BDD with Puppet & Cucumber

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Agile Release Management
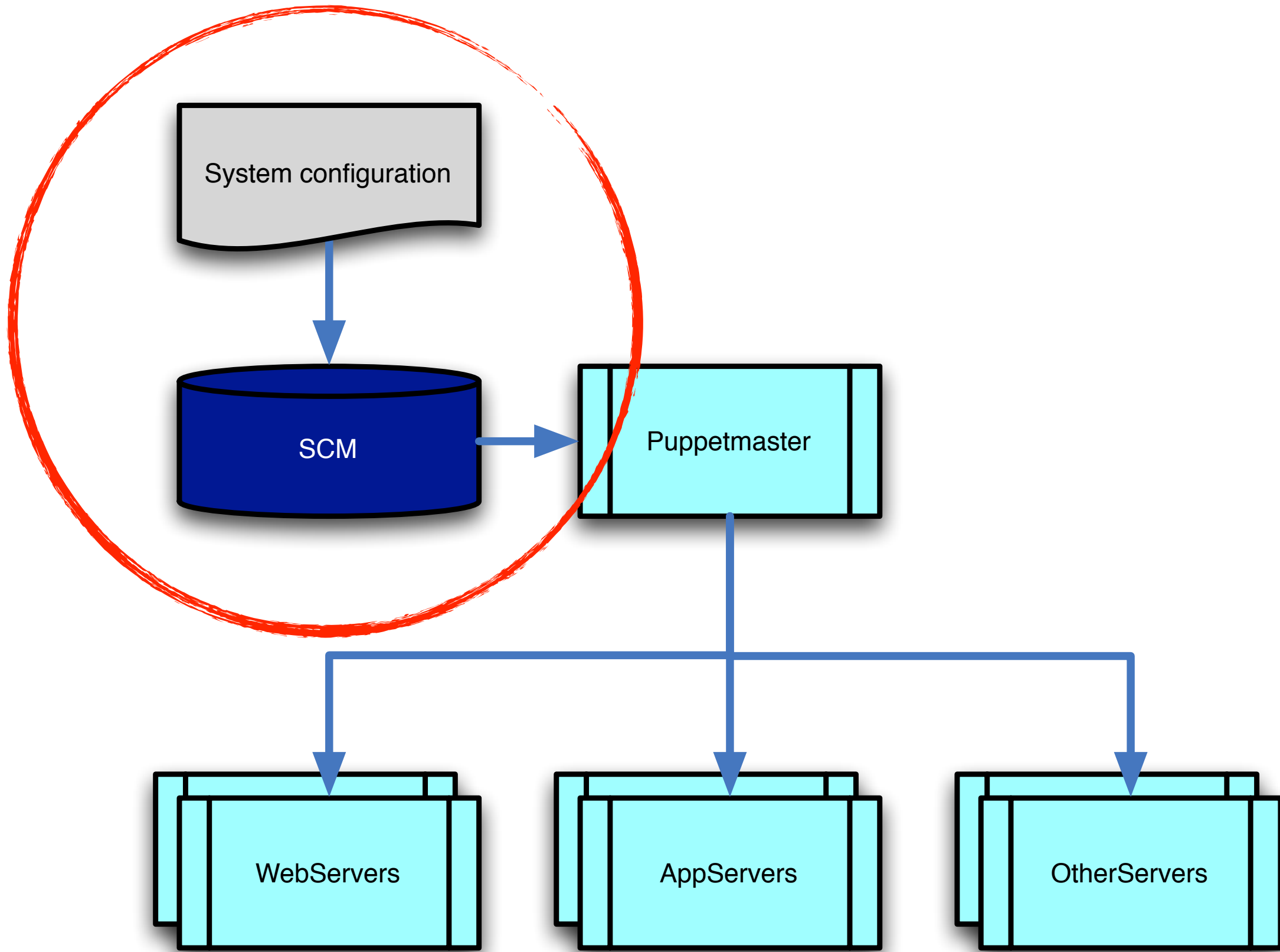
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What's Puppet

http://www.puppetlabs.com/

What is puppet for?

Managing many systems

Managing configuration

System consistency

Treating infrastructure as code

System configuration

SCM

Puppetmaster

WebServers

AppServers

OtherServers

Infrastructure as code

SCM practices

Refactoring

Self-documentation

Build pipeline

Testing

Puppet structures

External DSL

Modules

Manifests

Puppet demo/exercise

Testing Puppet

Have a test server?

Implicit testing?

Use a test harness!

Behaviour-Driven Development

"BDD is a second-generation, outside-in, pull-based, multiple-stakeholder, multiple-scale, high-automation, agile methodology." - Dan North

BDD

Describes system behaviour

Uses plain English

Given... , When... , Then...

Automated tests

Helps 'business' and 'technology' communicate

BDD is good for operations

Make it work!

Fill in the gaps left by development

Describe complexity to business

cucumber-puppet

http://github.com/nistude/cucumber-puppet

How this helps

Make changes fearlessly

Refactoring

Lightweight change control

Common toolset & language

Demonstration

Questions?

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