DEVOPS

Module – Tool Comparison
Comparing the various tool sets

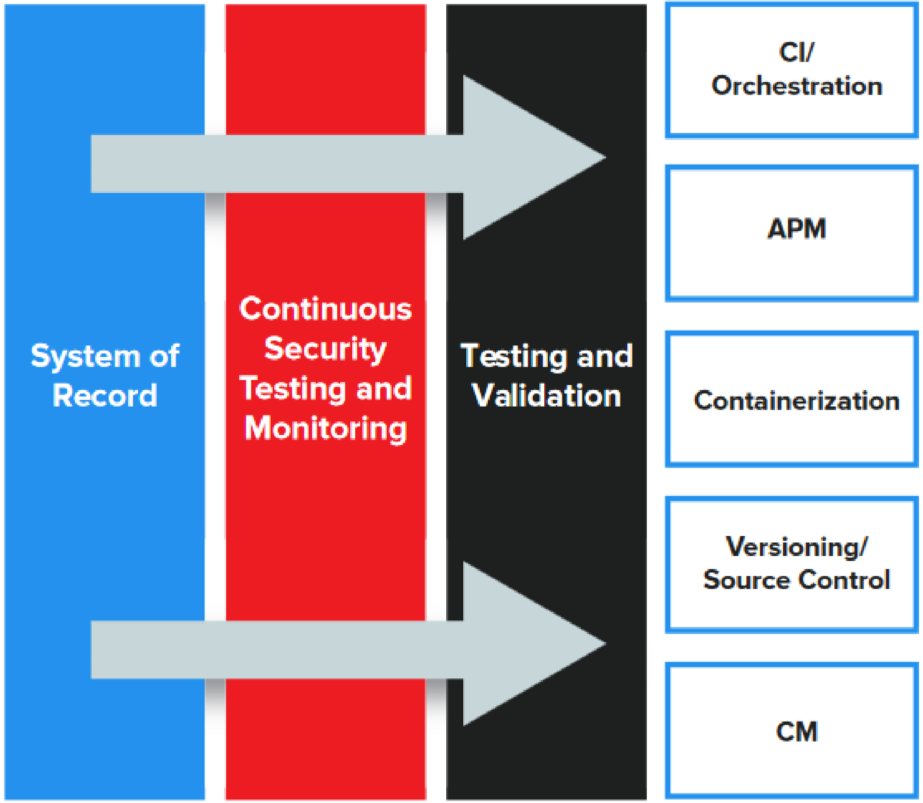
Disclaimer

→ALL TOOLS ARE CONFIGURATION MANAGEMENT (CM)

- » Puppet
- » Salt
- » Ansible
- » Chef

→All of these have +/-. JUDGE FOR YOURSELF !

The Devops Tool Set



Puppet vs Salt

or

Puppet vs Salt

→Puppet has been

- » around for the longest time,
- » it has the largest user base and market share.

→Developed in 2005 by Luke Kanies,

→Open-source product that also has a commercial version developed and supported by Puppetlabs.

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Puppet vs Salt

→Puppet

- » Ruby Based DSL
- » Weak web UI (mostly CLI based)
- » SSL Communication

→Salt

- » Python Based
- » Developed by Tom Hatch because

  he felt Puppet and Chef were too slow and ov
- » Open Source in 2011 with at least one big name:
- » Now Supports Enterprise Edition
- » Leverages ZeroMQ Message Bus for Concurrency
- » Persistent TCP Connections

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Puppet vs Salt

→Puppet has

- » Larger community base
- » Growing Minority of dissenters for various reasons (political, economical and technical)

→Salt

- » Growing community based

Nuff Said! Let’s get the details

Puppet vs Salt

→Puppet

- » V3.0 (Q2 2013) added speed performance
- » Allows finer-grained filtering to select subsets of systems to modify or directly control
- » Batching functions to permit a gradual rather than all-together rollout of changes.
- » Better support of Windows servers.
- » better gui support (Live Management)
- » Downsides
  - Ruby makes execution order undependable
  - New Puppet releases are still not as bug-free as its size and maturity would suggest

Puppet vs Salt

→Salt

- » Relatively New
- » Poor GUI support (HALITE)
- » Difficult to debug issues ☹
- » Highly scalable and resilient
  - Multiple levels of masters
    - Load distribution
    - increased Redudancy

Puppet vs Salt

or

Puppet vs Ansible

or

Puppet vs Ansible

→Ansible

- » Released 2012
- » Parent Company AnsibleWorks
- » Open Sourced
- » Python Based
- » Lightweight and quick Deployment
- » Agentless work – everything done via SSH
- » Ansible commands can be written in almost any programming language
- » Poor GUI
- » Does not run on Windows/Network Devices
- » Mostly useful for quick and temporary deployments

Puppet Vs Ansible

	Pros	**Cons**
Puppet	•Mature solution •Good GUI •Support for all major OS's •Easy install	•Slow-ish to respond and address customer concerns •Ruby-based, performance questionable compared to Python-based CM tools •Soon all customers must learn the Puppet DSL
Ansible	•Excellent performance, agent-less install and deploy •Low overhead, playbook based •Based on ubiquitous Python language •CLI accepts commands in almost any language	•Still very new; not yet tried and tested by many •No support for Windows •GUI a work in progress

Puppet vs Ansible

or

Puppet vs Chef

or

Puppet vs Chef

→At the basic level, Chef is a tool for automation, provisioning and configuration management. The platform is made up of the following components:

- » **Chef Server** - the main hub where Chef propagates and stores system configuration information and policies (i.e., recipes and cookbooks). The Chef management console is the web user interface for Chef Server.
- » **Chef Client** - installed on every node being managed, the Chef Client performs configuration tasks on the local machine.
- » **Workstation** - allows designated workstations to author/test/maintain cookbooks and upload them to Chef Server. Workstations are also used when utilizing the Chef development kit package.
- » **Chef Analytics** - a platform that provides actions and run history, real-time reporting, and notifications around Chef automation activities.
- » **Chef Supermarket** - an open source directory of community-contributed cookbooks

Puppet vs Chef

→Chef is considered more developer friendly

- » ChefDK
- » Knife plugin
- » Chef Delivery

  yet more developer-friendly features like

  comprehensive codebase change histories,

  metrics, and

  permissions management to the platform

Puppet vs Chef

→Chef Delivery’s automated testing and continuous integration/delivery tools augment the platform with new features such as

  - » a shared workflow pipeline,
  - » collaboration capabilities, and
  - » enhanced analytics—as well as
  - » new ecosystem integrations with AWS, Azure, and Docker, to name a few

→Better Pipeline Management ??

→Improved Security with Chef Vault

  - » Done via Data bags and can be very tedious and error prone

Puppet vs Chef

→Puppet is considered a more operations and sysadmin-oriented solution when compared to Chef,

» These role-based distinctions are becoming less relevant with each release.

→Currently on version 4.3, Puppet is commonly deployed in a client/server configuration with managed nodes periodically synchronizing their configurations with the server.

→Reporting (e.g., results from automation runs, errors/exceptions) and other information is sent by the clients back to the server for aggregate analysis and processing.

→and more technical differences !!!

TOTALLY DIFFERENT ARCHITECTURE, FLOW, PROCESSES !

Puppet vs Chef

or

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