

BOSTON, MA JUNE 23-26, 2015

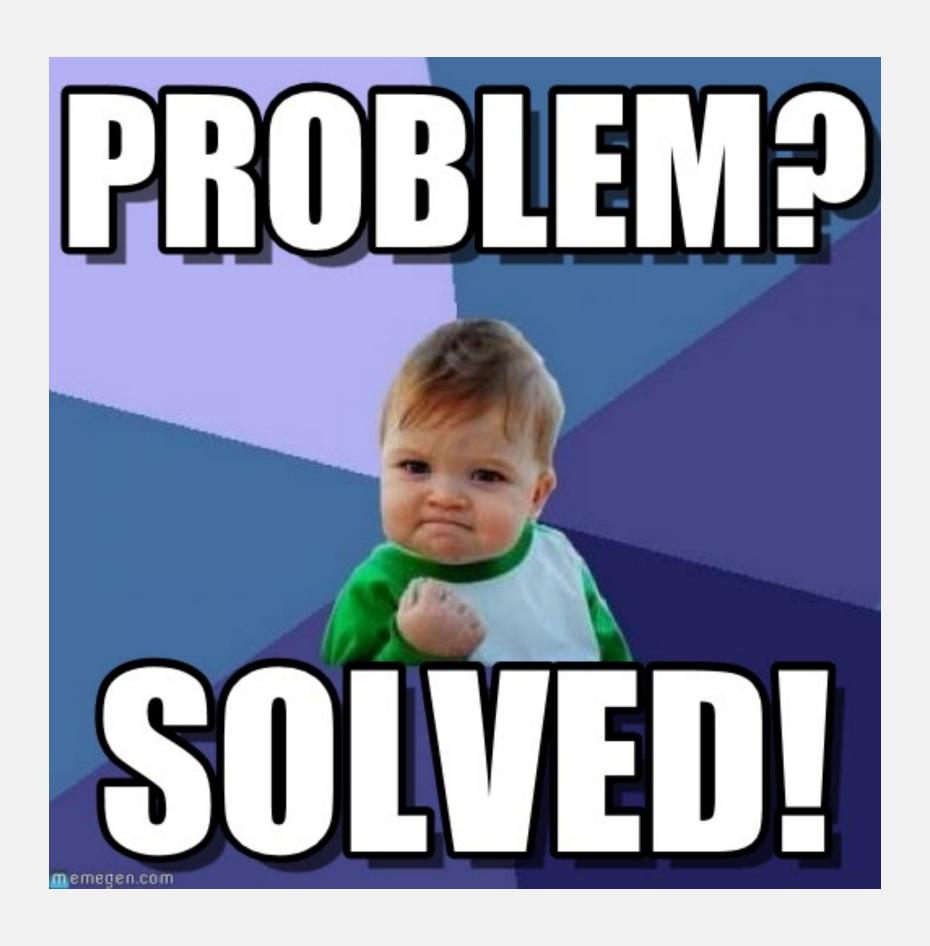
# Red Hat CloudForms, Red Hat Satellite 6, & Puppet for automating JBoss EAP 6

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#### Forgone Conclusion





#### Investigate

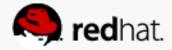


#### Implement



#### Inspire





# Investigate



Determine Purpose

**Know Thyself** 

Choose Your Path



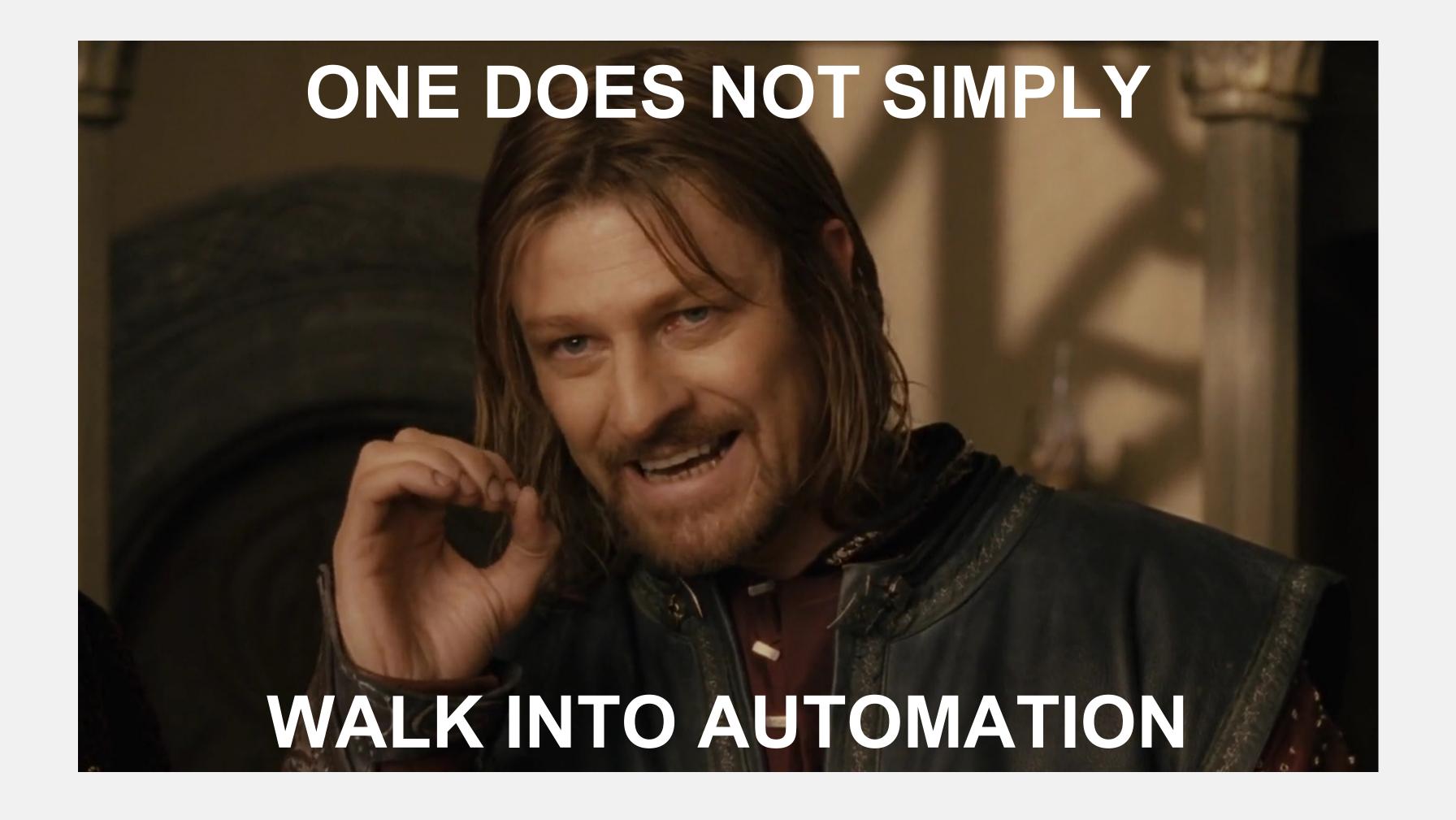
#### Purpose

"...your scientists were so preoccupied with whether or not they could that they didn't stop to think if they should."

- Dr. lan Malcolm



#### Know Thyself: Existing Infrastructure



Source: Lord of the Rings: The Fellowship of the Ring, New Line Cinema (2001)



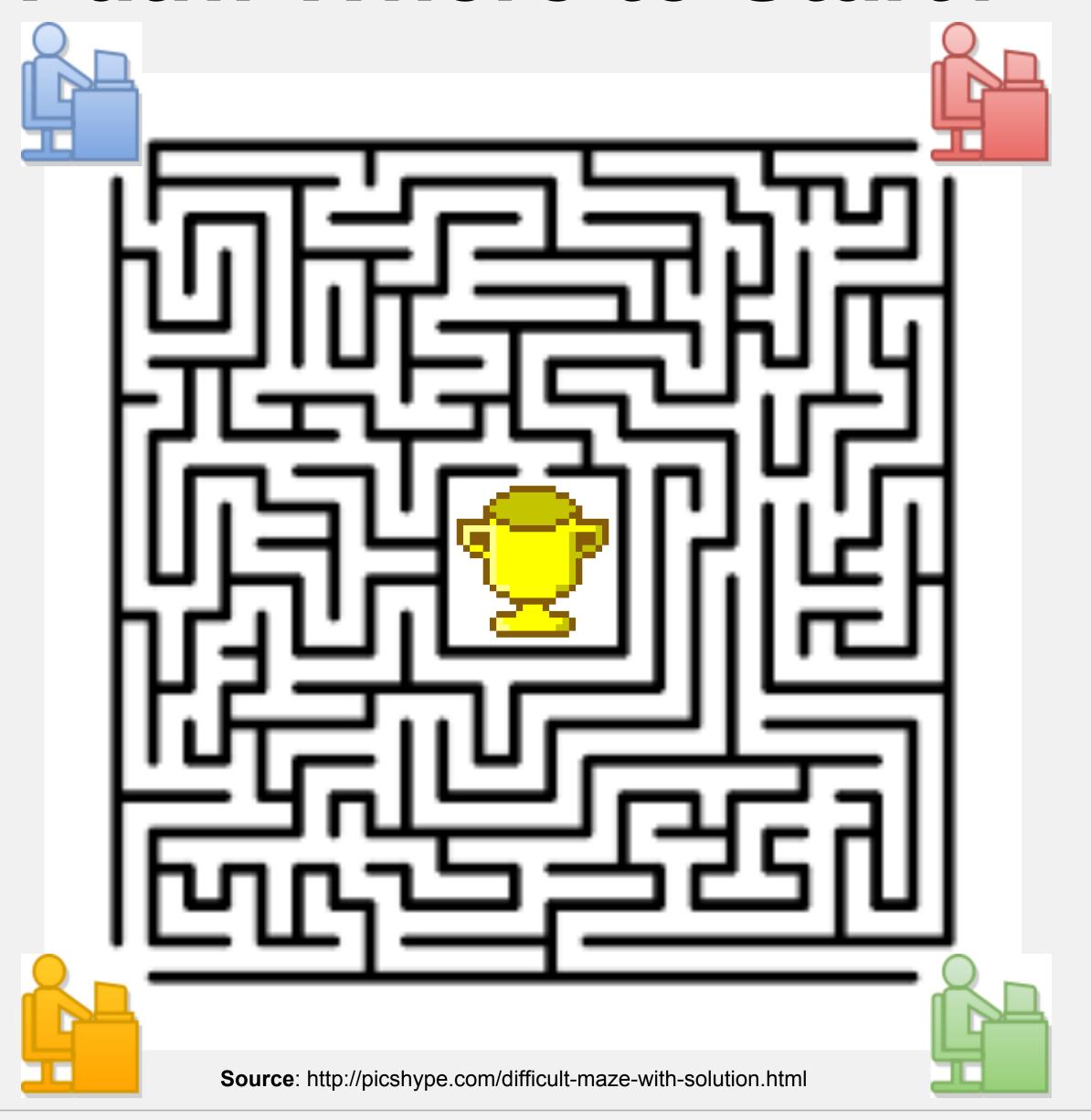
#### Know Thyself: Culture

"Aahh, now, are you going to go ahead and have those TPS reports for us this afternoon?"

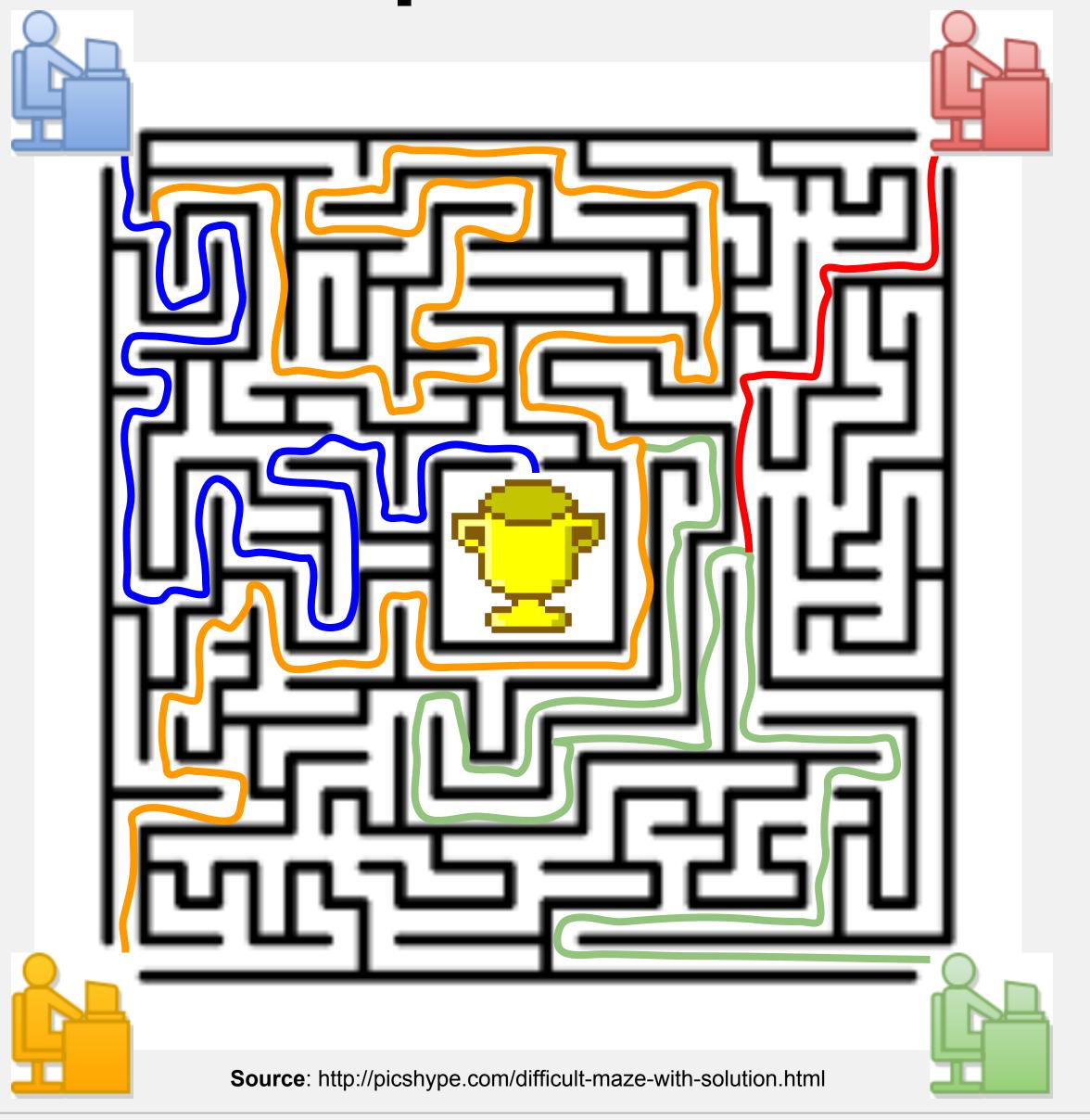
- Bill Lumbergh



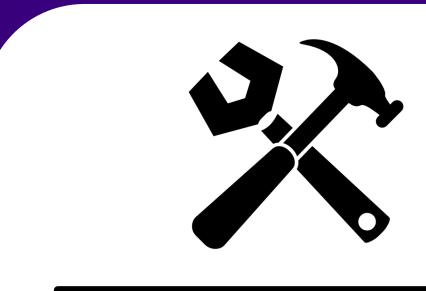
#### Path: Where to Start?



## Path: Unique but Different



# Implement



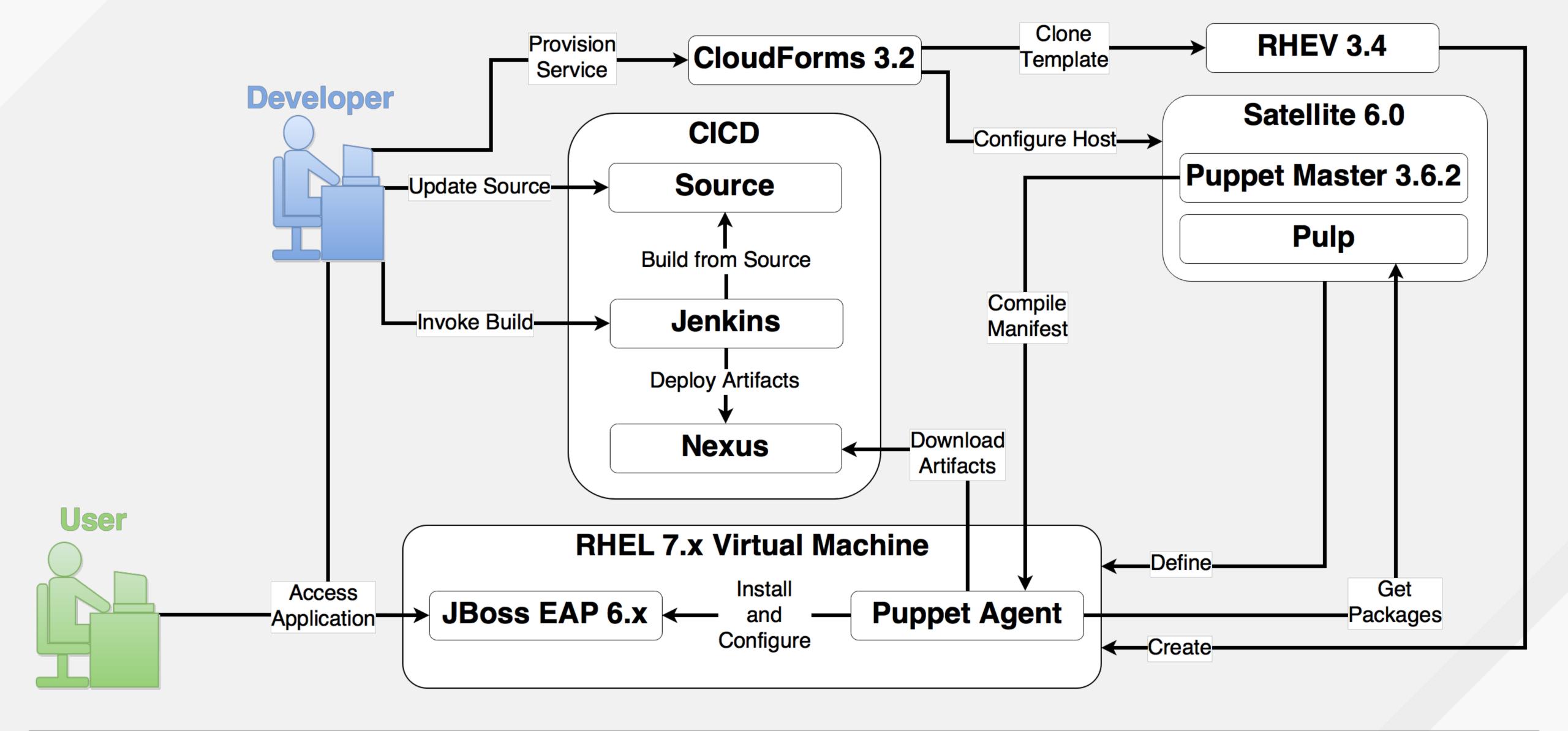
Puppet

Satellite

CloudForms

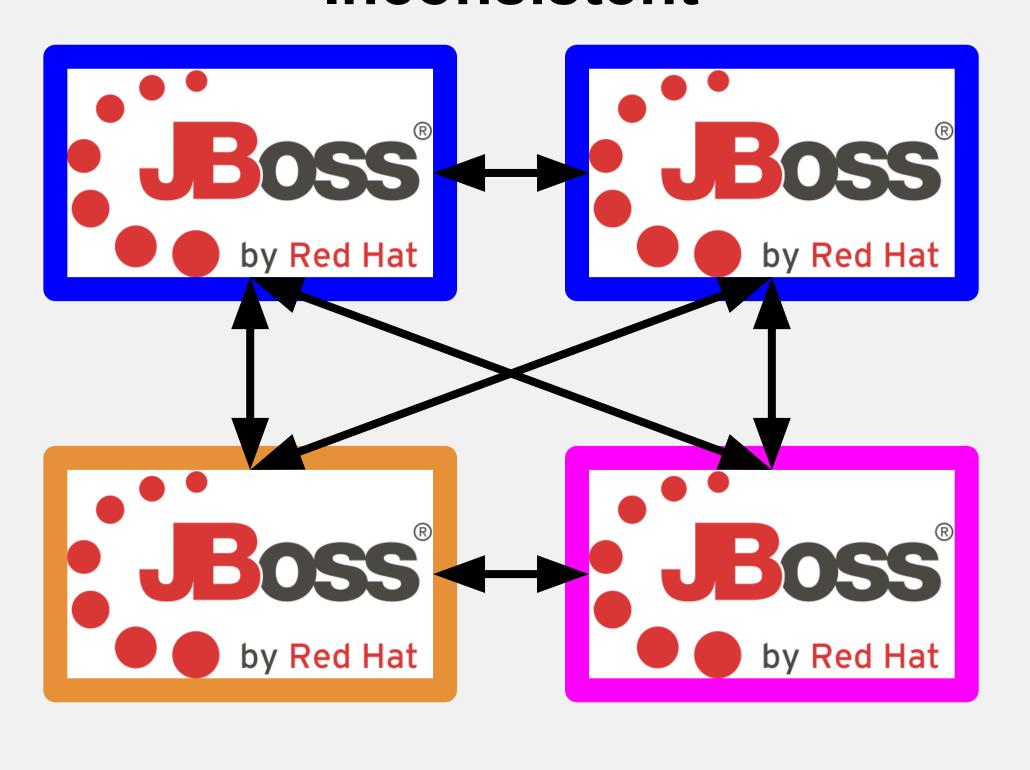


#### End-To-End



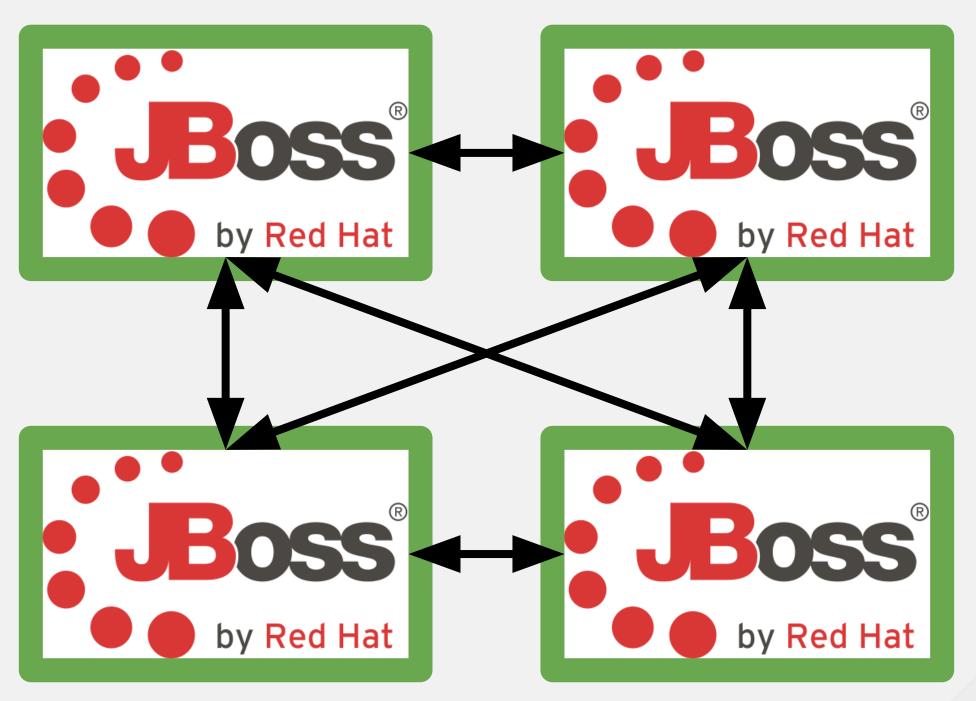
#### JBoss EAP 6.x

#### Inconsistent



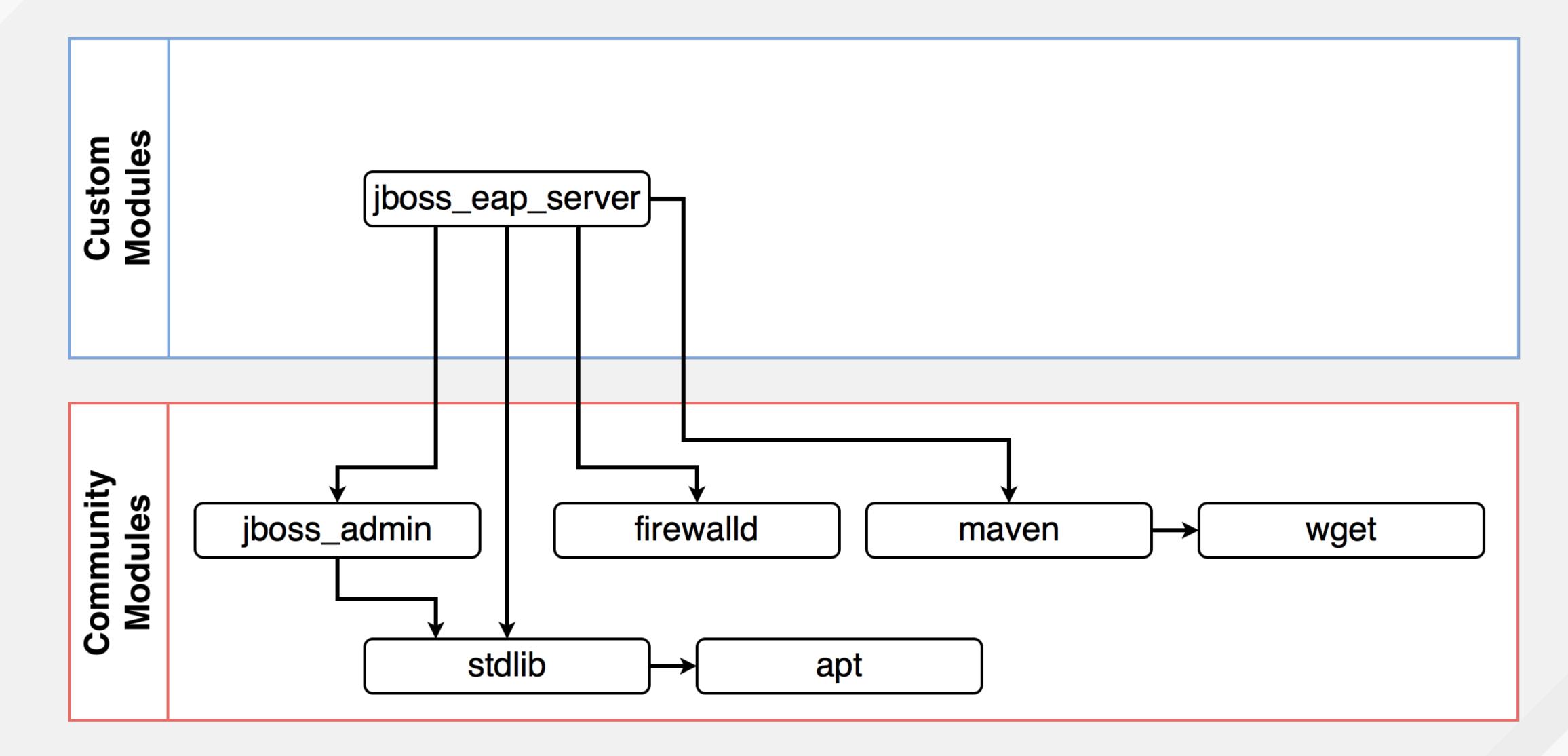
VS

#### Consistent





## Puppet and Community



# Puppet & JBoss Example: jboss\_admin Module

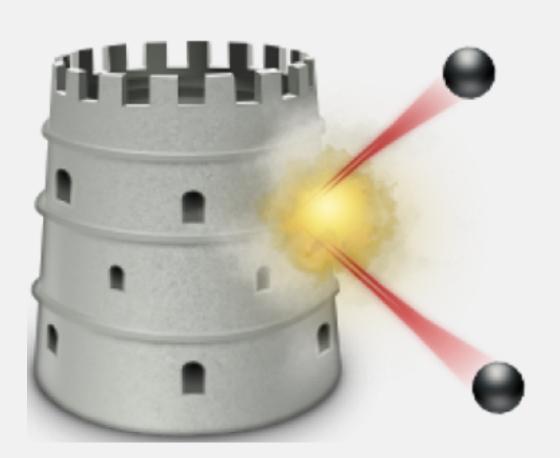
```
jboss admin::server {'main':
 base path => '/opt/jboss'
jboss_admin::resource::data_source{'/subsystem=datasources/data-source=ExampleDS':
                => present,
 ensure
 connection_url => 'jdbc:h2:mem:test;DB_CLOSE_DELAY=-1',
 driver_name => h2,
 jndi_name => 'java:jboss/datasources/ExampleDS2',
      => true,
 jta
 user_name => sa,
 password => sa,
 server => main
jboss_exec {'Enable Data Source':
 command => '/subsystem=datasources/data-source=ExampleDS:enable',
 unless => '(result == true) of /subsystem=datasources/data-source=ExampleDS:read-attribute
(name=enabled)',
 server => main
```



#### Satellite 6







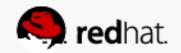




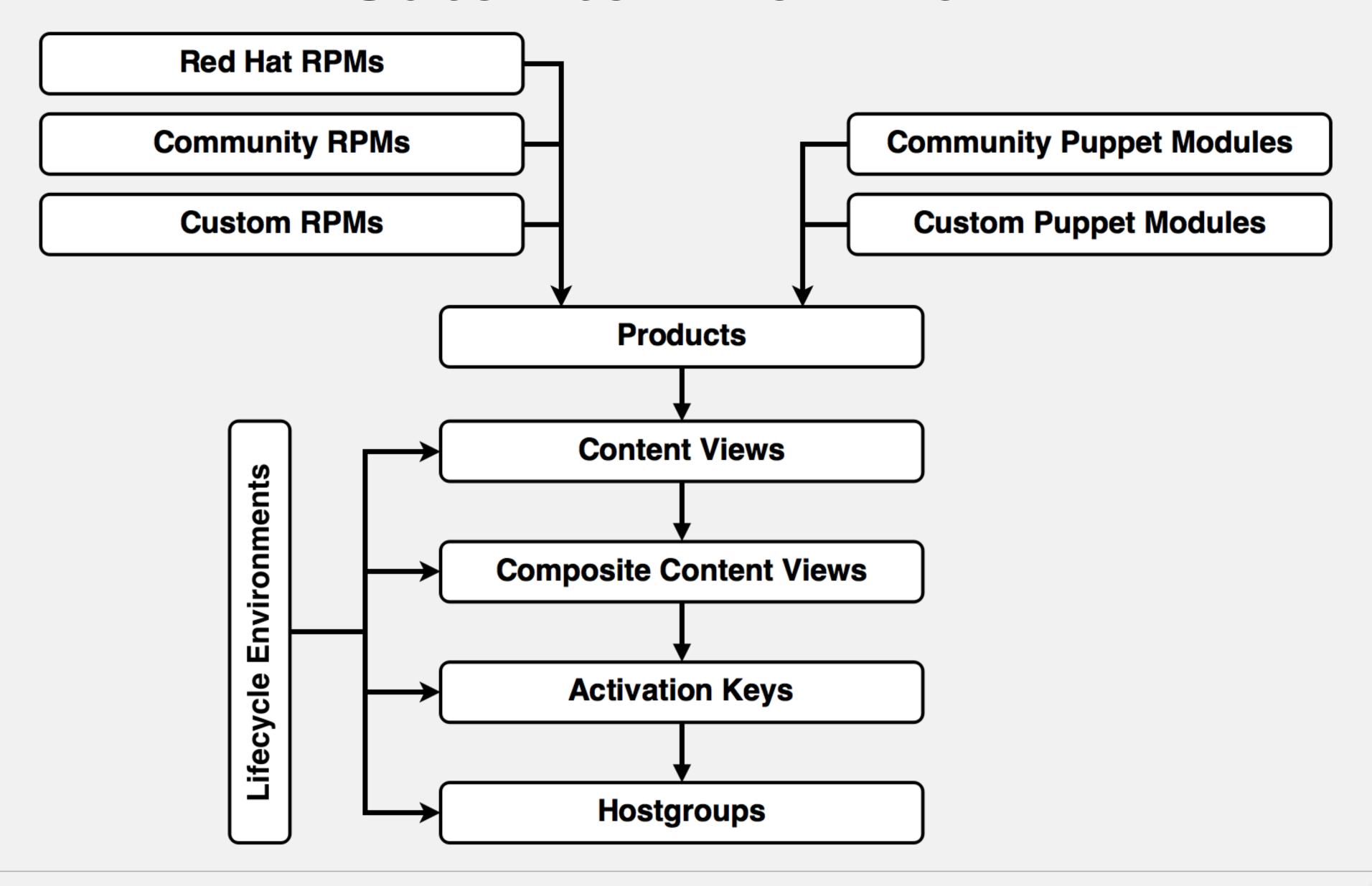


#### Satellite: Providers

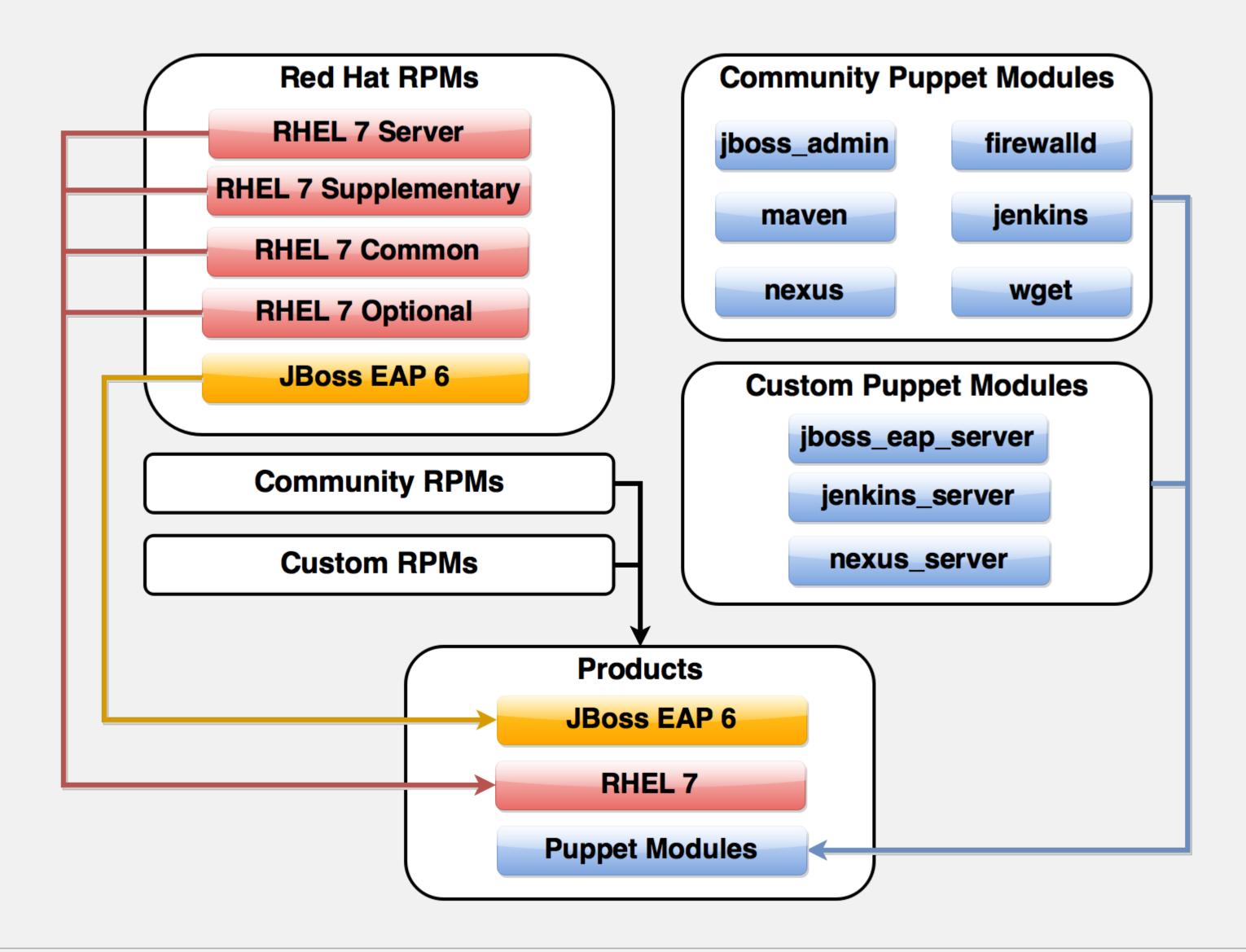




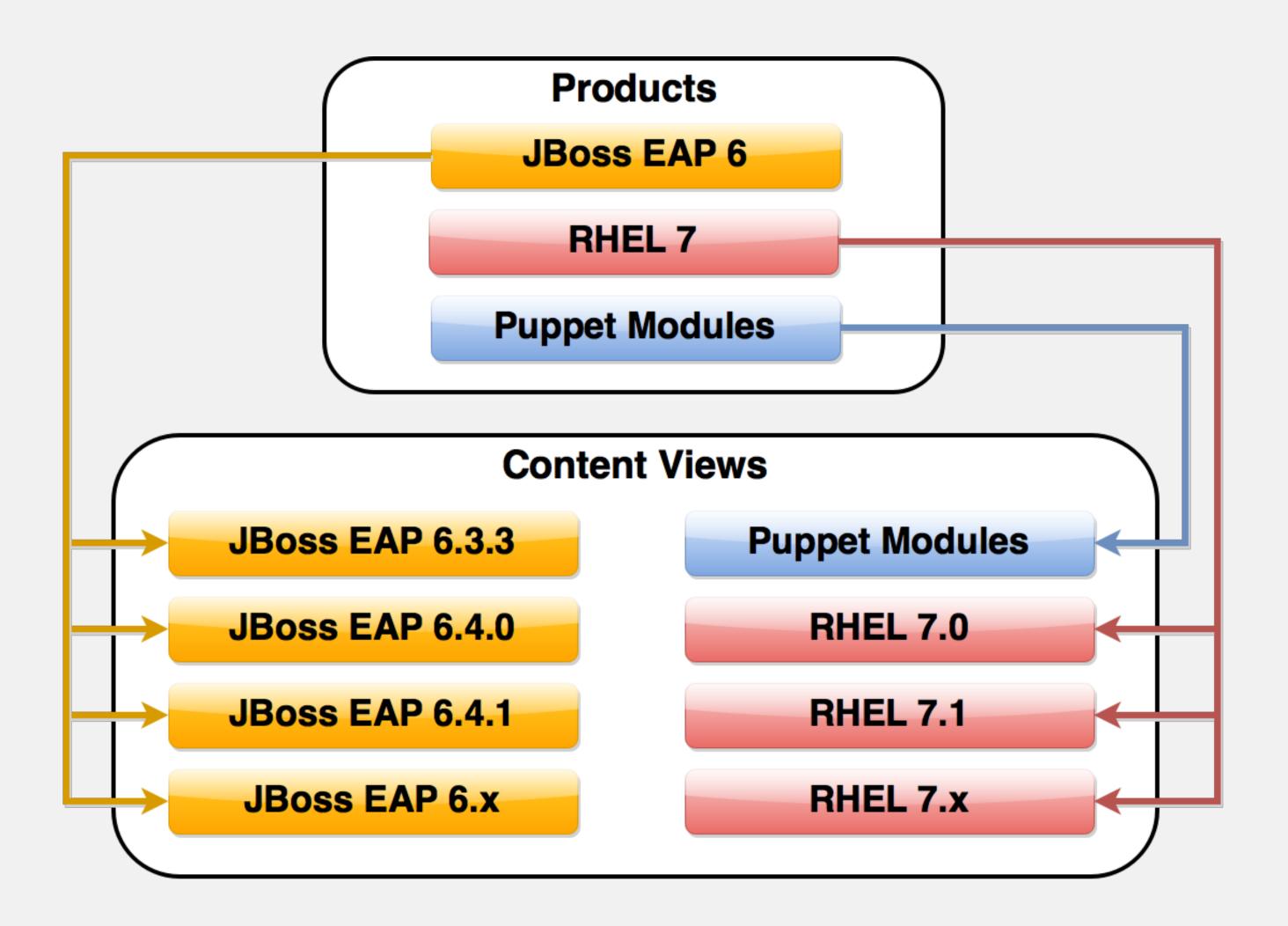
#### Satellite: Workflow



#### Satellite: Products

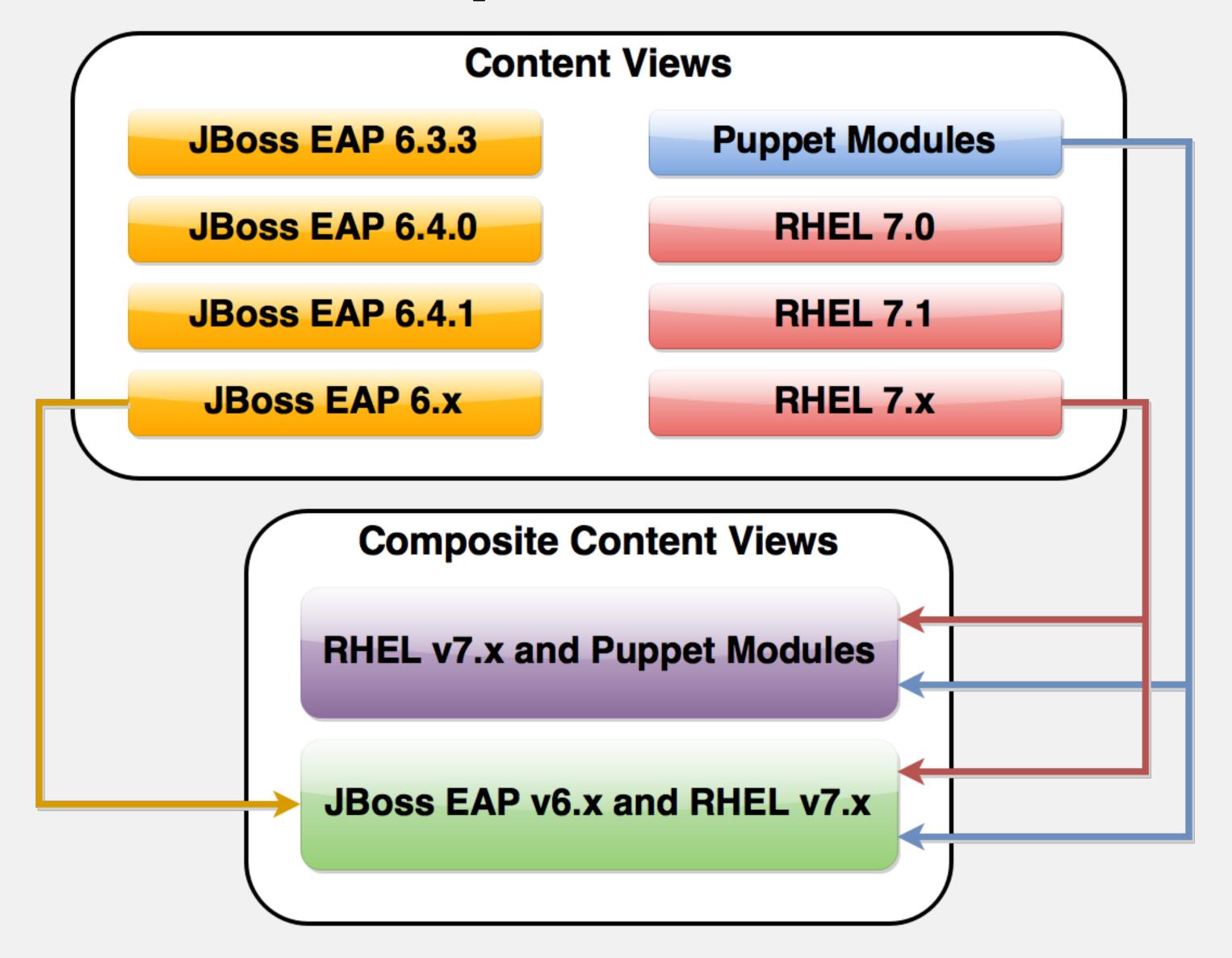


#### Satellite: Content Views

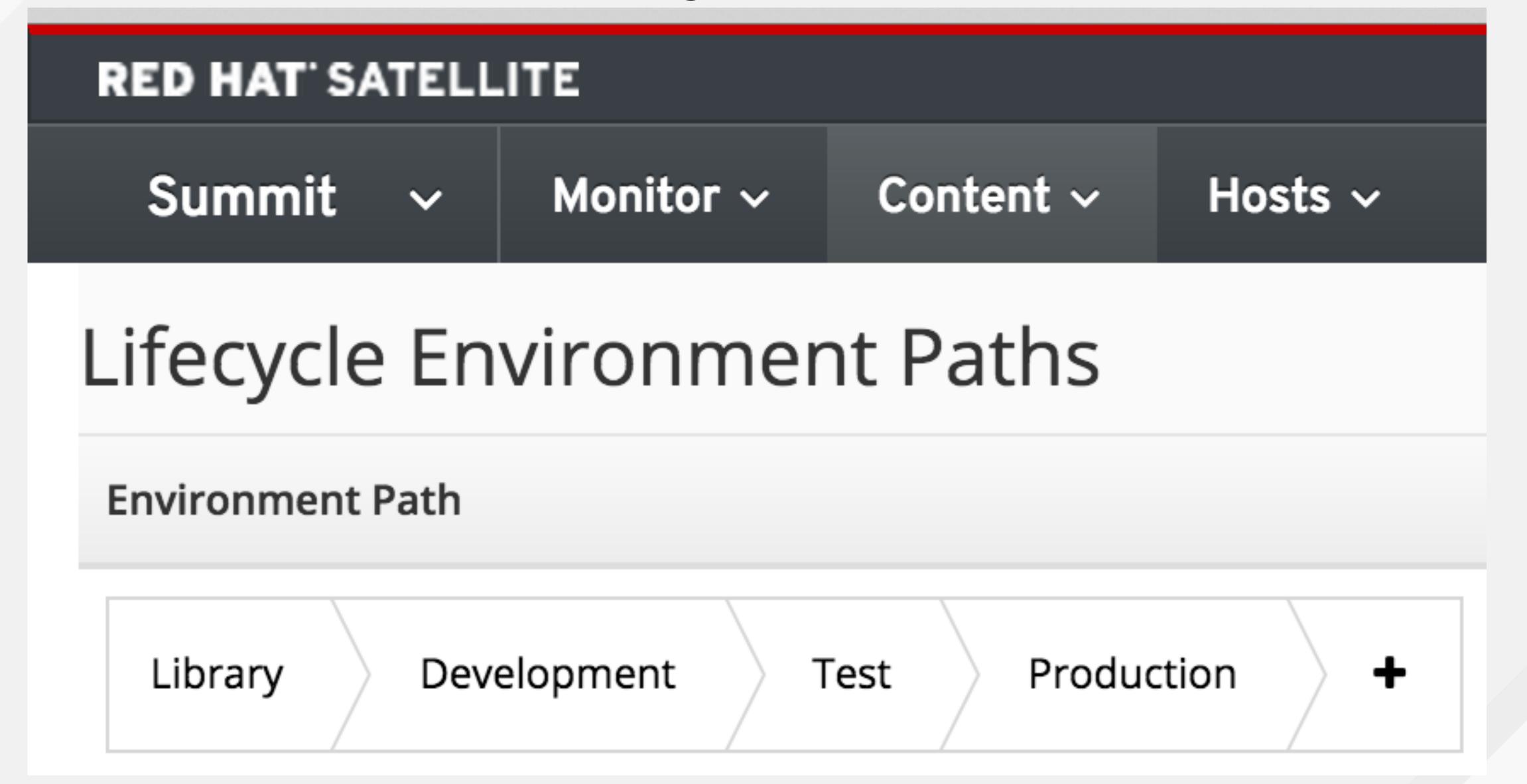




#### Satellite: Composite Content Views

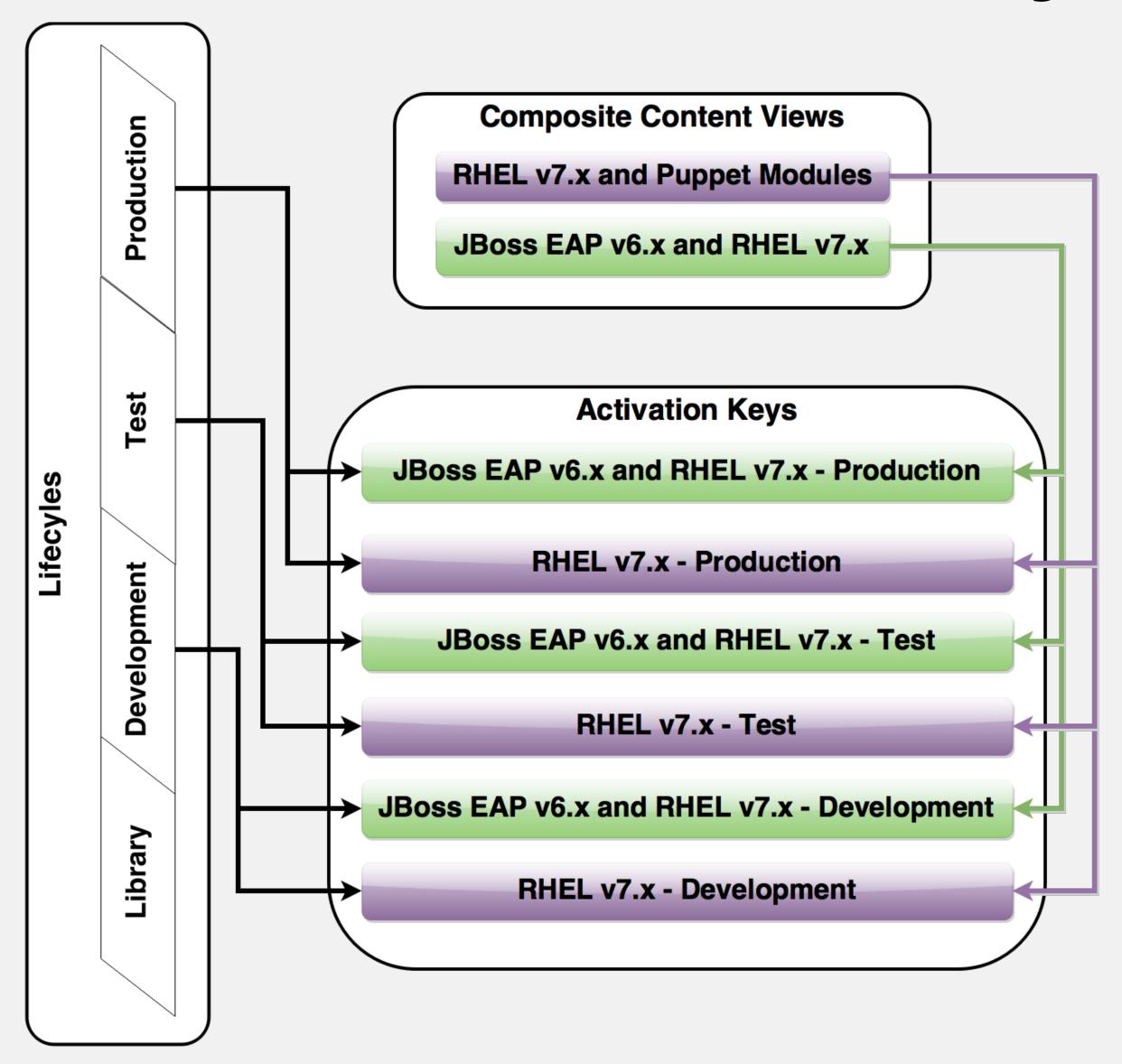


## Satellite: Lifecycle Environments

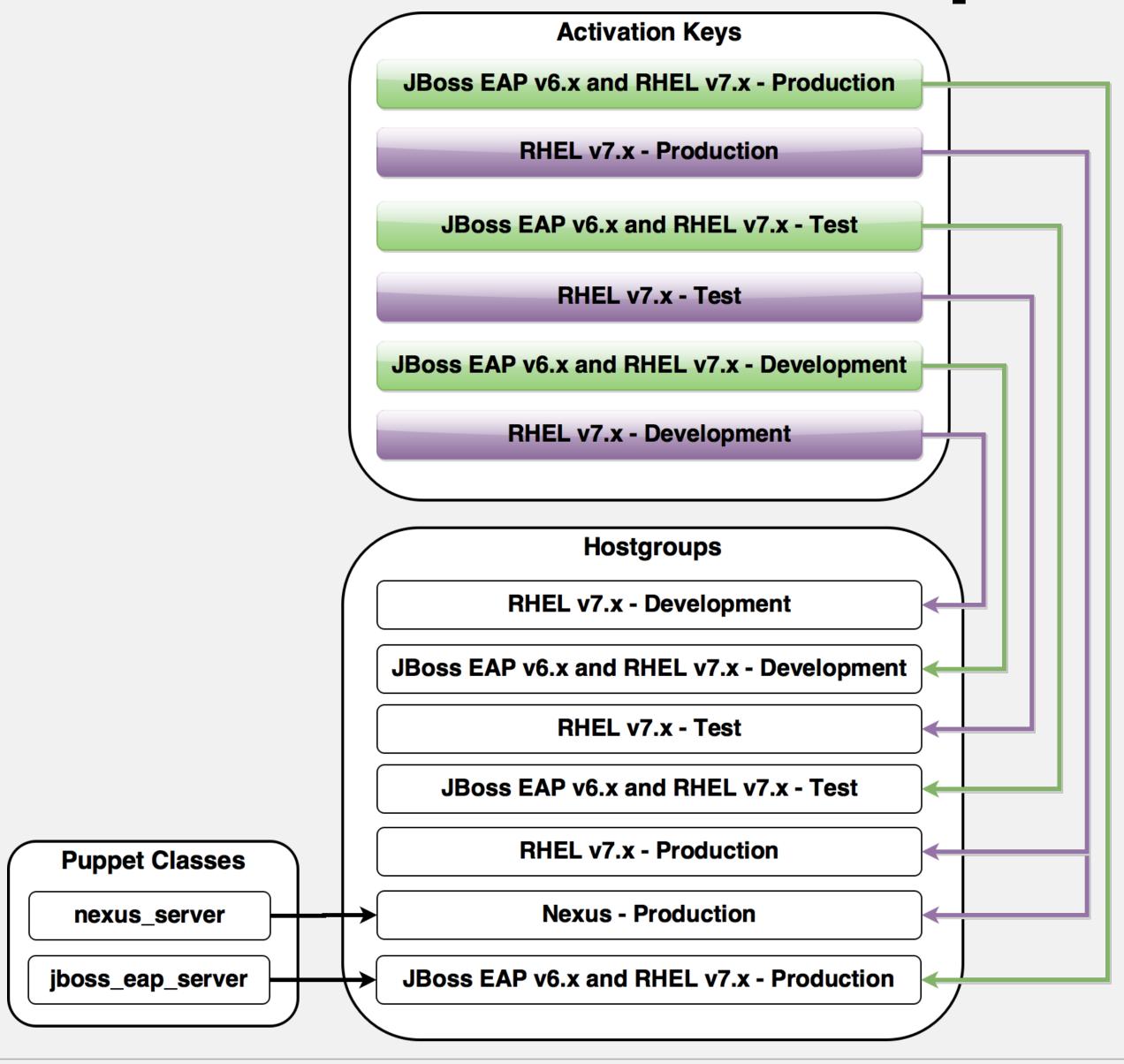




#### Satellite: Activation Keys

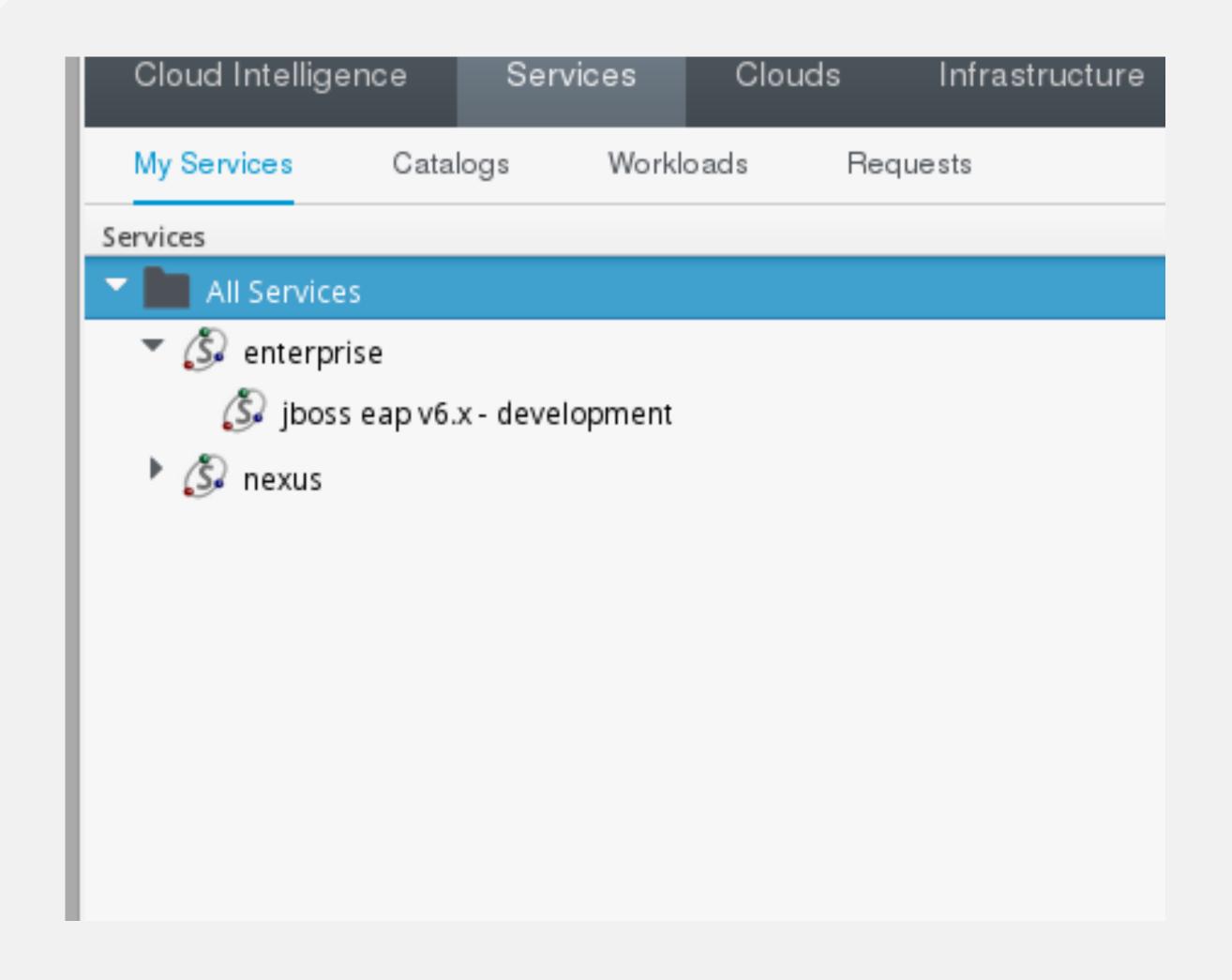


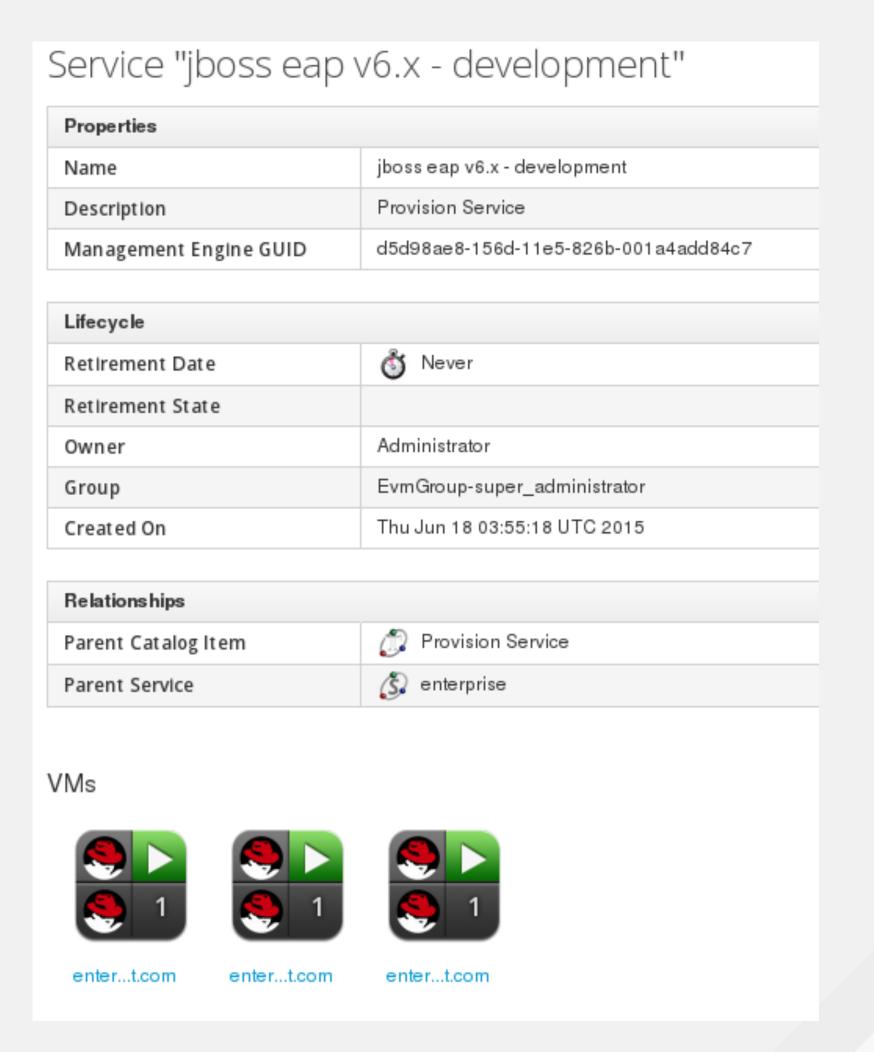
## Satellite: Host Groups





#### CloudForms: Services

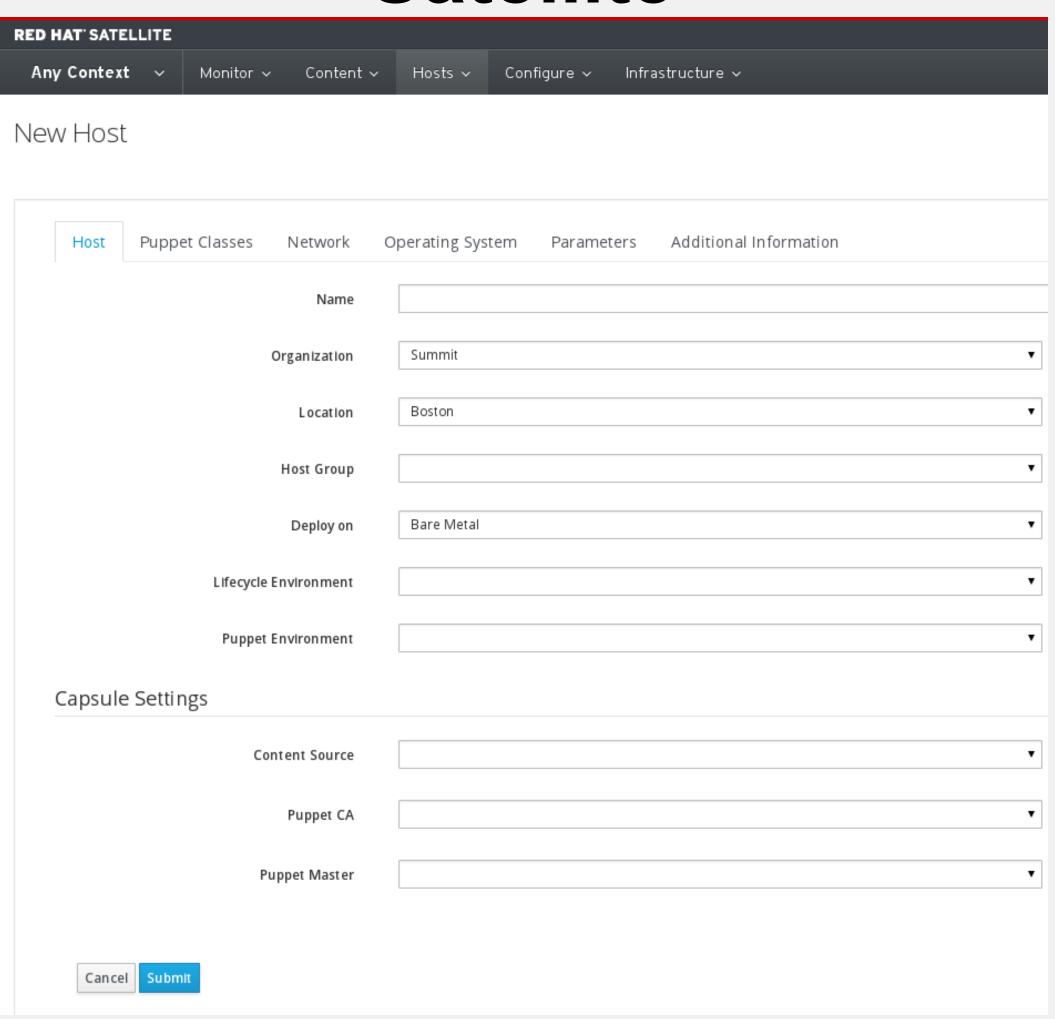




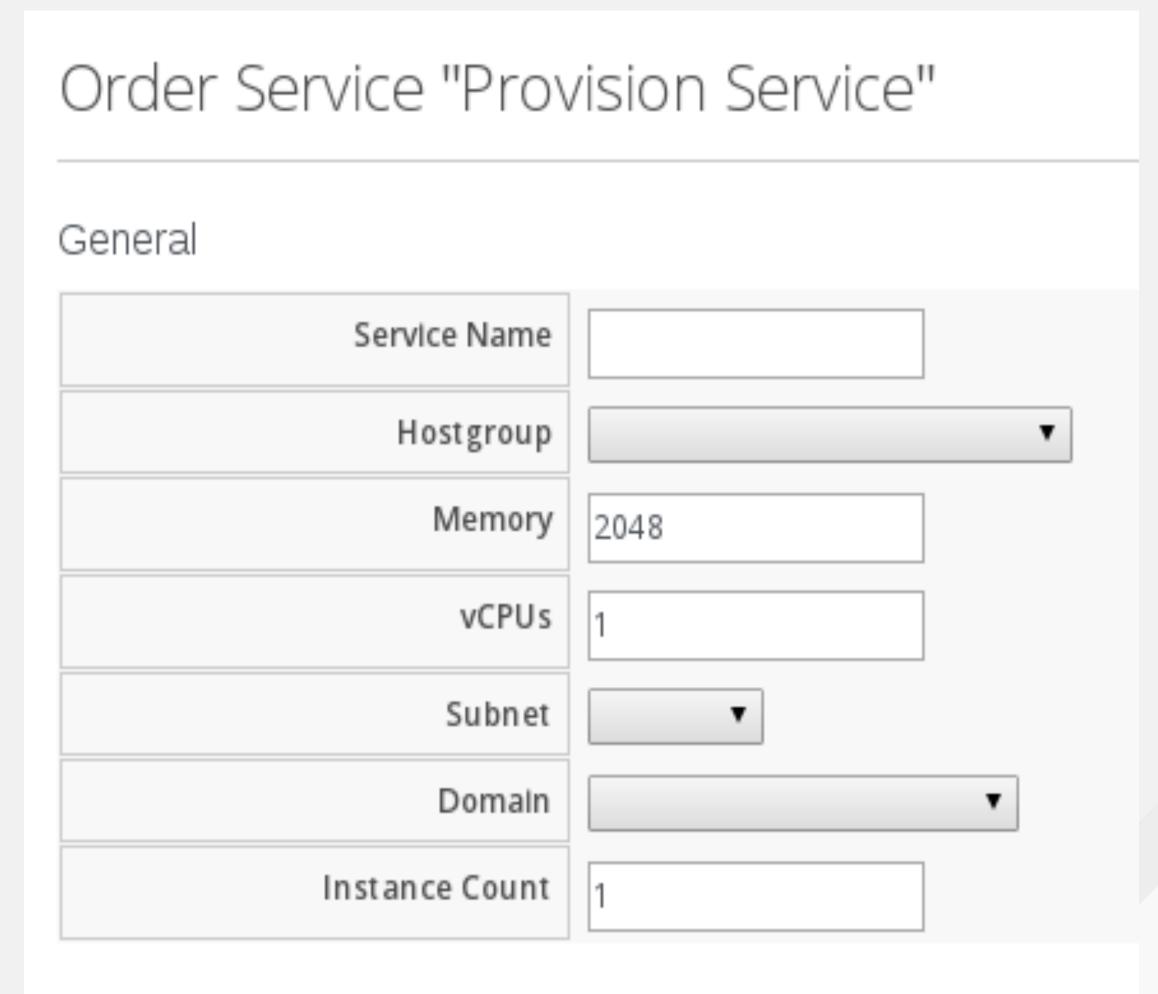


## CloudForms: User Experience

#### Satellite



#### CloudForms





## CloudForms: Integration with Satellite

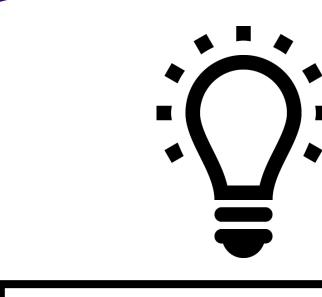




## Demo



# Inspire



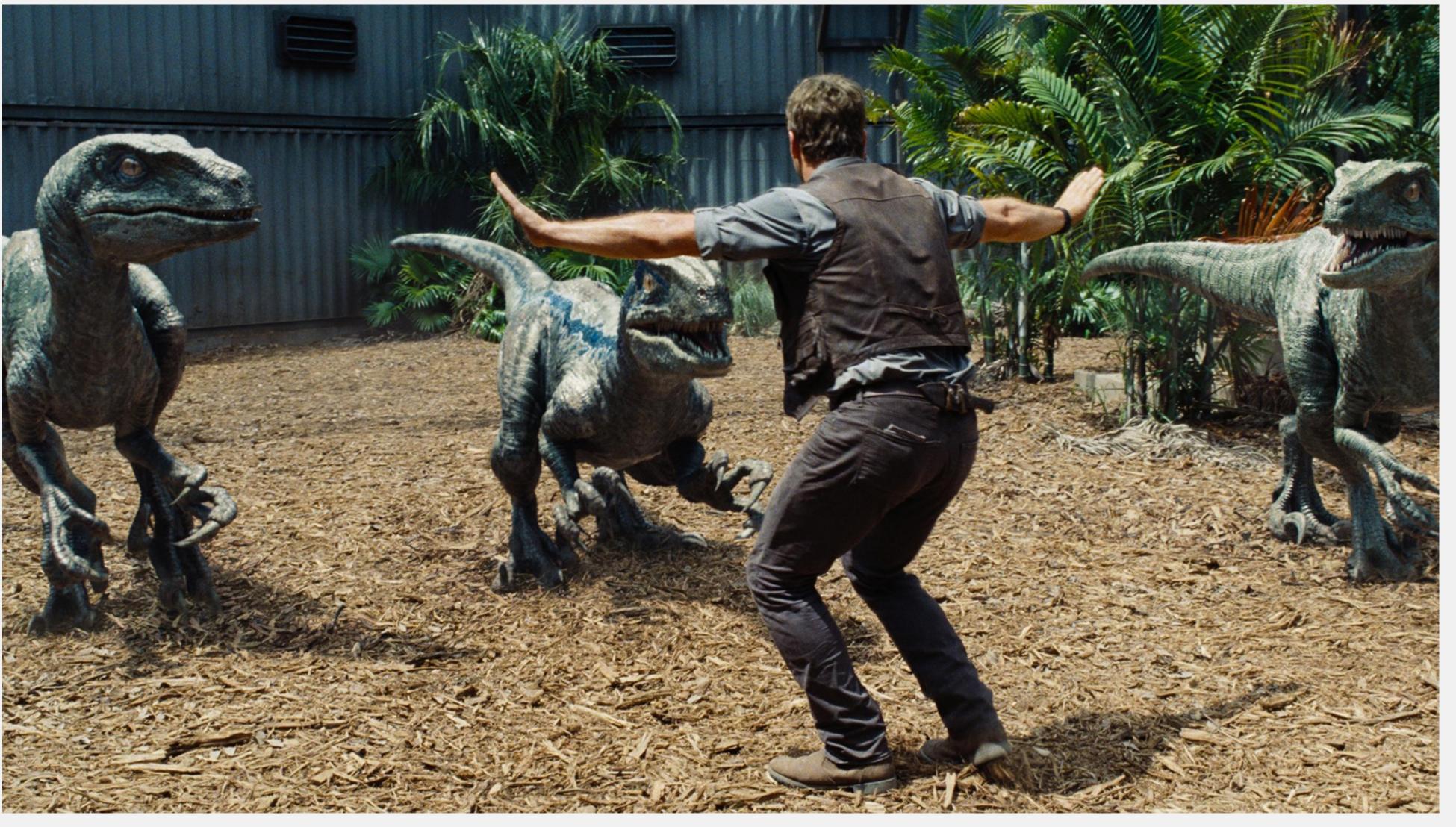
Train

**Profit** 

Feedback



#### Train



Source: Jurassic World, Universal Pictures (2015)



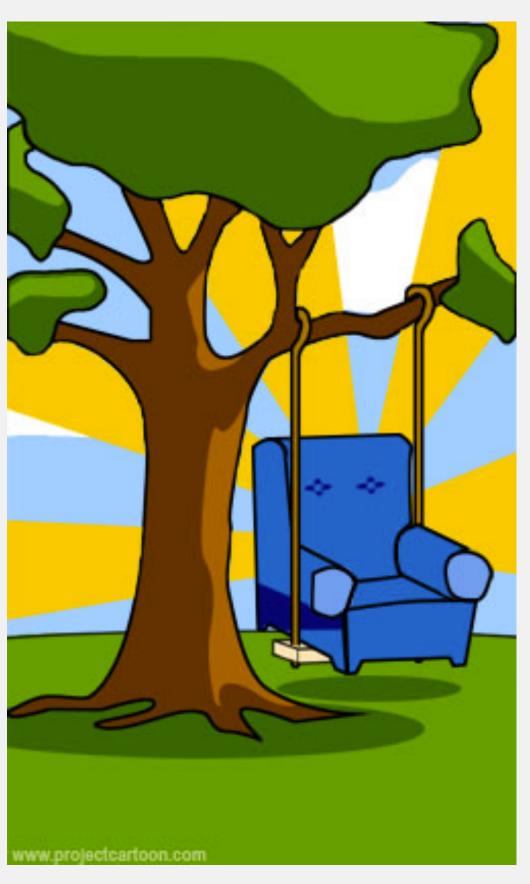
# Profit



#### Gather Feedback



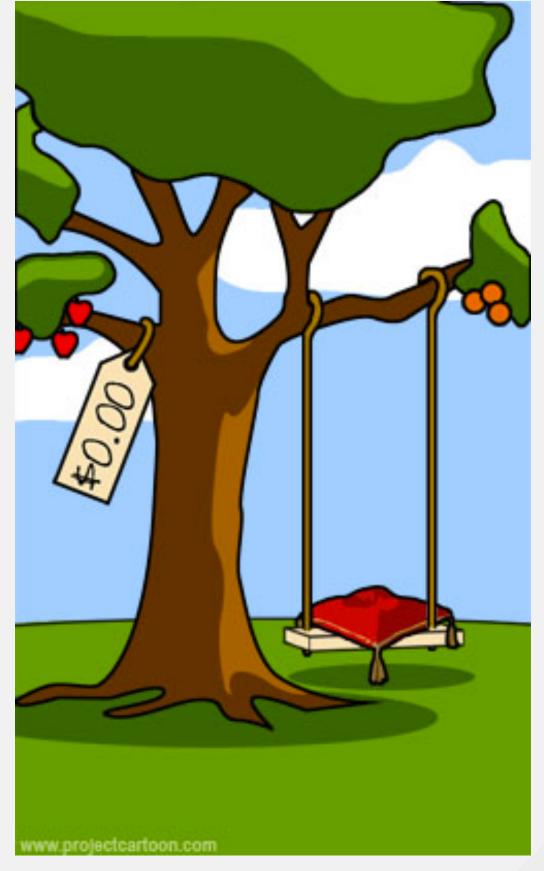
What you thought the users wanted



How you described it to the users



First iteration delivered to the users



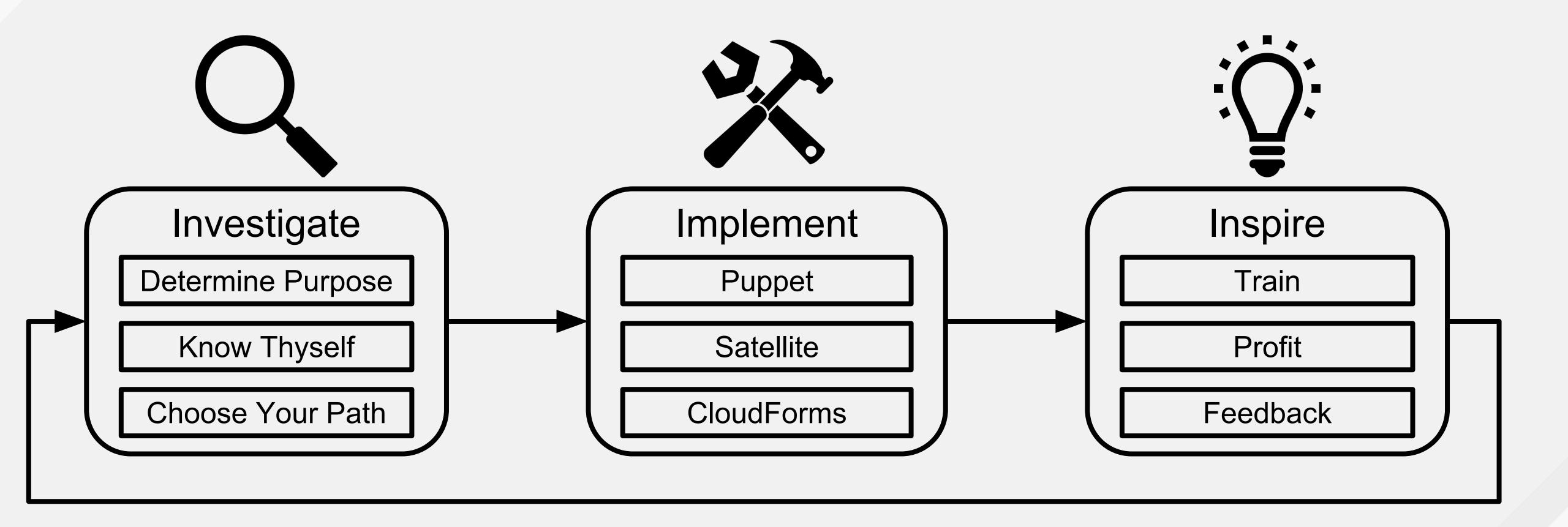
What the users actually want

Source: <a href="http://projectcartoon.com">http://projectcartoon.com</a>

Source: <a href="http://www.paragoninnovations.com/guide.shtml">http://www.paragoninnovations.com/guide.shtml</a>



#### Iterate





#### Links

- CloudForms Automate Code:
  - https://github.com/jbennett7/summit.git
- Puppet Modules:
  - jboss\_admin: <a href="https://github.com/cpitman/puppet-jboss\_admin">https://github.com/cpitman/puppet-jboss\_admin</a>
  - o jboss\_eap\_server: <a href="https://github.com/itewk/puppet-jboss\_eap\_server">https://github.com/itewk/puppet-jboss\_eap\_server</a>
  - nexus\_server: <a href="https://github.com/itewk/puppet-jenkins\_server">https://github.com/itewk/puppet-jenkins\_server</a>
  - o jenkins\_server: <a href="https://github.com/itewk/puppet-jenkins\_server">https://github.com/itewk/puppet-jenkins\_server</a>
- Connect
  - @jbnewyork7
  - o @itewk





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