template files
file     - Manage file properties and permissions
user     - Create and manage users
command  - Run raw shell commands
setup    - Gather system facts
```