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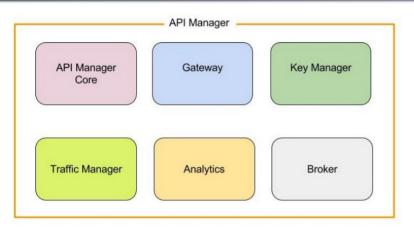


Successful operation automation usually needs, along with core tool technical skills some knowledge about the system under test - not strictly but is recommended. For example, (no)SQL, Angular would be a great help in web testing, HTML / Javascript no longer sufficient.

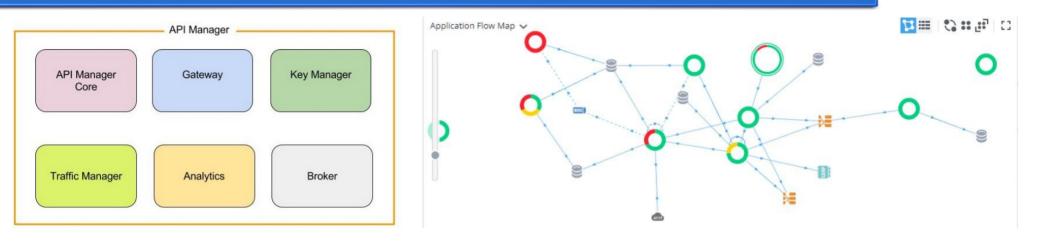
Often more critical than provision engine (Puppet, Chef, Ansible, DSC learning curve.

QA engineer using Selenium or Katalon often is or willing to grow as Web developer but unlikely ever interested in the code base of those tools.

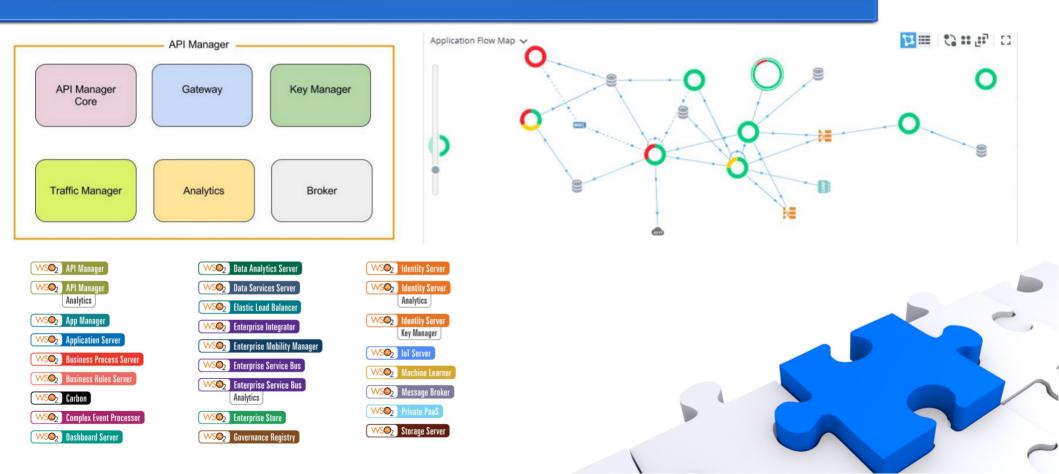




Cloud cluster provisioned by some automation workflow serves as platform for some modern application stack



Cloud cluster provisioned by some automation workflow serves as platform for some modern application stack



There isn't any 'spy' facilities for server spec or unit test developments, neither are any in pure Ruby, Java or .Net, nor there is any 'recording' environment. To help new developers learn and quickly adopt to server spec follow clear *Rspec/Cucumber* semantics:

describe service('tomcat') do

```
It is shorter then the underlying command
describe command("/bin/gem list --local #{package name}") do
      its(:stderr) { should be empty }
      its(:exit_status) {should eq 0 }
      its(:stdout) { should match Regexp.new(package version) }
end
A slighly less magical expectation
context 'Virtual Host settings' do
  describe file('/etc/httpd/conf.d/vhost.conf') do
    [ 'ProxyRequests Off', ].each do |line|
      its(:content) { should match "^\s*" + Regexp.escape(line) }
    end
  end
end
```

```
Eventually the command is where the tricky part is:
```

describe command(<<-E0F</pre>

#{web xml}

do

E0F

end

```
describe command('curl -k -I http://localhost') do
  its(:stdout) { should match /Server: Apache\/\d\.\d+\.\d+ *\((:?Unix|CentOS)\)/i }
end

context 'Tomcat web.xml configuration' do
  class name = 'com.mycompany.mypackage.ControllerServlet',
```

xmllint --xpath "//\*[local-name()='servlet']/\*[local-name()='servlet-class']/text()"

https://tomcat.apache.org/tomcat-8.5-doc/appdev/web.xml.txt

its(:stdout) { should match Regexp.new(class\_name) }

its(:exit status) { should eq 0 }

Eventually the *command* is where the tricky part is:

https://tomcat.apache.org/tomcat-8.5-doc/appdev/web.xml.txt

