Chef is the automation platform for DevOps. Achieve speed, scale and consistency with Chef.

Today, every business is a software business. Give your teams the power to provision, manage and adapt your IT infrastructure to meet your business needs with round-the-clock availability and stability.

- **Turn your infrastructure into code.** With Chef, you describe your infrastructure as code, which means it's versionable, human-readable, and testable.
- **Accelerate cloud adoption.** Are you moving applications to the cloud? Chef makes your adoption path not just smooth, but fast. Migrate workloads quickly, consistently and at a pace that suits your business needs.
- **Manage both data center and cloud environments.** Chef gives you a single automation platform for managing all your environments, no matter how many vendors you use. Manage Windows, Linux, AIX and Solaris. With Chef, you can provision, deploy and maintain both your cloud environments and your data centers.
- **Manage multiple cloud environments.** Chef is cloud agnostic, which means you're free to pick the providers that give you what you want, when you want it. Avoid vendor lock-in and take control of all your cloud environments. If you use both a public and private cloud, use Chef to manage them both.
- **Test before deploy.** Chef comes with the Chef development kit (Chef DK), which provides all the tools you need to test your infrastructure code and make sure it works before you deploy it to production.
- **Transform your business.** Automation and DevOps go hand in hand. Together, DevOps and Chef can transform a traditional enterprise into one that quickly takes innovative ideas from the whiteboard to production, while still managing risk and maintaining stability.

Chef manages systems with reusable building blocks called cookbooks. These cookbooks contain the code that describes your infrastructure.

For example, here's how you can use Chef to install the Apache webserver and run it as a service on a Red Hat Enterprise Linux (RHEL) or CentOS server.

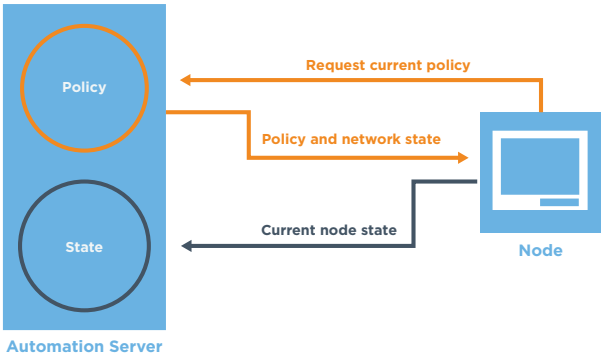
```
package 'httpd'

service 'httpd' do
  action [:enable, :start]
end
```

This installs the Apache package, called httpd, enables the service and starts it when the server boots.

Chef uses a client/server architecture to distribute policy and state and manage the network holistically.

Here's how it works:



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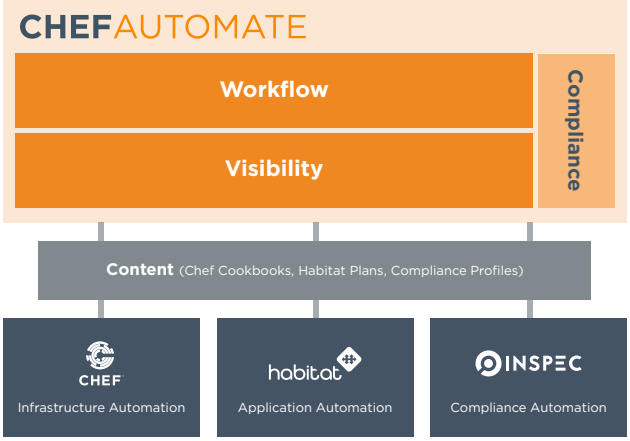
The Chef server stores your cookbooks as well as information about the systems you manage. A Chef client is installed on every node. The client retrieves cookbooks from the Chef server and updates the node if it's out of date.

With Chef, the intelligence about the desired state of the network is distributed across the network itself. Each node of the network periodically executes the current instructions from the Chef server. This iterative process ensures that the network as a whole converges to the state envisioned by business policy.

Chef also provides a development kit (Chef DK) that gives you the tools you need for testing your code to verify that it works before you deploy it to production. The Chef DK contains a set of tools for local development and testing, the Chef client, Chef Solo for standalone execution of the Chef client in situations where a Chef server isn't available, and the InSpec language for expressing compliance requirements as code.

Chef works hand in hand with the enterprise capabilities of Chef Automate, which builds on Chef for infrastructure automation, InSpec for compliance automation and Habitat for application automation.



Chef Automate provides a pipeline for continuous delivery of infrastructure and applications. It gives you insight into what's happening with your infrastructure with views into operational and workflow events. Chef Automate also provides automated testing for compliance and security. It comes with compliance profiles for standards such as CIS. It generates customizable reports to identify compliance issues, security risks, and outdated software.

Chef Automate includes a high-availability Chef server with fault tolerance, immediately consistent search results, and accurate real-time data about your infrastructure. Chef Automate also provides a graphical management console for the Chef server.

Chef Automate comes with comprehensive 24×7 support services for the entire platform, including Chef.

"There are three dimensions of scale we generally look at for infrastructure — the number of servers, the volume of different configurations across those systems, and the number of people required to maintain those configurations. Chef provided an automation solution flexible enough to bend to our scale dynamics without requiring us to change our workflow."

—Phil Dibowitz, Production Engineer, Facebook

Want to learn more? Contact us or go to www.chef.io

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