

# Linux User Creation & Sudo Access Using Ansible

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This document provides a complete, step-by-step implementation guide for creating a Linux user and granting sudo access across multiple servers using Ansible automation from a centralized Ansible control node.

## 1. Prerequisites

- Ansible installed on control server
- Python 3 available on all target hosts
- SSH connectivity to target servers
- touadmin user with sudo privileges

Verify Ansible:

```
ansible --version
```

## 2. Directory Structure

```
/home/venkata/ansible/  
■■■ inventory.ini  
■■■ add_user_venkata.yml
```

## 3. Inventory Configuration

The inventory file lists all target servers under the group **mongo\_servers**.

```
[mongo_servers]  
192.168.61.165  
192.168.61.185  
192.168.61.135  
...
```

## 4. Connectivity Test

```
ansible -i inventory.ini mongo_servers -m ping -u touadmin --ask-pass
```

## 5. Password Hash Generation

```
python3 - <import crypt  
print(crypt.crypt("xuv7ooax5", crypt.mksalt(crypt.METHOD_SHA512)))  
EOF
```

## 6. Ansible Playbook

```
---  
- name: Create Linux user venkata and grant sudo access  
hosts: mongo_servers  
become: yes  
  
vars:  
username: venkata  
user_password: "$6$HASH_REDACTED"  
  
tasks:  
- name: Ensure venkata user exists  
user:  
name: "{{ username }}"  
password: "{{ user_password }}"  
shell: /bin/bash  
create_home: yes  
state: present  
  
- name: Add venkata to sudo group  
user:  
name: "{{ username }}"  
groups: sudo  
append: yes
```

## 7. Playbook Execution

```
ansible-playbook -i inventory.ini add_user_venkata.yml -u touadmin --ask-pass --ask-become-pass
```

## 8. Verification

```
id venkata  
groups venkata
```

## 9. Idempotency

The playbook is idempotent. Re-running it will not create duplicate users or reapply changes unnecessarily.

Regards,  
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