




## Ansible Galaxy – Your Gateway to Reusable Roles

**Ansible Galaxy** is the **official community hub** for finding, sharing, and managing Ansible roles and collections.

It allows you to:

-  **Download roles** developed by others
-  **Share your own** roles with the community
-  Use **collections** of roles, modules, and plugins

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 **Website:** <https://galaxy.ansible.com>

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## Key Concepts

### **Role:**

A set of reusable tasks, variables, templates, etc., bundled in a standard directory structure.

### **Collection:**

A larger bundle containing roles, modules, plugins, and documentation (like an Ansible package).

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## Common **ansible-galaxy** Commands

### ♦ **Install a Role**

```
ansible-galaxy install geerlingguy.nginx
```

This installs the **nginx** role by **geerlingguy** from Ansible Galaxy.

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### ♦ Install Roles from a Requirements File

```
# requirements.yml
- src: geerlingguy.nginx
  version: 2.7.0
```

Then run:

```
ansible-galaxy install -r requirements.yml
```

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### ♦ Create a New Role Skeleton

```
ansible-galaxy init my_custom_role
```

Creates a role structure like this:

```
my_custom_role/
├── defaults/
├── files/
├── handlers/
├── meta/
├── tasks/
├── templates/
├── tests/
└── vars/
```

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### ♦ Publish a Role to Galaxy

1. Create an account on [Galaxy](#)
  2. Push your role to a public GitHub repo
  3. Import the role on Galaxy via your GitHub link
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### ♦ Install a Collection

```
ansible-galaxy collection install community.general
```

Use modules from that collection:

- name: Use ping from collection  
community.general.ping:
- 







## Example: Use a Galaxy Role in a Playbook

- name: Install NGINX using Galaxy role  
hosts: web  
roles:
    - geerlingguy.nginx
- 



## Best Practices

-  Pin versions in `requirements.yml`
  -  Use collections for enterprise projects
  -  Test Galaxy roles locally before using in production
  -  Clean unused roles: `ansible-galaxy remove <role>`
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## Summary

Feature	Description
<code>ansible-galaxy install</code>	Download roles from Galaxy
<code>ansible-galaxy init</code>	Create role skeleton
<code>ansible-galaxy list</code>	List installed roles

`requirements.yml`      Define multiple roles with versions

Collections              Bundled roles, plugins, modules

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