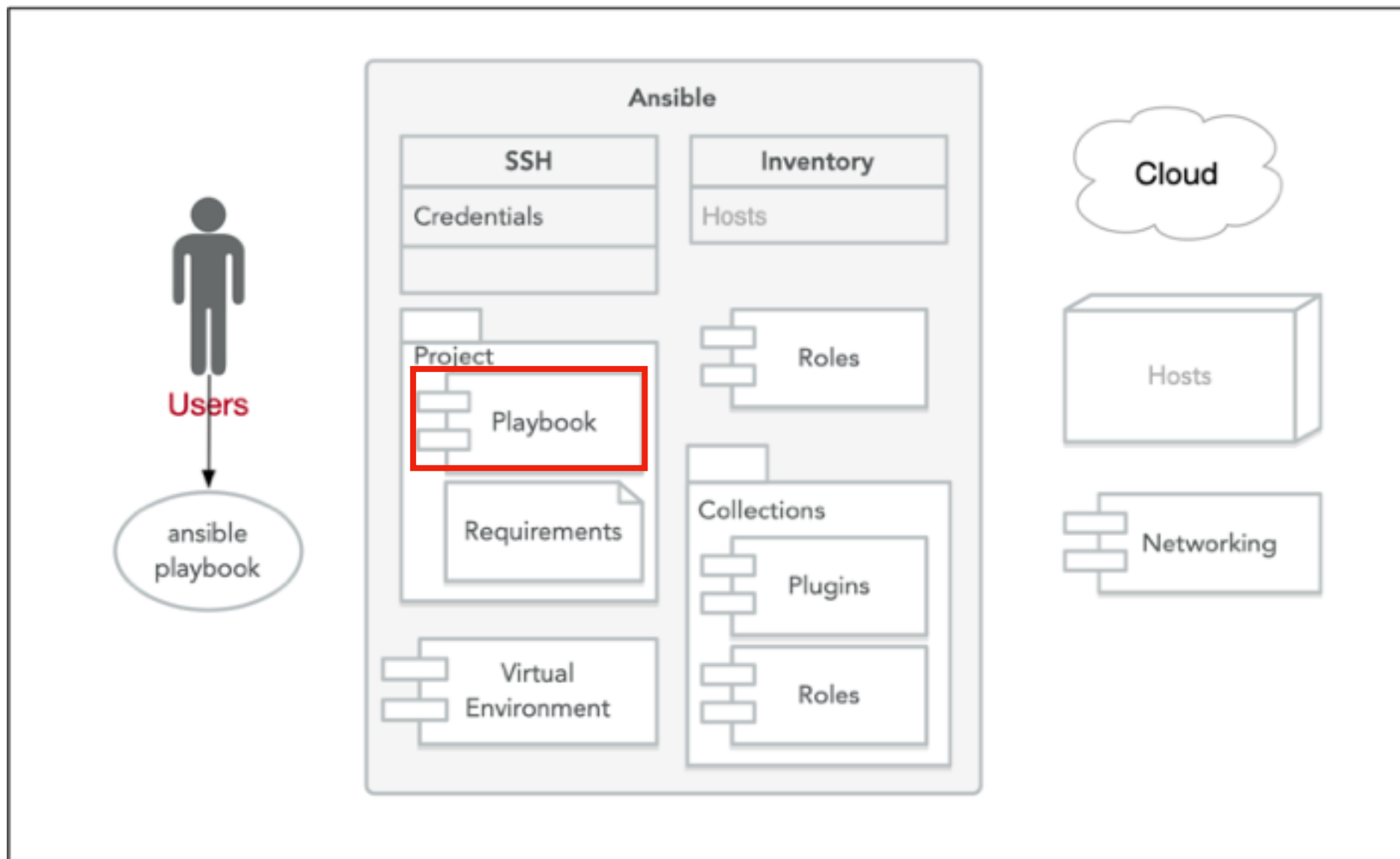# How to create a **Playbook?**

A **Playbook** is a YAML file in the Project folder

Playbooks contain **Plays** for groups of hosts

Plays contain **Roles**

Roles runs tasks to converge to desired state

A project can depend on external/shared roles with **Requirements**

A playbook can run in several ways

Example

```
#!/usr/bin/env ansible-playbook
---
# Create a strong ssh-key: ssh-keygen -t id_ed25519 -a 500 -C $USER
# Usage: ./ssh-copy-id.yml -k -i <inventory>

- name: Distribute public ssh-key to ansible inventory
  hosts: all
  become: false

  tasks:
    - name: Set home_dir from $HOME
      ansible.builtin.set_fact:
        home_dir: "{{ lookup('env','HOME') }}"

    - name: Using id_ed25519.pub ssh-key file
      ansible.builtin.set_fact:
        pub_key: "{{ home_dir }}/.ssh/id_ed25519.pub"

    - name: Set authorized key taken from file
      ansible.posix.authorized_key:
        user: "{{ lookup('env','USER') }}"
        state: present
        key: "{{ lookup('file',pub_key)  }}"
        exclusive: true
```