**Chef is Pull based configuration management tool**

Chef is a **configuration management tool** used to automate infrastructure.

* **Chef** is a **configuration management tool** used in **DevOps** to **automate infrastructure**. Think of it like a **"robot chef"** in a restaurant kitchen that cooks (configures) everything exactly the same way every time.
* **Method to Automate the task.**
* **Use by Facebook,Aws,Hp.**

**Configuration Management (CM)** means:

* Setting up computers (servers) the way you want — automatically. (So instead of doing things **manually** on every computer (like installing software, setting settings, or creating files), you write a script once, and it takes care of everything — **the same way** on all systems.)
* **Configuration Management :** how your systems are set up."

**Configuration Management Tools: turns your code to infrastructure**

* Tools that help you automatically set up and manage computers or servers.
* They turn manual IT tasks (like installing software) into scripts that run on many machines.
* They help DevOps teams save time and avoid mistakes by automating setup tasks.
* Think of them as remote controls for managing thousands of computers at once.
* They let you treat your infrastructure like code — you write it, test it, and run it.

**Adavantages of configuration management tool:**

* **Complete automation**
* **Increase uptime.**
* **Decrease Downtime(server down).**
* **Improve performance.**
* **Ensure compliance.**
* **Prevent Errors.**
* **Reduce Cost.**