puppet

**PRODUCTS** 

**COMMUNITY** 

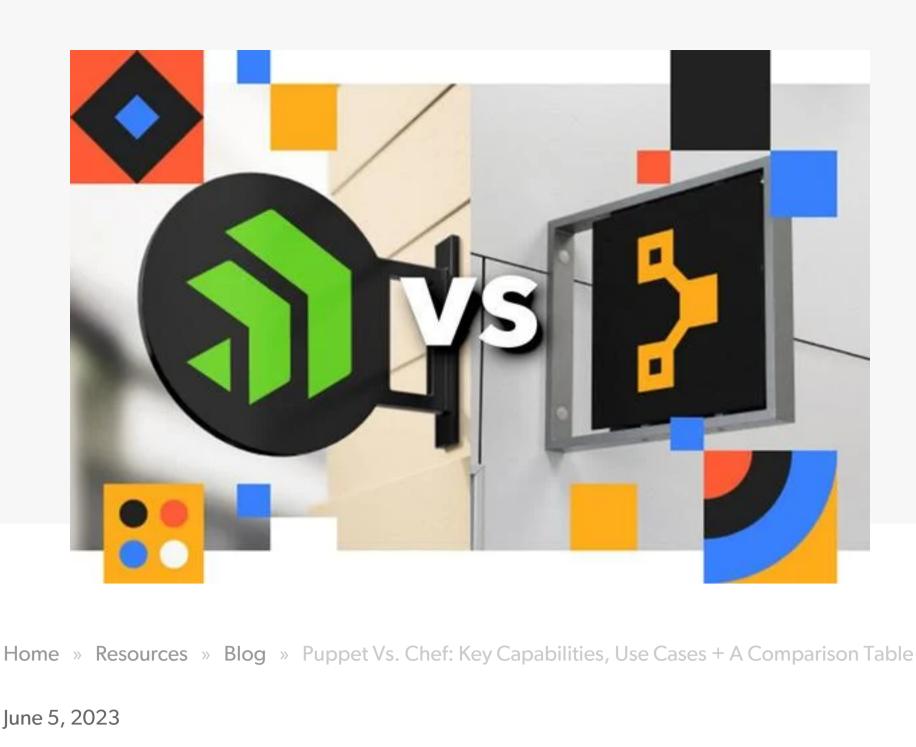
Blog

Security

**Downloads** 

Support

Contact



## Capabilities, Use Cases + A **Comparison Table**

**ECOSYSTEMS & INTEGRATIONS** 

By Stephen P. Potter Choosing an automation and configuration management solution like Puppet vs. Chef often

Puppet vs. Chef: Key

outside, it's hard to tell which tool does what, let alone which will perform best in your infrastructure. If you're researching Puppet vs. Chef, this blog will explain some of the commonalities

between Puppet and Chef, what makes Puppet unique, and what to consider when researching Puppet vs. Chef for your infrastructure automation and configuration management needs. **See for Yourself What Makes** 

feels like comparing apples to oranges (or apples to... differently shaped apples). From the

**Puppet Better Than Chef** You could keep reading for a head-to-head comparison... or you can see Puppet in action right away. **GET A DEMO OF PUPPET** 

**Table of Contents** • What are Chef and Puppet?

- aim to configure and manage servers and other IT infrastructure.
- What's the Difference Between Puppet vs.

### The main differences between Puppet and Chef include use cases, scalability, reporting, community support, and out-of-the-box features.

**Puppet DSL's Automatic Relationship Management** Puppet's Domain-Specific Language (DSL) is a declarative language that describes the

dependencies you want to see, and Puppet will do everything it needs to get it to that

desired state of your system. That means you tell Puppet the configuration and

### desired state. Puppet is unique in its ability to do automatic relationship management and implicit resource ordering. **Built-In Reporting + Visibility**

The difference between Puppet and Chef is where the logic takes place. With Puppet, catalogs are compiled on the primary server (also known as a compiler server in a largescale environment) and the unambiguous catalog (no logic or conditions) is sent to the agent for execution. With Puppet, the workload is on the server.

**Get a Live Demo** 

**GET A DEMO OF** 

**PUPPET** 

With Puppet, Conditional Logic is Determined on the Server

Common? Puppet and Chef may be different tools, but they both operate in the same infrastructure management space. That means they have a lot in common, since their offerings have been shaped by the same trends and feedback over the years. Here are some of the similarities Puppet and Chef both share.

Puppet and Chef can both help you automate aspects of your infrastructure management,

system, etc.) and enforcing compliance. They allow you to define system configurations,

**Chef and Puppet Both Support Cross-Platform Configurations** 

Puppet and Chef can manage configurations across multiple operating systems, including

like machine provisioning (standing up a virtual machine, laying down the operating

package installs, file management, and more to automate management of your

### Windows, macOS, Linux, and Unix. Platform-independent abstractions in each make it possible to write configurations that work across different platforms, OSes, and environments.

**Puppet and Chef Can Both Be Used for Configuration** 

In this agent-based architecture, Puppet agents pull updates from the Puppet server and apply them to the nodes. Chef uses a similar "pull" architecture. **Puppet and Chef Both Have Community and Ecosystem Support** Puppet and Chef both have communities of active users. These communities gather, share

knowledge, and contribute content that improves the tool and extends its functionality into

Puppet agents are installed on target nodes and communicate with a central Puppet server.

than Puppet? Puppet and Chef feature many similar capabilities and use cases. Puppet is known to be better for managing large-scale deployments across data centers and the cloud. Chef is widely used to manage

Is Puppet Better than Chef? Is Chef Better

To help you make a more informed choice between Puppet and Chef, take a look at the technical comparison table below. **Puppet vs. Chef Comparison Table** Progress®
Chef®

Puppet Enterprise provides a Chef Automate provides a GUI GUI with visibility to events & with visibility to events & config **Interface** config details details

allows you to automate 10 Chef Automate offers a 60-day **Free Trial** nodes for free as long as you limited trial want Chef can scale because load is Designed to scale for **Scalability** forced onto the client - but internal enterprise automation adoption by teams is often slow Robust visibility and reporting **Visibility &** built into Puppet Enterprise Accessible only with extensions Reporting (Impact Analysis available in CD4PE) Ruby-based DSL, Full Ruby, YAML, Management Puppet DSL and some YAML InSpec Cloud AWS, Azure, GCP + more AWS, Azure, GCP + more **Availability Communication** SSL SSL, SSH, WinRM **What Puppet Does Better Than Chef** Your choice of an automation and configuration management tool will depend on your specific needs. That said, there are some differentiating factors that make Puppet the tool of choice for engineers, sysadmins, and business leaders. Here are a few ways Puppet outpaces Chef. **Puppet is a More Complete Compliance Management Tool Than** Chef

### reasons: More releases mean more features and better reliability. But Puppet has also used that time to leave a huge footprint, including a library of DevOps reports and a gigantic Puppet community of passionate contributors helping to make every release a little better. **Puppet Has More Automation Use Cases Than Chef**

management, monitoring, source control, secrets management, and more.

servers. That means the agent nodes have a lighter workload to complete, so there's less

Implicit relationships (or automatic relationships) refers to Puppet's ability to reorder

resources in a catalog based on known requirements. This means you can put things in a

manifest out of order and in some/many cases, Puppet will reorder them to do the right

For more on implicit relationships in Puppet, see Docs on relationships and ordering

Nothing proves the long-term value of a tool like time. Longevity matters for a number of

Puppet's use cases in automation make it the most versatile IT and infrastructure automation

solution available. Puppet's automation use cases include system configuration, patch

Chef, on the other hand, lacks key capabilities like patch management. In The Forrester

Wave™: Infrastructure Automation, Q1 2023, Forrester described the limited use cases of

"Progress does not offer a native patch management solution; its

capabilities for the rest of automation use cases are relatively weak. ...

Progress's vision and roadmap plans are lackluster. It intends to

expand use cases, build functionality for DevOps pros, and enable

vertical capabilities — but this falls short of its competitors."

chance of a Puppet run affecting the processing on a heavily utilized node.

**Puppet Can Reorder Resources Automatically** 

**Puppet Has Been Around Longer Than Chef** 

thing.

**Progress Chef:** 

and automatic relationships >>

The Forrester Wave™: Infrastructure Automation, Q1 2023 **Puppet is Built to Grow with Your Business** 

configuration management capabilities go beyond provisioning, testing, and deployment -

it includes reporting, remediation, enforcement, and more. With those tools under your

Chef, on the other hand, is known to be an impediment to scaling. Forrester reported that

for Chef customers, "it took a long time to scale internal adoption and feel comfortable with

advanced configuration and maintenance. They also reported that the documentation isn't

See Puppet in Action or Try It for Yourself

If you're evaluating infrastructure automation and configuration management tools like

Puppet and Chef, you should absolutely do as much hands-on research as possible. That's

why we offer a free demo of Puppet products, as well as a trial of Puppet Enterprise you can

control, you can scale infrastructure as needed with fewer headaches and less risk.

straightforward, making it hard to get up to speed quickly."

run on up to 10 nodes as long as you want - for free.

**Stephen P. Potter** 

Principal Sales Engineer, Puppet by Perforce

Virtualization, and Cloud technologies.

Stephen is a Principal Sales Engineer at Puppet by Perforce. His years of experience in the Puppet

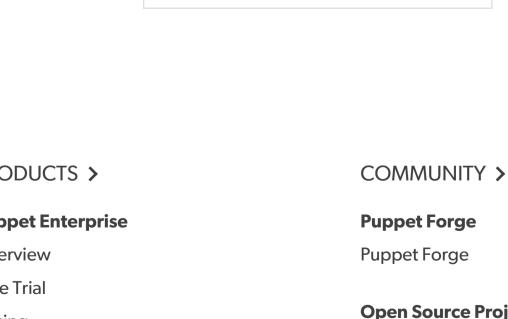
ecosystem and decades in IT operations include roles as sysadmin, engineer, and architect for Unix, Linux,

# puppetblog

**How to Learn** 

**Puppet the Easy** 

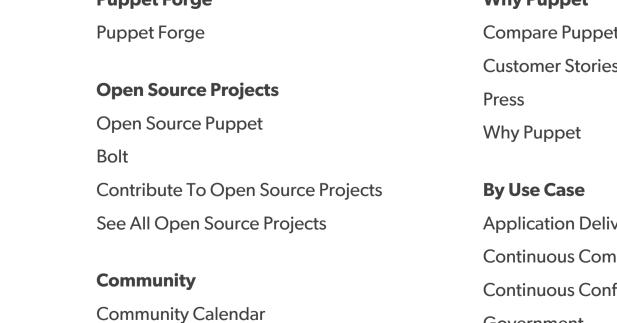
Way — From...



**DevOps in** 

**Government** 

**Environments** 

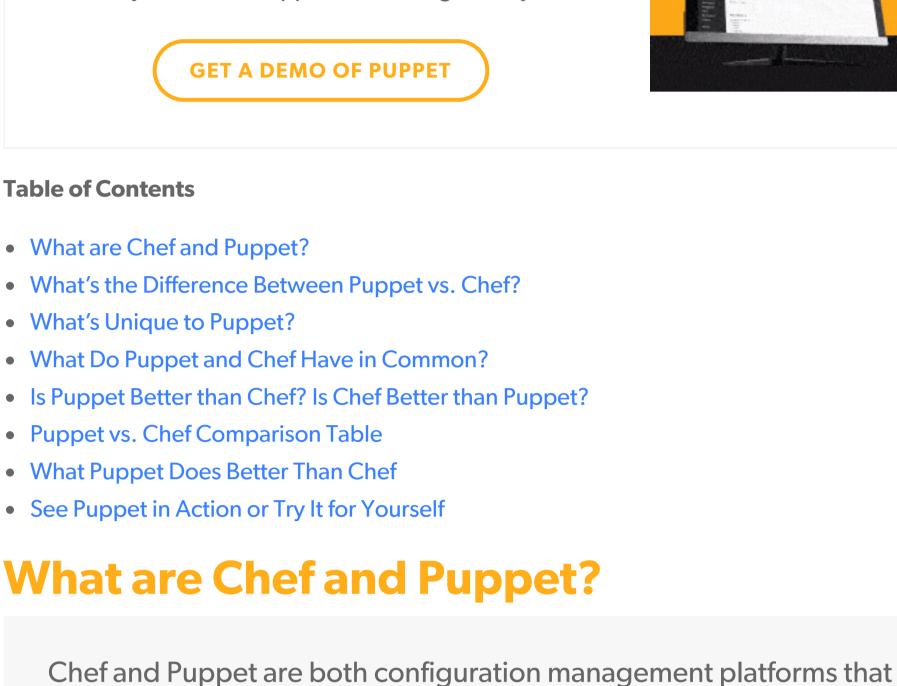


Support **Training & Education** Courses **Trusted Contributors Program** RESOURCES > Blog **Customer Stories Events & Webinars On-Demand Webinars** 

Continuous Compliance Government Patch Management

Papers & Videos **Podcast Product Demos** 

**Professional Services** 



## • Puppet vs. Chef Comparison Table • What Puppet Does Better Than Chef • See Puppet in Action or Try It for Yourself

Chef?

# What's Unique to Puppet?

### Puppet provides a built-in reporting feature that captures information about the configuration changes and the state of managed nodes. It can generate reports and visualizations that help in tracking the infrastructure state over time. Chef, on the other hand, relies on external tools and integrations for reporting and visualization.

**Try Puppet Now** 

Management

infrastructure.

If you're ready to get your hands dirty. If you'd rather see Puppet in action. **PRODUCT DEMO FREE TRIAL** What Do Puppet and Chef Have in

### We'll Show You Why Puppet is the Right Choice for Automating + Configuring Your Infrastructure.

**Puppet and Chef Both Use "Pull" Architecture** 

on the Chef Supermarket, a hub like the Puppet Forge.

new and more convenient use cases.

tech stack and platform.

Language

**Architecture** 

Setup

• Puppet has modules, which are files written in Puppet DSL that describe system configurations which Puppet can enforce. Modules are hosted on the Puppet Forge, which is home to more than 6,000 modules – including ones created by the community and many officially supported by Puppet. • Chef has Cookbooks, which, like modules, are files that describe how a system should be configured and the actions Chef needs to take to get it there. Cookbooks are hosted

Of course, your choice of infrastructure automation and configuration management tools comes down to what your infrastructure needs today, what your team can manage, and what you want to do with your infrastructure in the future. For example, if your organization plans to add node capacity or diversify its IT infrastructure,

you'll need an automation tool built for scalability across physical servers and public or

private cloud services. You'll also need a tool that integrates smoothly with your current

smaller, less complex infrastructure.

MacOS, AIX, Solaris, FreeBSD Windows, MacOS, AIX, **Platforms** Solaris Open Source: Arista EOS, **Open Source:** FreeBSD Virtuozzo, XCP-ng PuppetDSL for desired state

Commercial: Linux, Windows,

**Ruby-based DSL** 

Server/client OR client-less

("pull")

Chef can be scaled through

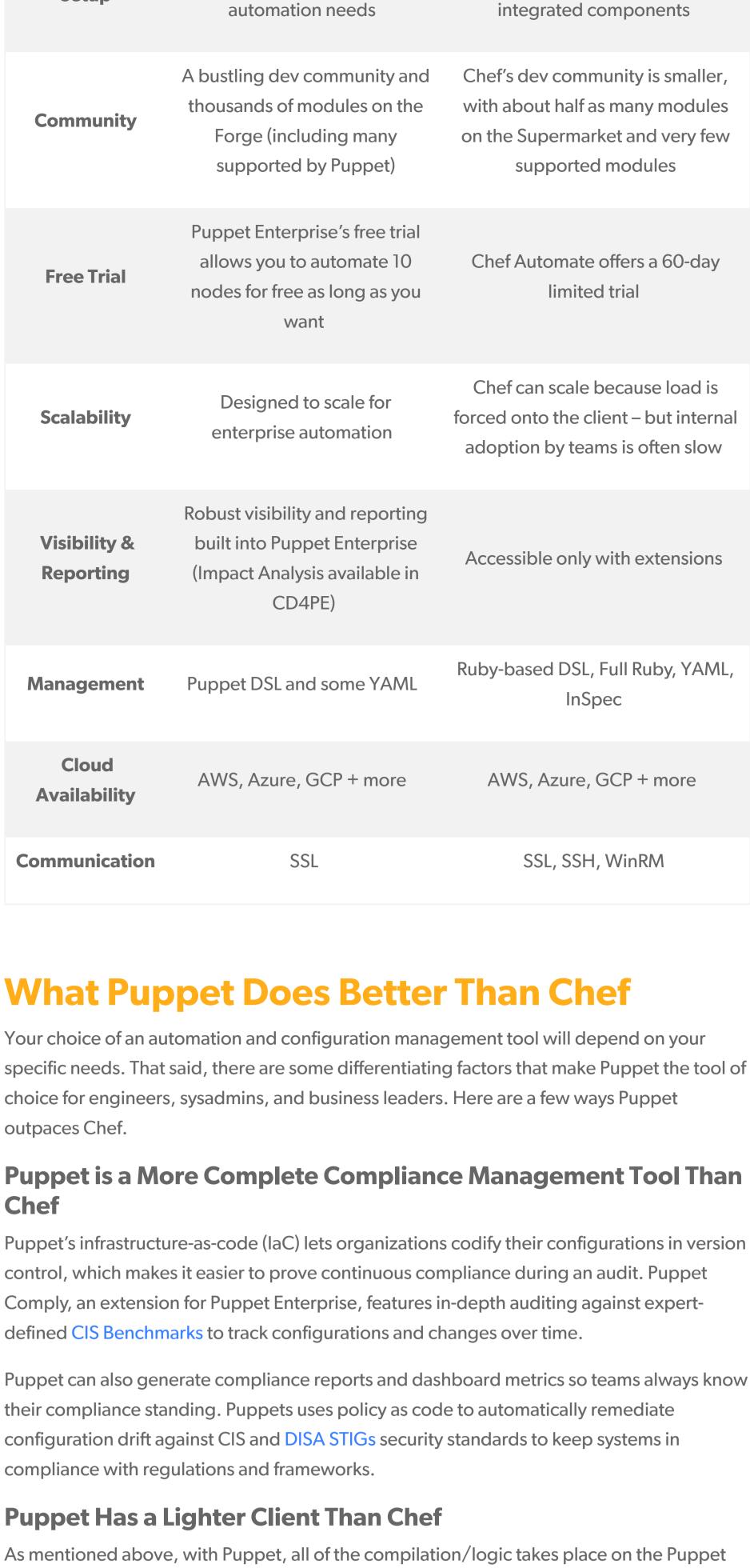
Commercial: Linux,

and task-based capabilities

Server/client OR client-less

("pull")

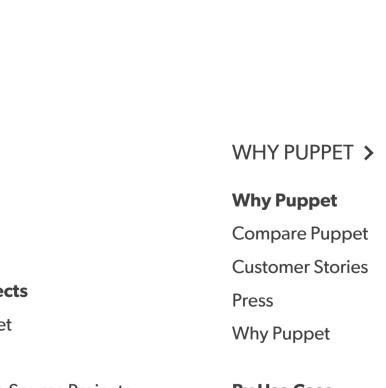
Built to scale with your

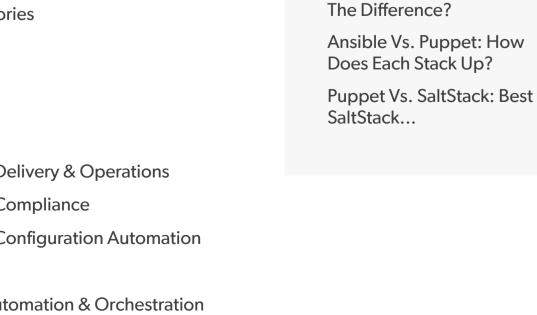


## Scaling DevOps is essential to helping your IT infrastructure meet the growing needs of your business - and it's one of Puppet's greatest strengths. Puppet's automation and

**GET A DEMO** TRY PUPPET FREE







Achieving zero trust security

with Puppet **Enterprise** 

**Automation** 

**Technology in** 

Government:...

**ALSO OF INTEREST** 

Puppet Vs. Ansible: What's

**Community Overview** 

FI X in You # a



PRODUCTS > **Puppet Enterprise** Overview Free Trial Pricing **Product Demo Puppet Enterprise Extensions Puppet Comply Compliance Enforcement Continuous Delivery For Puppet** Enterprise **Content & Modules Product Resources** 

Documentation

Knowledge Base

Integrations

**Get Started** 

Try It Now

Request A Demo

Support

Community Slack **Puppet Champions Puppet Test Pilots Ecosystem** GitHub Integrations Puppet Developer Experience

**Recommended Blogs** 

