



Introduction to

A N S I B L E

TOPICS

1. What is Ansible
2. What Ansible can do
3. Features of Ansible
4. Ansible Architecture
5. Ansible Flow
6. Installation

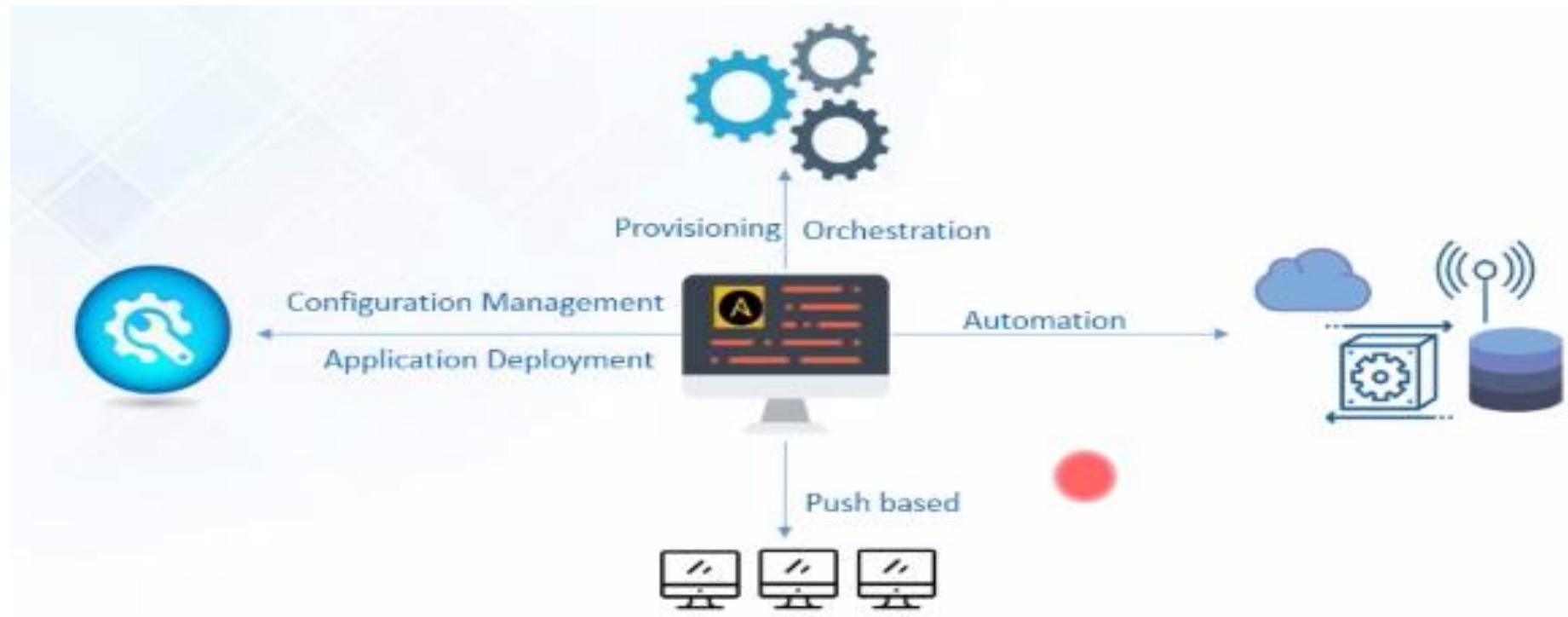
It's a **simple automation language** that can perfectly describe an IT application infrastructure in Ansible Playbooks.

It's an **automation engine** that runs Ansible Playbooks.

Ansible Tower by Red Hat is an **enterprise framework** for controlling, securing and managing your Ansible automation with a **UI and restful API**.



What is Ansible



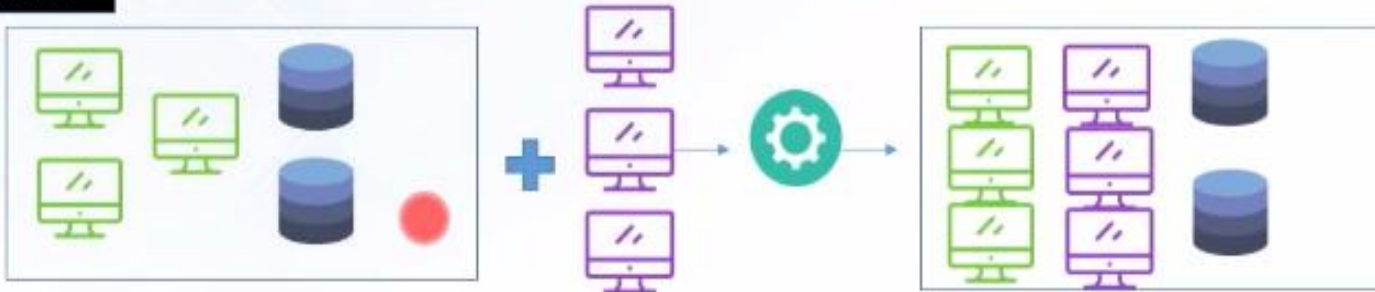
Provisioning & Orchestration

Before



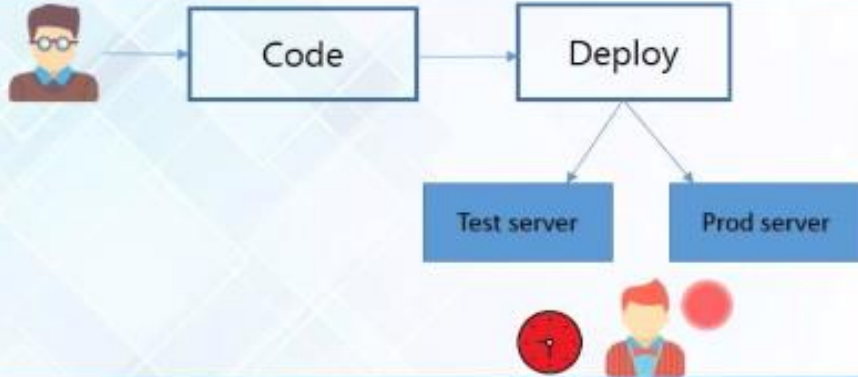
Scaling up of manual systems was a very tedious task.

After



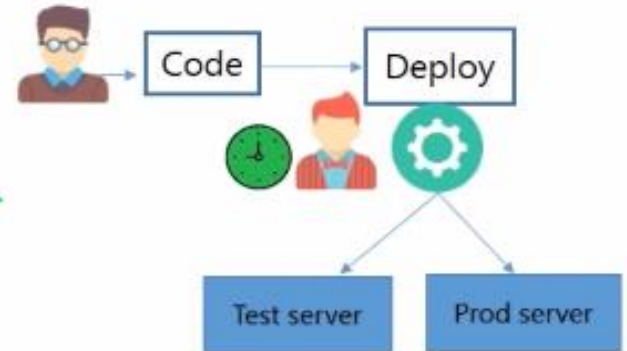
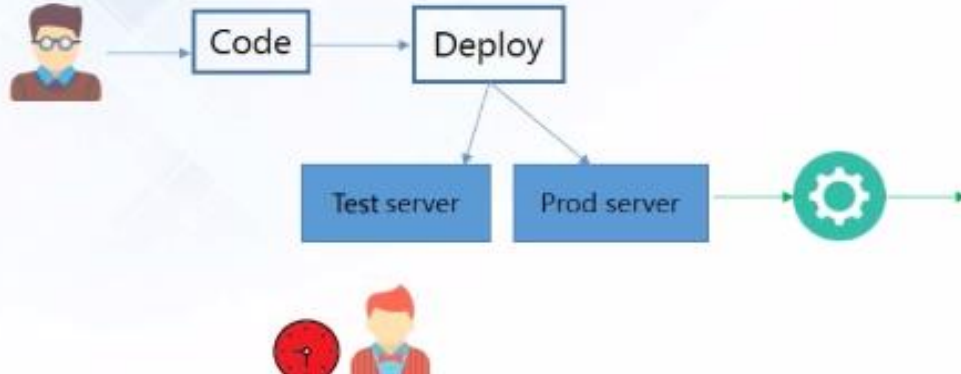
Application Deployment

Before



The work velocity of developers were affected since sysadmins were taking time to configure servers.

After



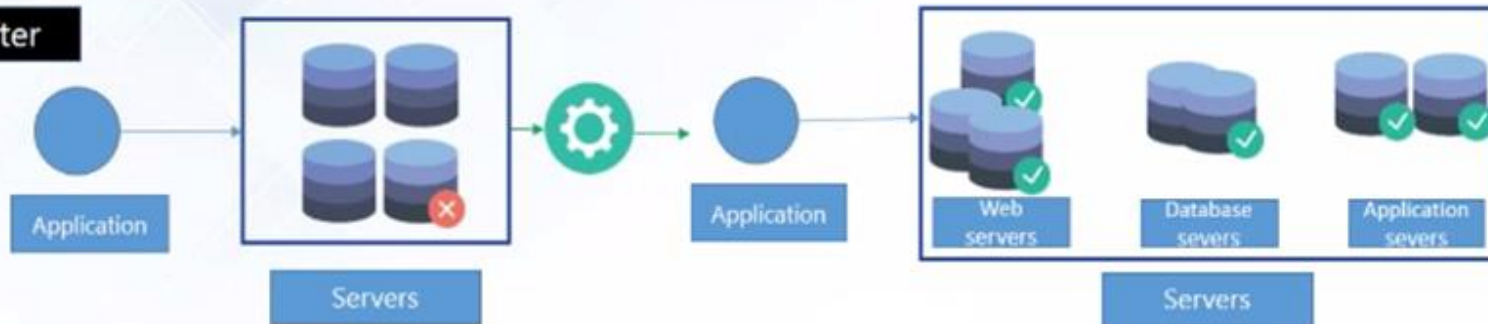
Configuration Management

Before



Problems in managing multiple servers together.

After



PUSH vs PULL



Pull Configuration



Push Configuration



ANSIBLE

Push Configuration

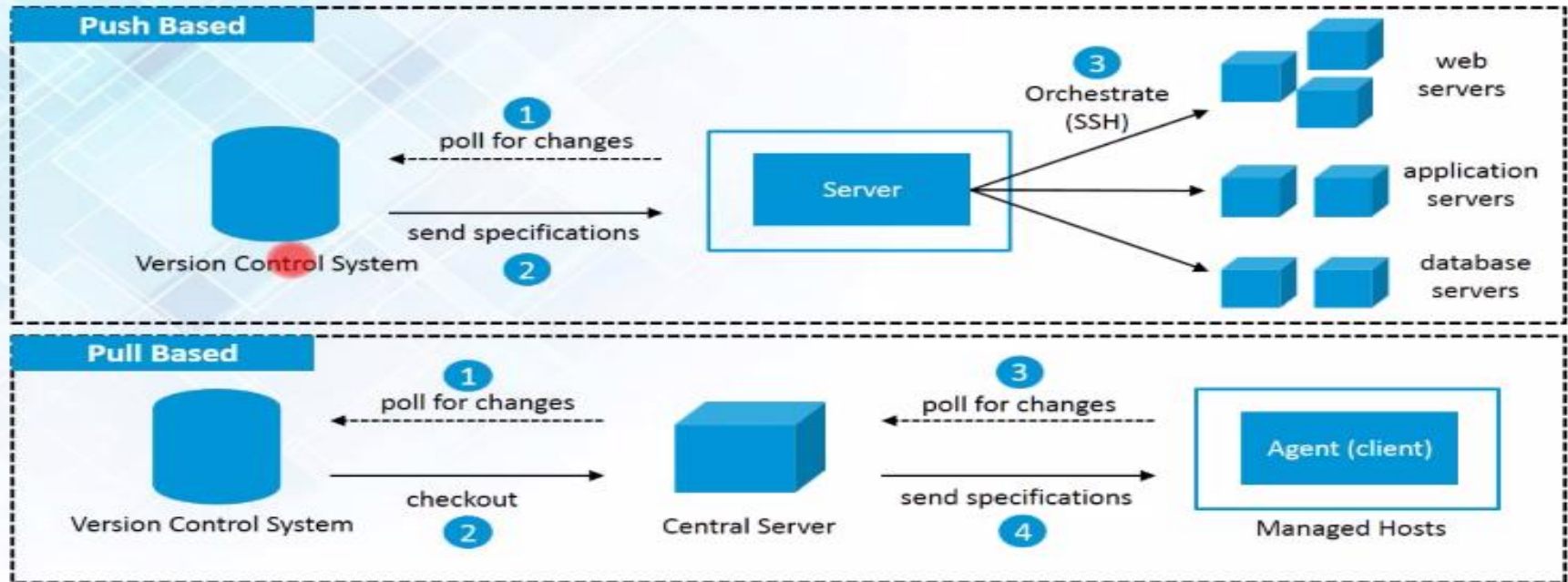


CHEF™

Pull Configuration

Push vs Pull Configuration

Push Based vs Pull Based





SIMPLE

- Human readable automation
- No special coding skills needed
- Tasks executed in order
- Usable by every team
- Get productive quickly**



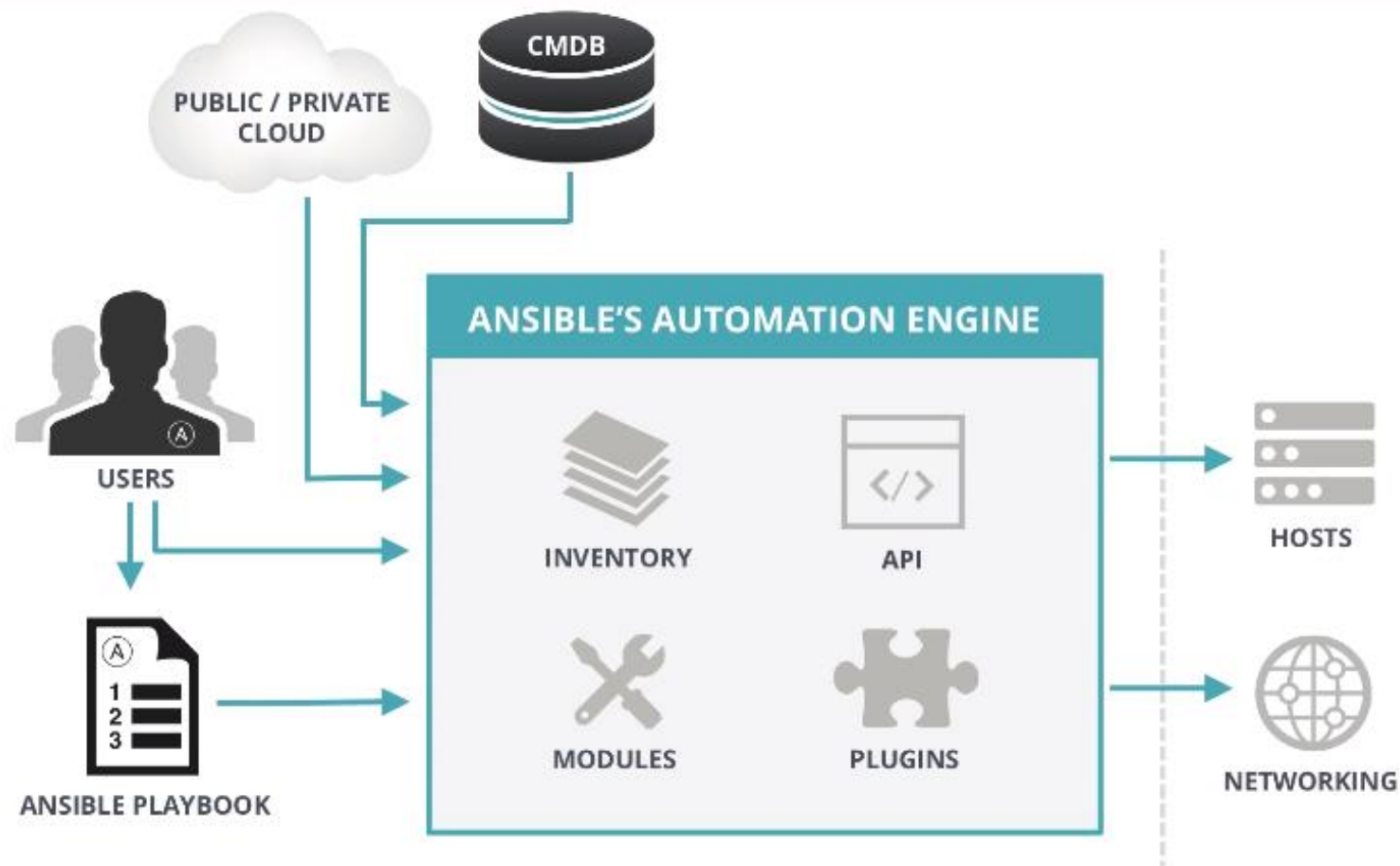
POWERFUL

- App deployment
- Configuration management
- Workflow orchestration
- Network automation
- Orchestrate the app lifecycle**



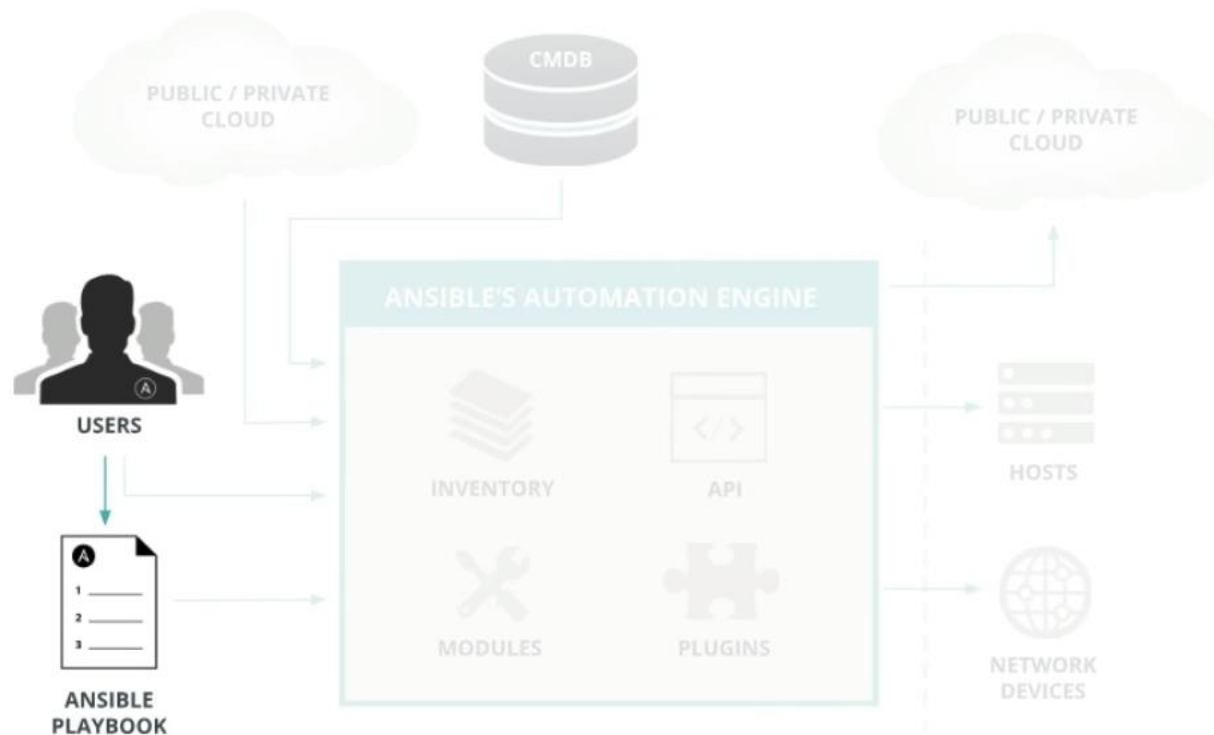
AGENTLESS

- Agentless architecture
- Uses OpenSSH & WinRM
- No agents to exploit or update
- Get started immediately
- More efficient & more secure**



HOW ANSIBLE WORKS

ANSIBLE

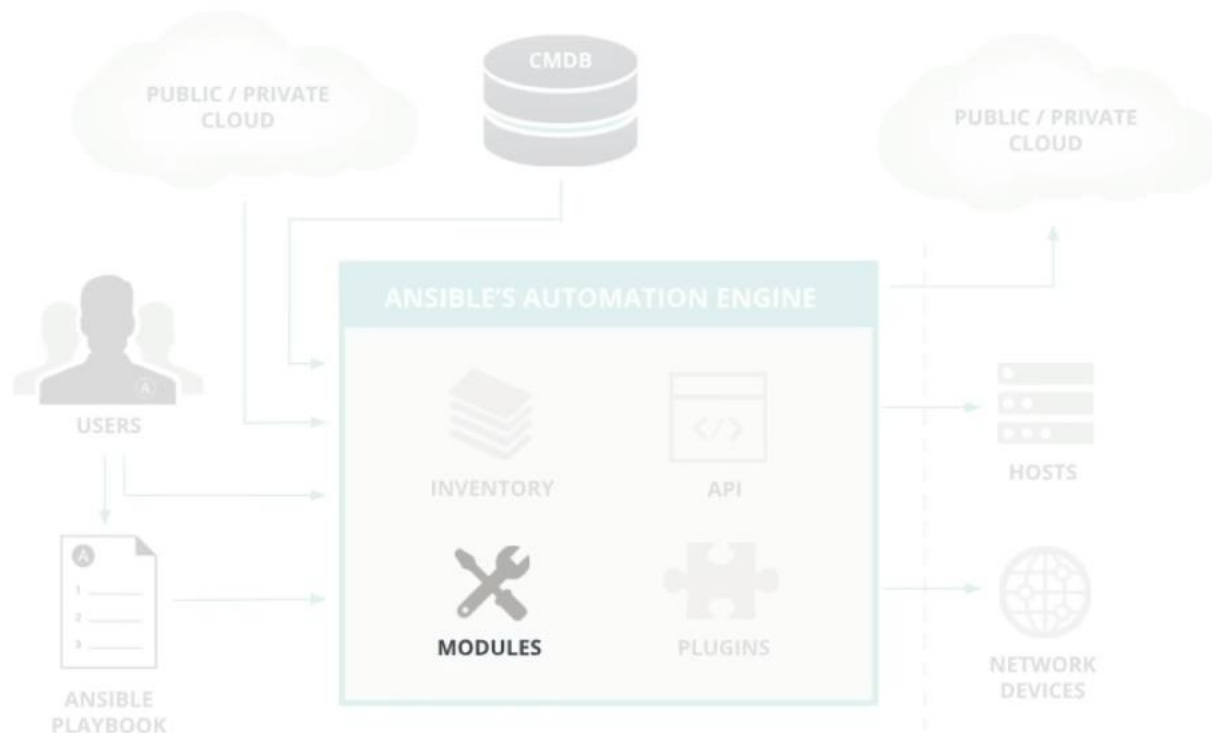


PLAYBOOKS

- Written in YAML
- Tasks are executed sequentially
- Invokes Ansible modules

HOW ANSIBLE WORKS

ANSIBLE

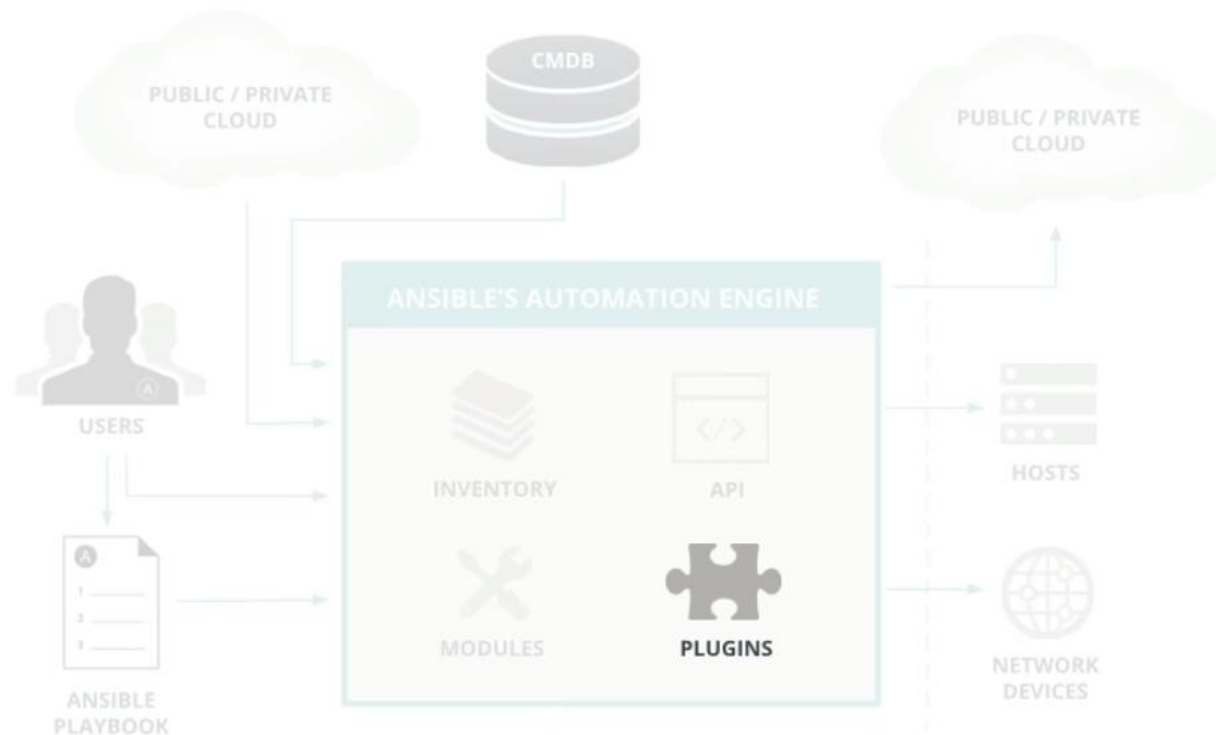


MODULES

- Tools in the toolkit
- Python, Powershell or any language
- Extend Ansible simplicity to entire stack

HOW ANSIBLE WORKS

ANSIBLE

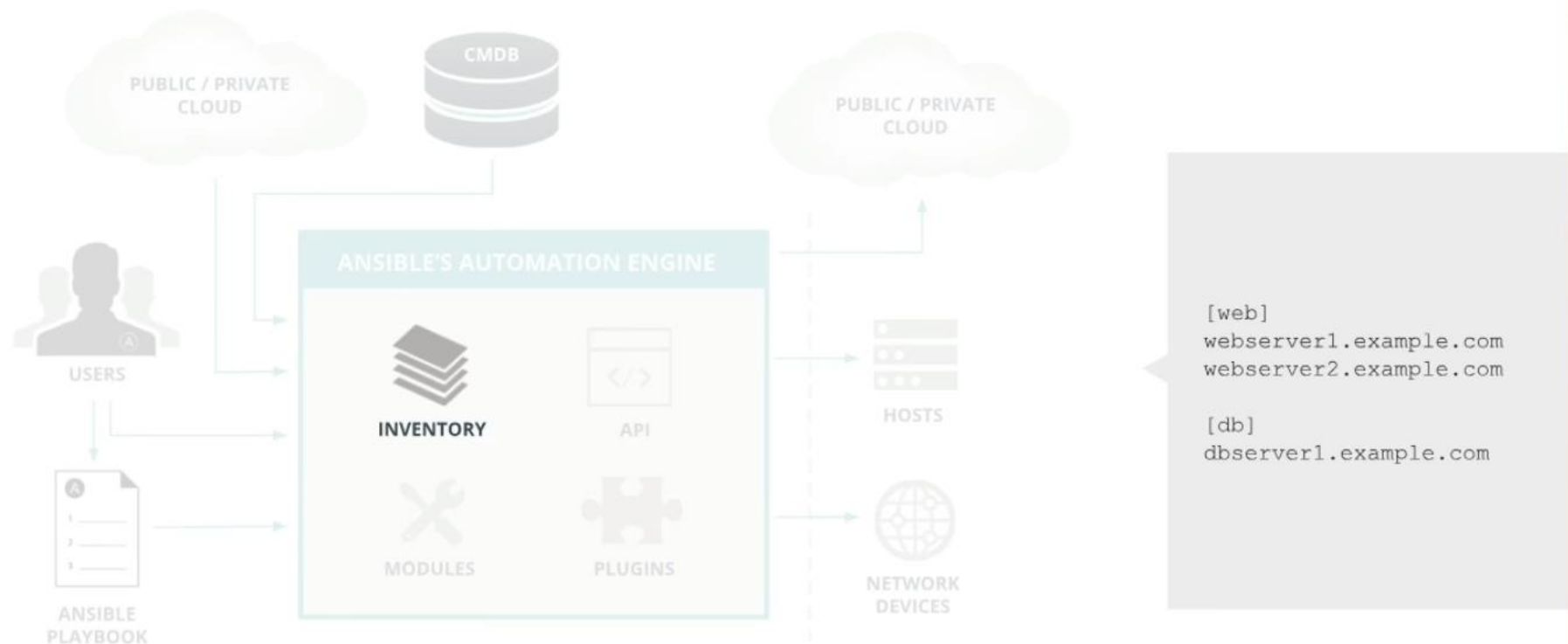


PLUGINS

- Gears in the engine
- Python that plugs into the core engine
- Adaptability for various uses & platforms

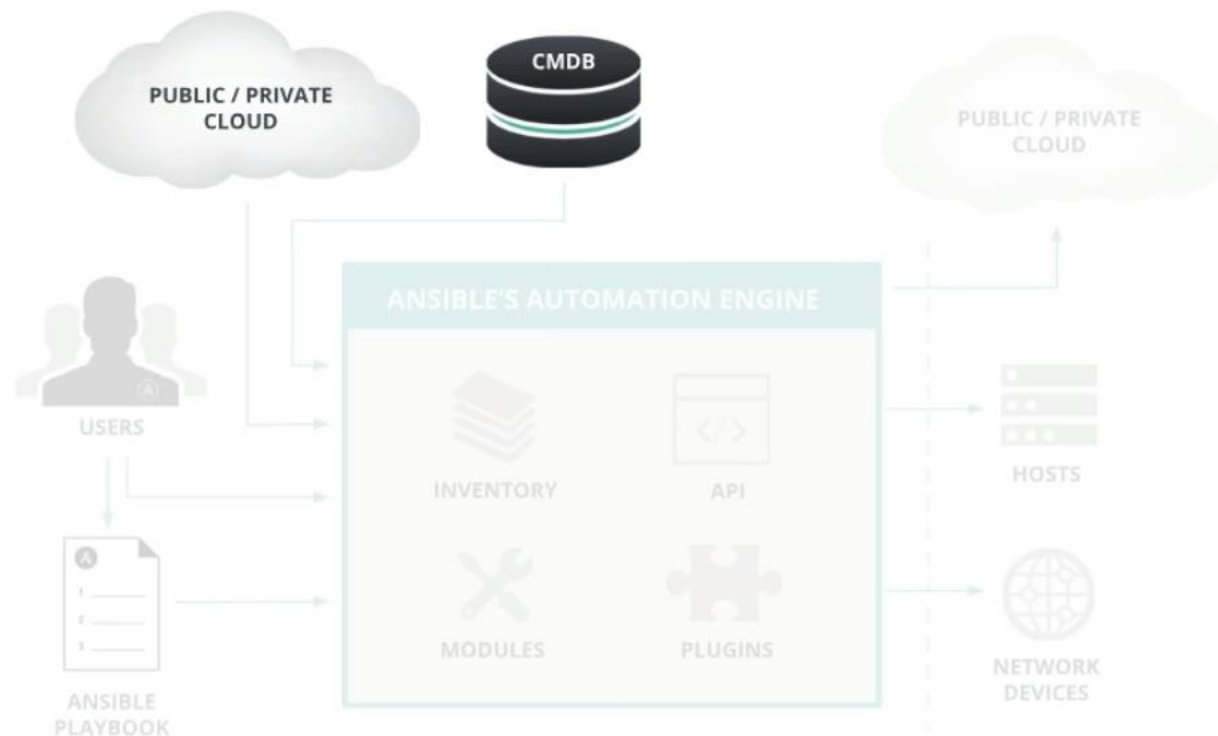
HOW ANSIBLE WORKS

ANSIBLE



HOW ANSIBLE WORKS

ANSIBLE

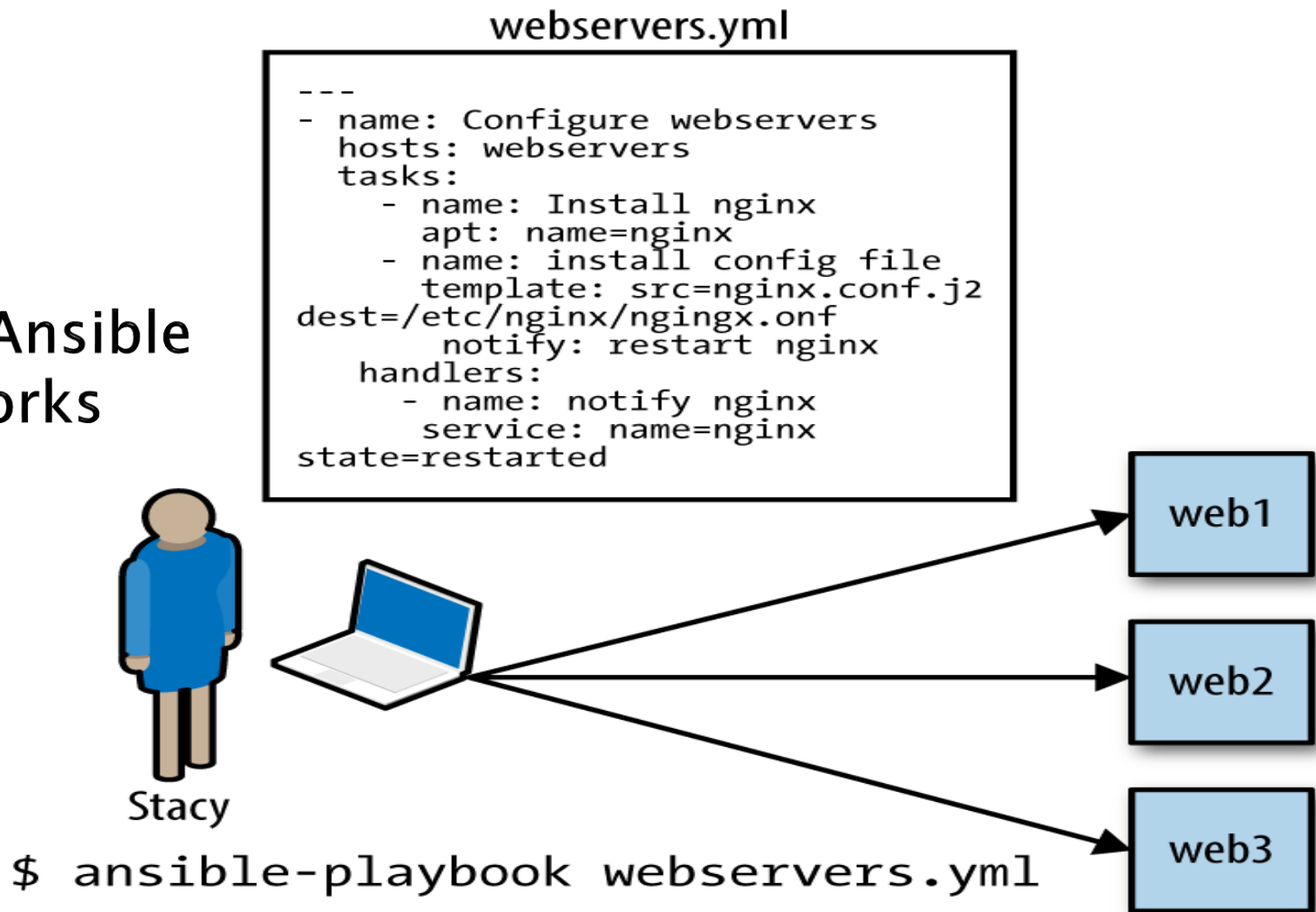


CLOUD

OpenStack, VMware, RHEV, Cloud Platforms (Like GCP)!

CUSTOM CMDB

How Ansible Works



WHERE TO GET IT AND HOW TO INSTALL

OS Packages (recommended)

- EPEL
- APT

Also available from

- Pypi
- Sources (via GitHub)

Q & A