

SHATTERING BOTTLENECKS THE QUINTESSENTIAL DEVOPS TOOLS

Bottlenecks and businesses don't mix all that well. They suck up profits, slow down growth and hinder the cultural transformation within an organization which is crucial for truly taking advantage of the DevOps Movement.



IDENTIFYING BOTTLENECKS



SILOS

Organizational silos result in misaligned priorities, lack of information flow, and lack of coordinated decision making across departments.



When the blame game ensues, fingers are pointed, the buck is passed around and no clear solution is developed and progress is debilitated.

LACK OF ACCOUNTABILITY





Legacy processes created back

CONFUSING PROCESS

when deploying and updating solutions and infrastructure changes were few and far in between now have a knack for getting in the way of deploying faster & more frequent updates. Once the major bottleneck(s) have been identified,

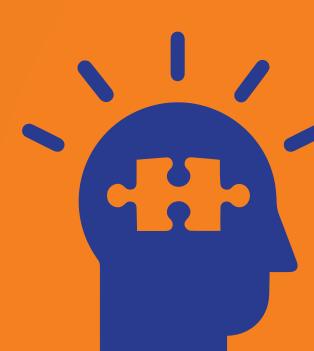
it brings us to our next challenge.



provisioning databases for non-production environments can take several days.

The biggest roadblock for DevOps is that





WHY IS TIME THE GREATEST CHALLENGE?

current. Let's look at a scenario to get a better idea. The only way to guarantee application performance and minimize the amount of bugs discovered later in the process is

Creating applications can take too long given the challenges of provisioning new storage, moving data, masking it, and keeping it

PROBLEM

to test against a fresh copy of the whole production data set.

STANDARD SOLUTION



copy of the production data set.

DBA realizes that there is not

enough storage capacity allocated

Developer submits provisioning

request to the DBA for a fresh



to support the request and thus requests the storage administrator to provision the appropriate capacity.



STEP 3

The DBA then makes the copy &

runs any necessary scripts to

prepare it for the developer.





• Consumes expensive disk space

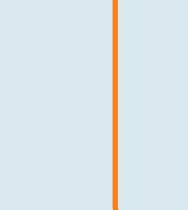






DevOps is all about bringing development and operations engineers together & these tools are intended to aid teams in their journey to closely align product goals, which in turn lead to alignment in achieving business objectives.

CONFIGURATION MANAGEMENT TOOL



OPTIONS

Chef

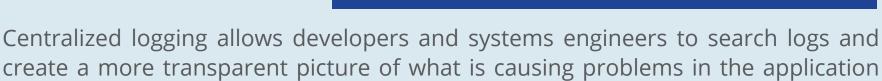
The usual preference of system engineers. **Puppet** Saltstack Easily scalable, therefore suited for variable organization size. Does not require an agent. Ansible

The weapon of choice for developers.

CENTRALIZED LOGGING TOOL

There are numerous configuration management tools that automate the configuration

of compute instances and applications. The key is to pick one and standardize on it.



stack, or where performance tuning may make a difference.

Has excellent analytics capabilities, packaged in a SaaS offering. Has the most intuitive web interface among this bunch, starts with SaaS.

SOURCE CODE MANAGEMENT TOOL Placing all automation, configuration, and application code into the same repository allows every component to run an application to reside in the same place, the SCM.

One of the most trusted logging tools, lacks SaaS capabilities.



OPTIONS

Jenkins

Travis CI

OPTIONS

SumoLogic

Splunk

Loggly

Has an ecosystem of support tools, allows for commit triggers. **Bitbucket** Allows you to control user authentication through centralized user management.

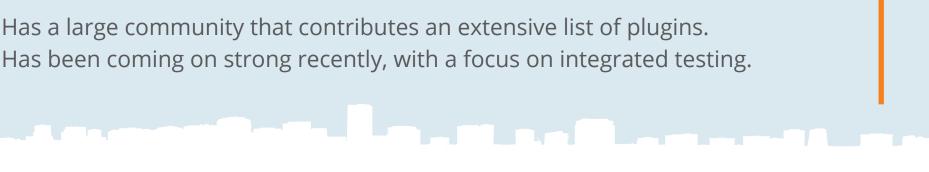
One of the newer tools on the block, also has an option in codeCommit.

less time doing lower value tasks, freeing them up to focus on new feature creation and deeper automation in the deployment process.

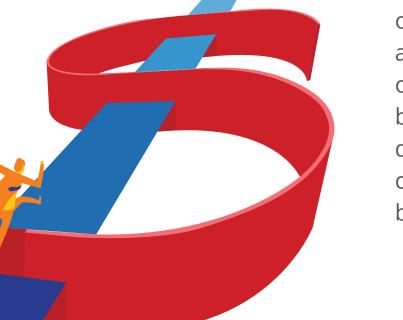
Teams adopting the use of Continuous Integration (CI) tools find that they spend

Has a large community that contributes an extensive list of plugins.

CONTINUOUS INTEGRATION TOOL



By replacing legacy systems with simple, fast, effective and virtualized data, the bottlenecks and complexity disappear



Along with expensive infrastructure, software, and operating costs. Having instant access to unlimited amounts of production data not only eliminates resource overhead but also provides a medium to satisfy all of the business' testing procedures. Thus, developers are able to deliver better quality code and expedite the development cycle which drives immediate value to the company's bottom line.



SOURCES: http://relus.com/how-to-conquer-devops-challenges/ http://relus.com/how-to-shatter-bottlenecks-devops-style/ http://relus.com/5-essential-tools-for-devops-success/