

# Comparison - Configuration Management Tools

Review Dec 2016

For the BonsaiFramework I liked Chef the most.

Product	Inception	Control Mechanism	OS Agnostic	Enterprise Attributes	Key Relative Strength	Key Relative Weakness	Language	Bonsai Notes
Ansible		SSH with Python requiring <b>root</b> .						
Chef		Chef Agent	Yes	Provides SaaS to handle analytics and hybrid delivery models.	Focused on infrastructure as code and able to create systems from scratch.		Subset of Ruby	Has <a href="#">Chef Provisioning</a> to create machines using chef-client supporting LXC, Amazon EC2 and more.
Puppet		Puppet Agent using XMLRPC over HTTPS	Yes	Cluster approach with multiple masters for high availability and scalability.	Mature	Certificate management can be difficult with multiple masters.		<ul style="list-style-type: none"> <li>JSON-like language</li> <li>Ruby available as of version 2.6</li> </ul>
Salt		SSH or Client			Development focused to be scalable and distributed.	<ul style="list-style-type: none"> <li>Not Linux friendly</li> <li>Lack of Documentation</li> </ul>		
Spring Config Server		<ul style="list-style-type: none"> <li>Git supported repository technology</li> <li>Local File systems</li> </ul>	Yes	<ul style="list-style-type: none"> <li>Deployable as SaaS on any supported Cloud Foundry implementations                             <ul style="list-style-type: none"> <li>for example Pivotal Cloud Foundry</li> </ul> </li> <li>Deployable as a standalone app to IaaS</li> </ul>	<ul style="list-style-type: none"> <li>Designed to work with SaaS methodology</li> <li>Single application to serve environment specific configuration such as Development / Staging / Production</li> <li>Key / Value pair implementation</li> <li>supports different types of authentication to Git such as ssh Keys, encrypted credentials</li> <li>key / value pair encryption to hide sensitive production data</li> </ul>	<ul style="list-style-type: none"> <li>Requires Java to run</li> <li>Clients need to run Spring Config Client as a dependency</li> </ul>		

## Resources

Video Review - [https://www.youtube.com/results?search\\_query=ansible+vs+chef+vs+puppet+](https://www.youtube.com/results?search_query=ansible+vs+chef+vs+puppet+)

Spring Config Server - <https://cloud.spring.io/spring-cloud-config/>; <https://cloud.spring.io/spring-cloud-config/spring-cloud-config.html>