**ANSIBLE**

**ANSIBLE is a configuration management tool**

**What is Configuration management?**

[Configuration management](https://www.netapp.com/devops-solutions/configuration-management) (CM) is an automated method for maintaining computer systems and software in a known, desired, consistent state.

**Automation History**

1. Bash Scripting / Batch Scripting
2. Python / Ruby
3. PowerShell
4. Puppet
5. Salt Stack
6. Chef
7. Ansible

**What is Ansible**

Ansible is an open-source automation tool, or platform, used for IT tasks such as [configuration management](https://www.simplilearn.com/configuration-management-2-article), application deployment, intraservice orchestration, and provisioning.

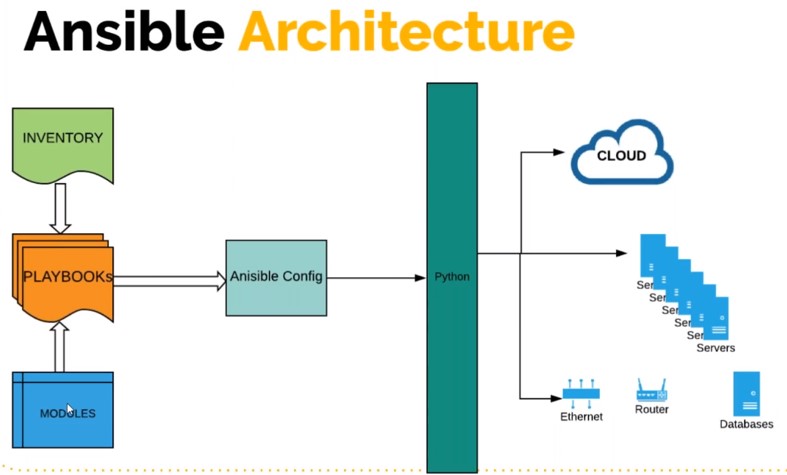
**Benefits of Ansible**

* **Simple:** Ansible is very simple tool.
* **Free:** Ansible is an open-source tool.
* **Very simple to set up and use:** No special [coding](https://www.simplilearn.com/tutorials/programming-tutorial/coding-for-beginners) skills are necessary to use Ansible’s playbooks
* **Powerful:** Ansible lets you model even highly complex IT workflows.
* **Flexible:**You can orchestrate the entire application environment no matter where it’s deployed. You can also customize it based on your needs.
* **Agentless:** You don’t need to install any other software or firewall ports on the client systems you want to automate. You also don’t have to set up a separate management structure.
* **YAML:** No Programming structured, its easy to read and write.

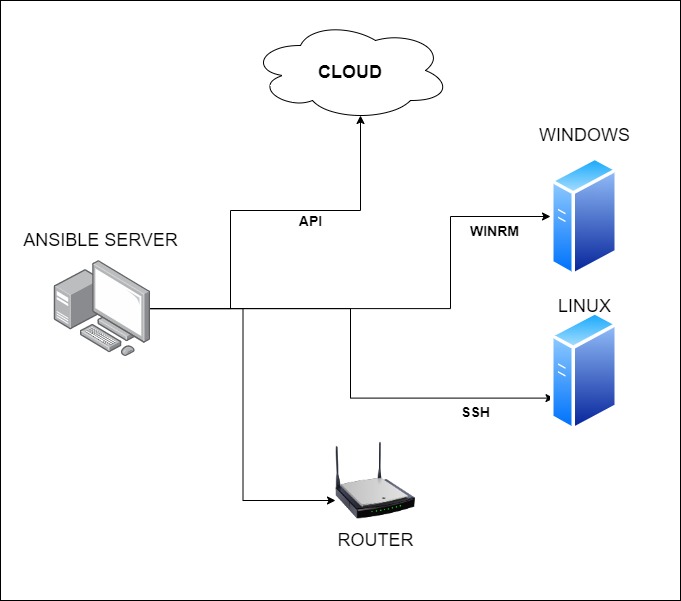
**Use cases of Ansible**

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**Ansible Architecture**

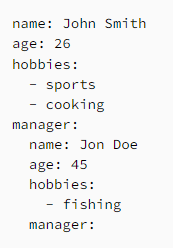
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**Ansible Connections:**

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**JSON and YAML**

**JSON YAML**



[**https://docs.ansible.com/ansible/latest/reference\_appendices/YAMLSyntax.html**](https://docs.ansible.com/ansible/latest/reference_appendices/YAMLSyntax.html)

**ANSIBLE SETUP on AWS Cloud**

[**https://docs.ansible.com/ansible/latest/installation\_guide/installation\_distros.html**](https://docs.ansible.com/ansible/latest/installation_guide/installation_distros.html)