



OpenShift Enterprise PaaS by Red Hat

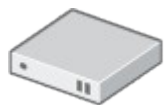
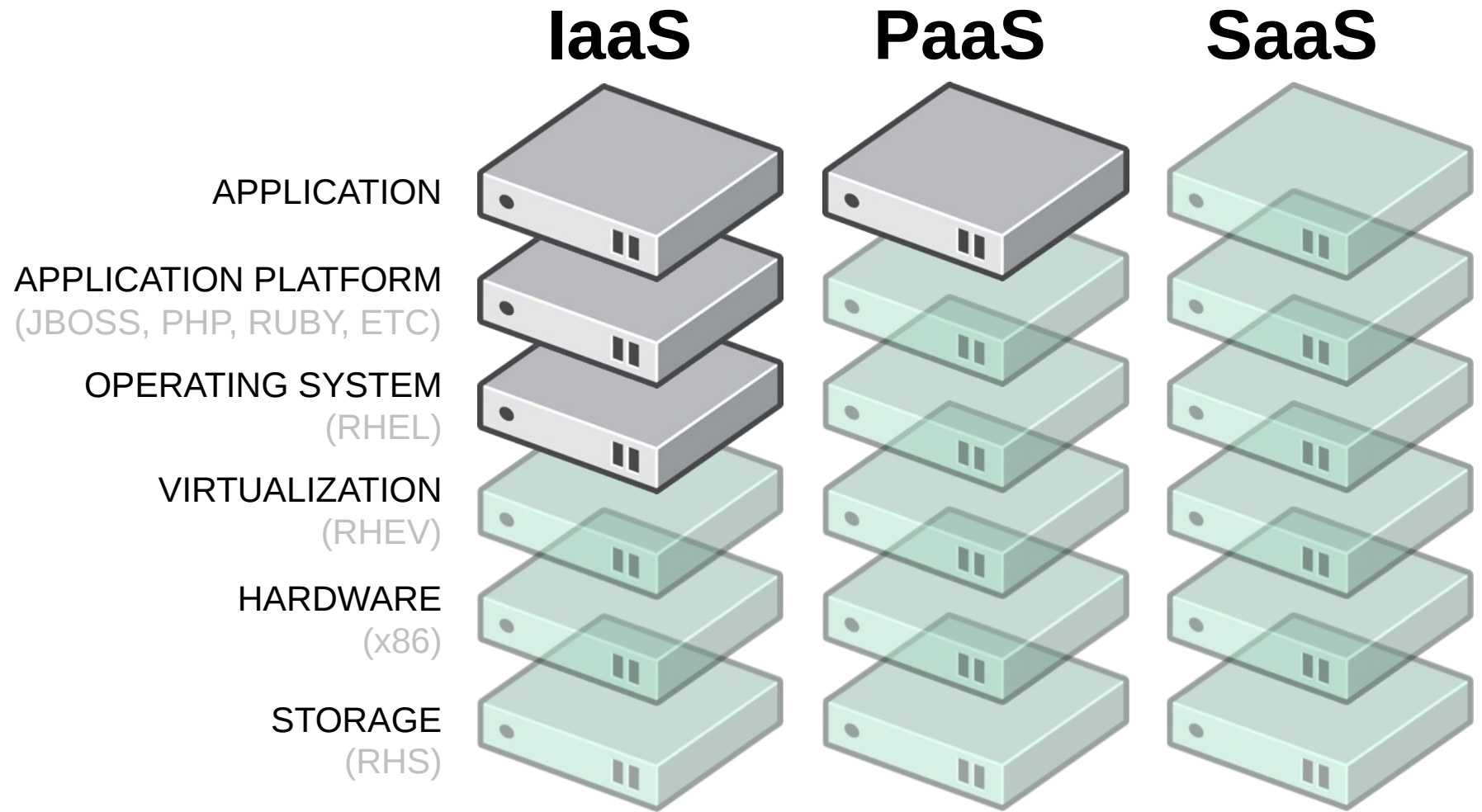
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RHCA

Red Hat, Presales Solution Architect

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Cloud Service Models



Managed and Controlled by Customer (IT, Dev, or User)

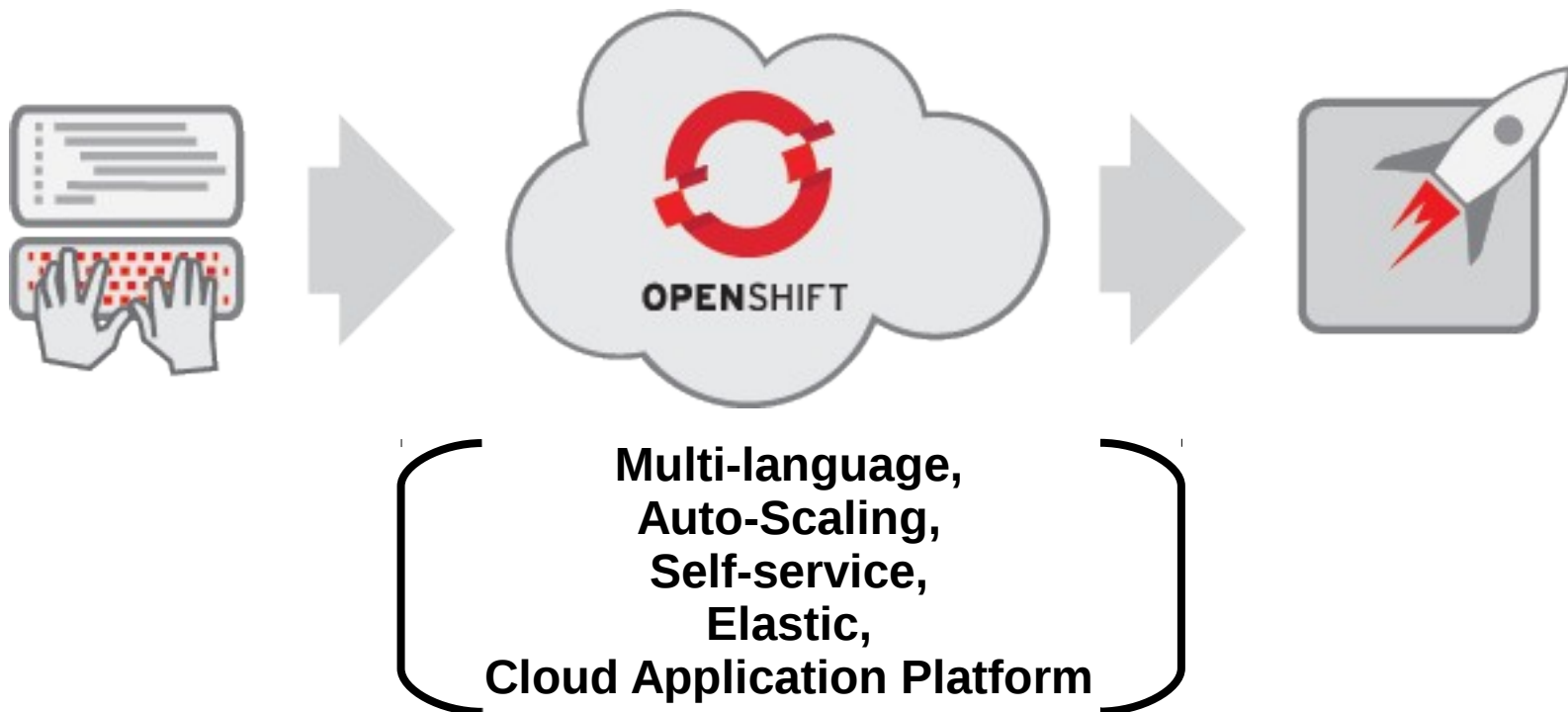


Automated and Managed by the Public or Private Cloud Offering

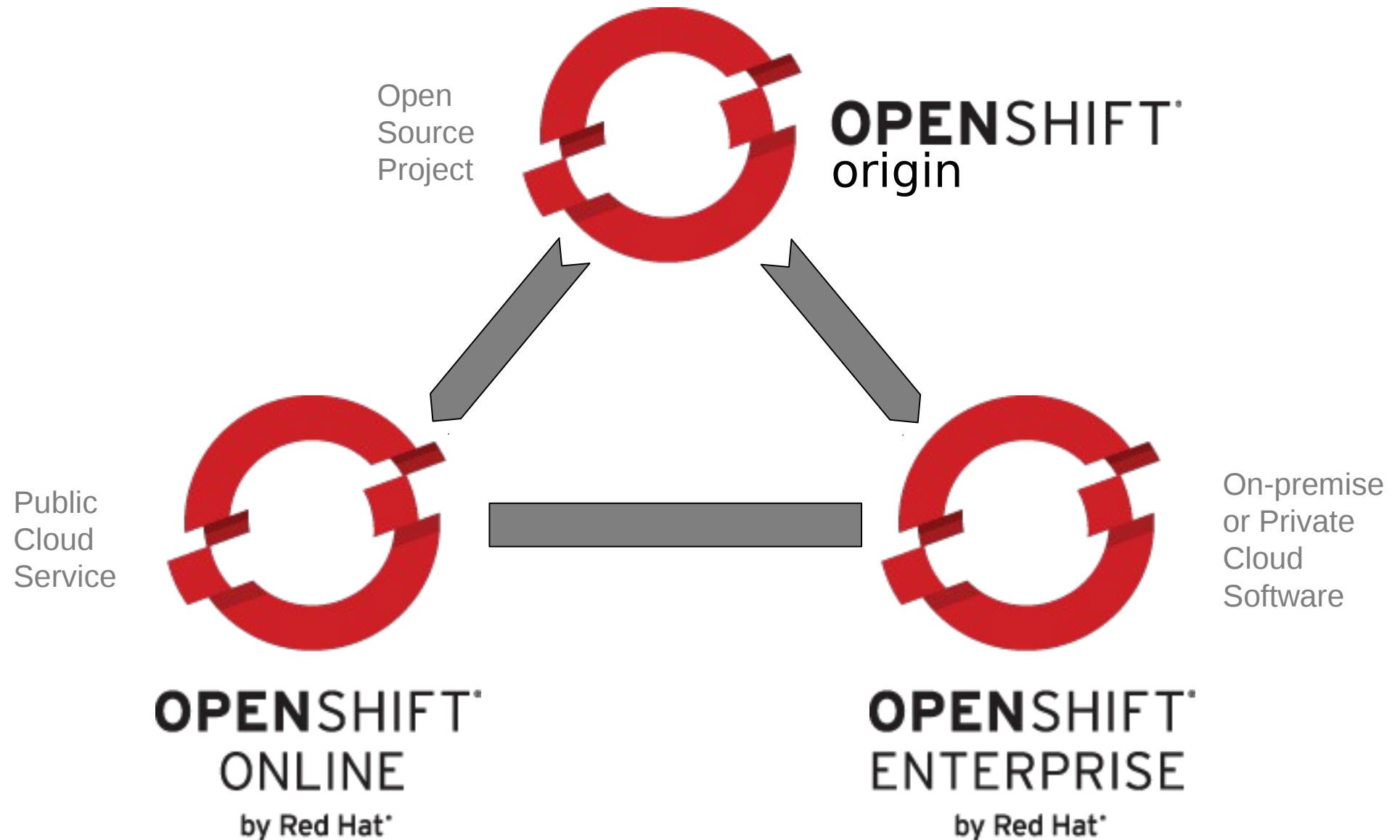
Increased Control

Increased Automation

OpenShift is PaaS by Red Hat



Red Hat's OpenShift PaaS Strategy



How Can I Consume OpenShift?

Public Cloud Service
(in Developer Preview)

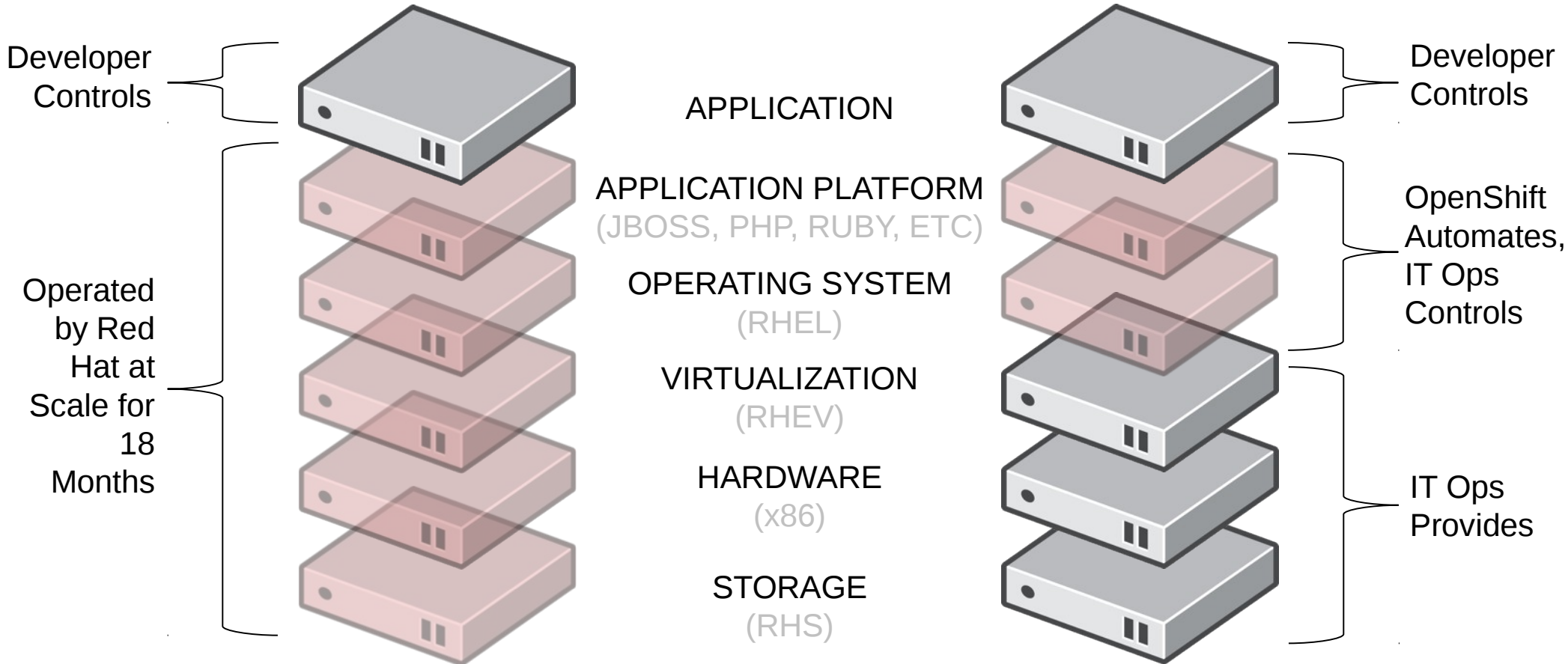


OPENSHIFT ONLINE

On-Premise or Private Cloud Software



OPENSHIFT ENTERPRISE





Let's Take a Look...

How OpenShift Works



OpenShift is a PaaS on top of... Infrastructure



AWS / CloudForms / OpenStack (IaaS) / RHEV (Virt) / Bare Metal

The Foundation of OpenShift is Red Hat Enterprise Linux



OpenShift is Built on Instances of Red Hat Enterprise Linux (RHEL)

RHEL

RHEL

RHEL

RHEL

AWS / CloudForms / OpenStack (IaaS) / RHEV (Virt) / Bare Metal

An OpenShift Broker Manages Multiple OpenShift Nodes



Nodes are where User Applications live.
Brokers keep OpenShift running.

RHEL

Brokers

RHEL

Node

RHEL

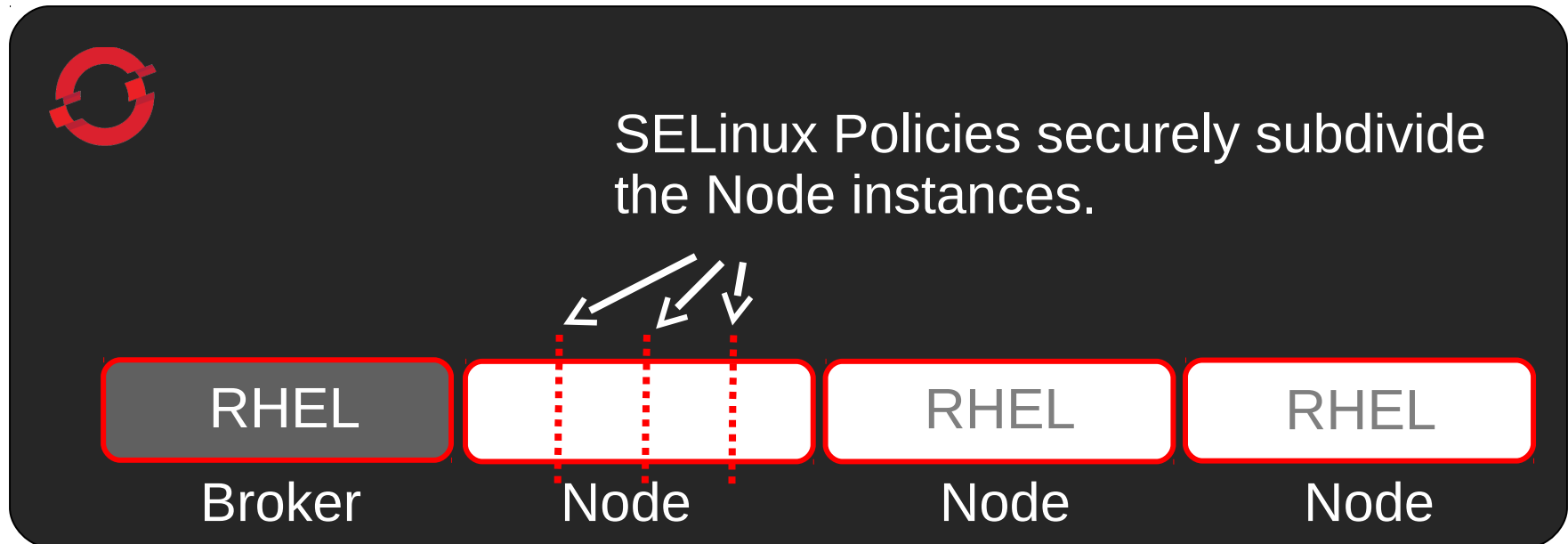
Node

RHEL

Node

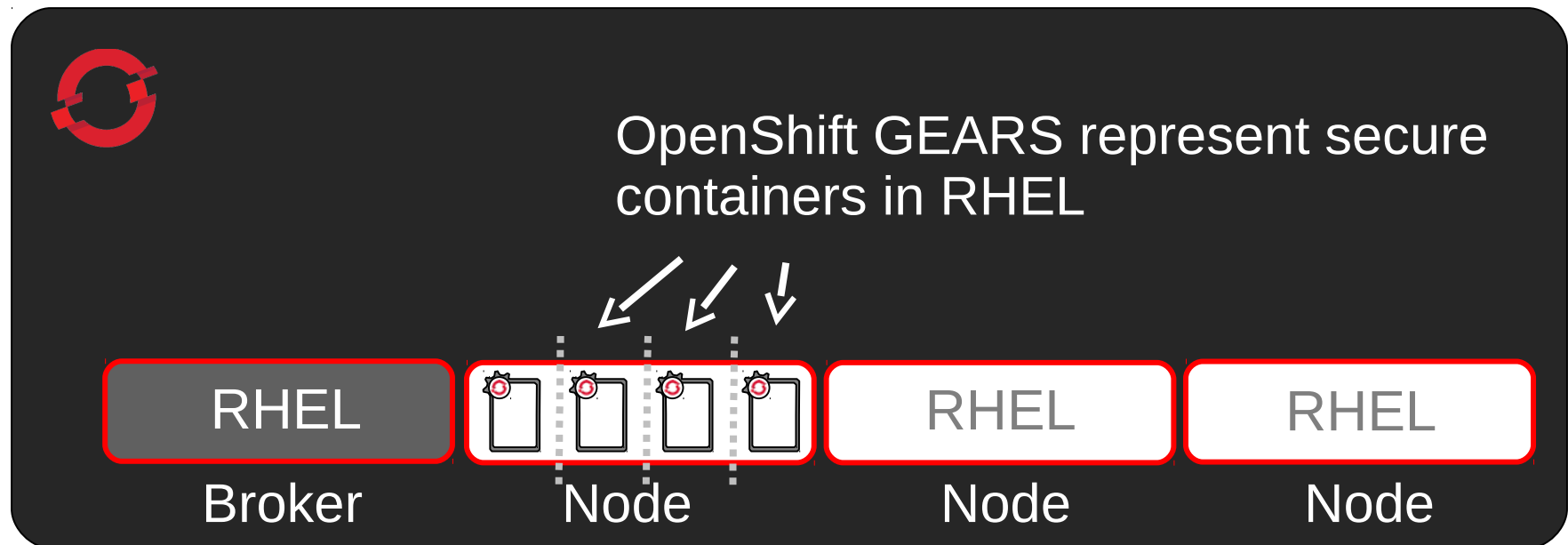
AWS / CloudForms / OpenStack (IaaS) / RHEV (Virt) / Bare Metal

Unique SELinux Approach Enables Security and Multi-tenancy



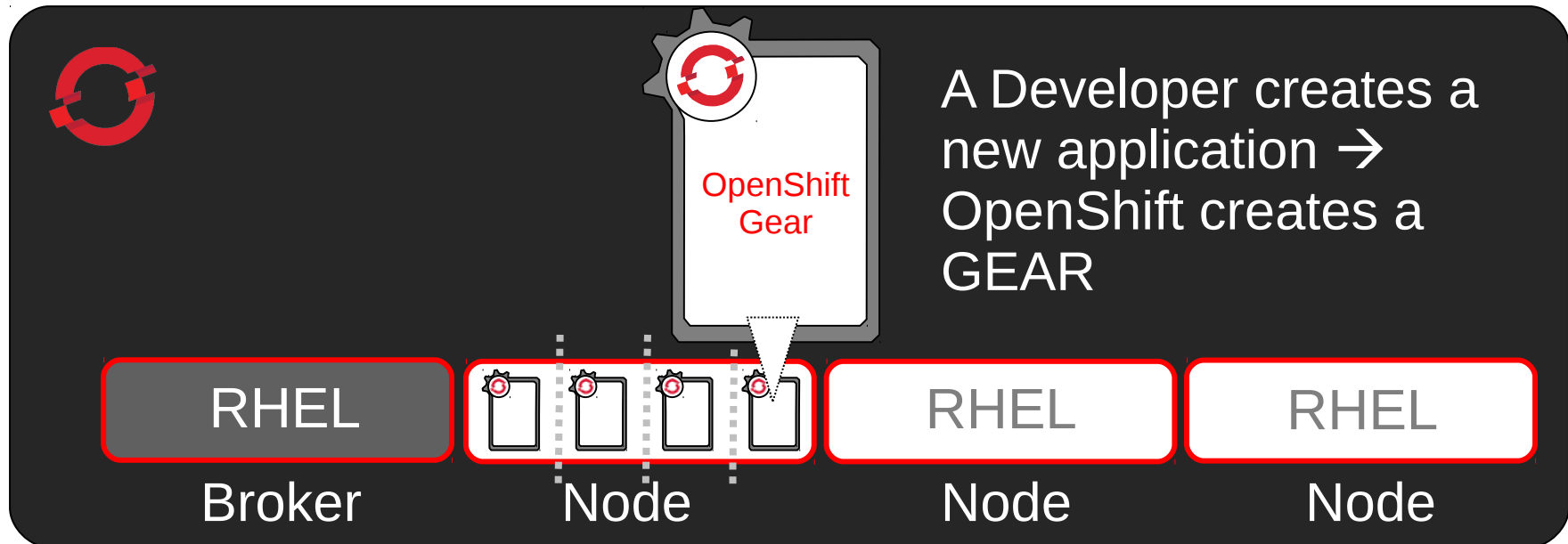
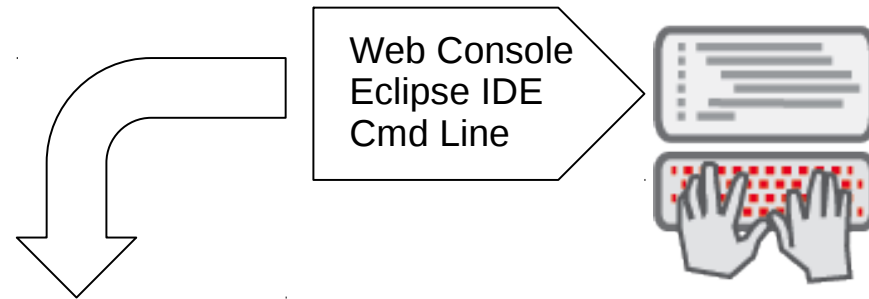
AWS / CloudForms / OpenStack (IaaS) / RHEV (Virt) / Bare Metal

OpenShift User Applications Run in OpenShift Gears



AWS / CloudForms / OpenStack (IaaS) / RHEV (Virt) / Bare Metal

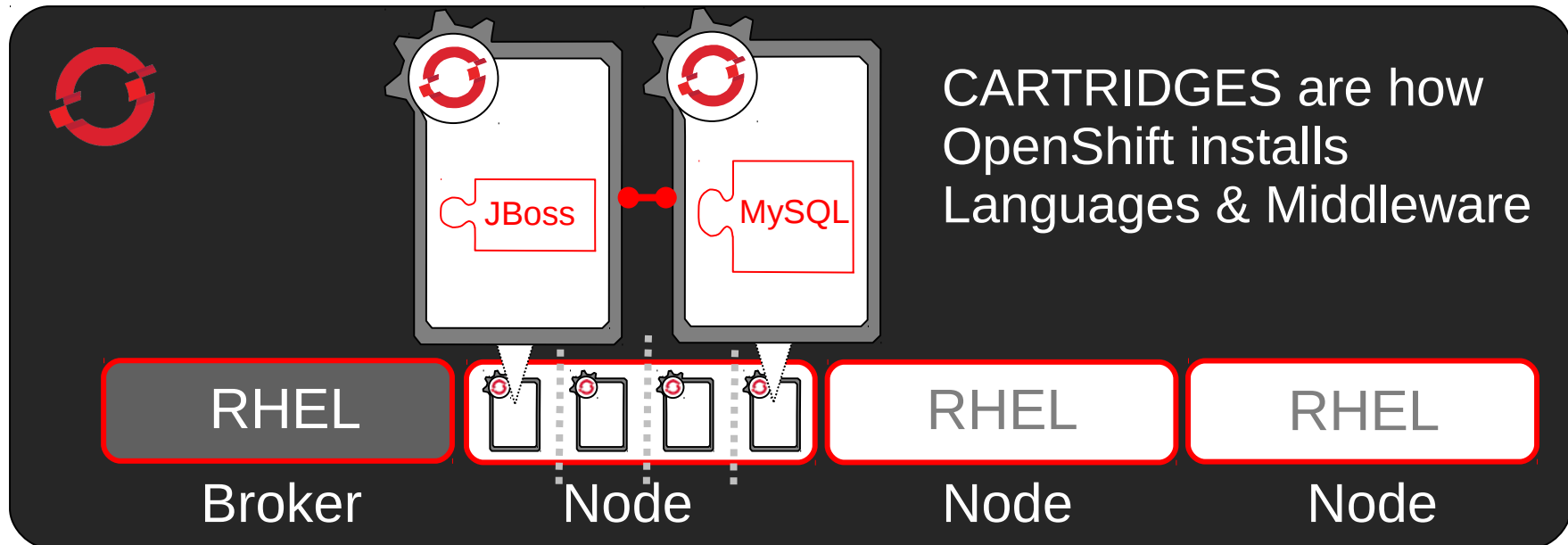
Developer Workflow



AWS / CloudForms / OpenStack (IaaS) / RHEV (Virt) / Bare Metal

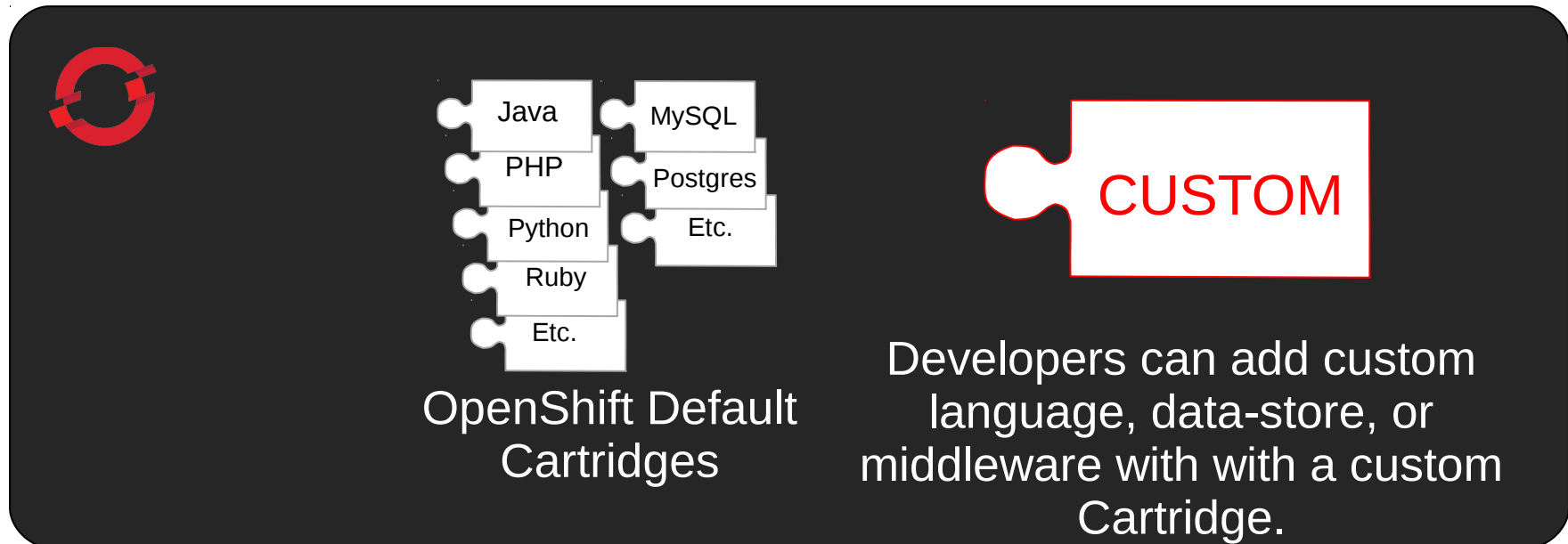
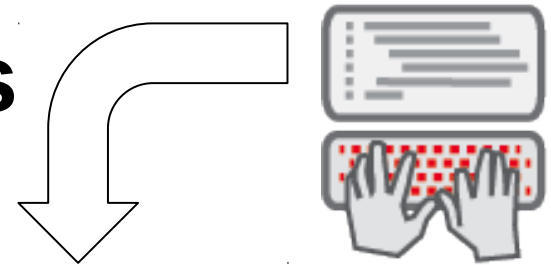
OpenShift Automates Gear Configuration via Cartridges

Web Console
Eclipse IDE
Cmd Line



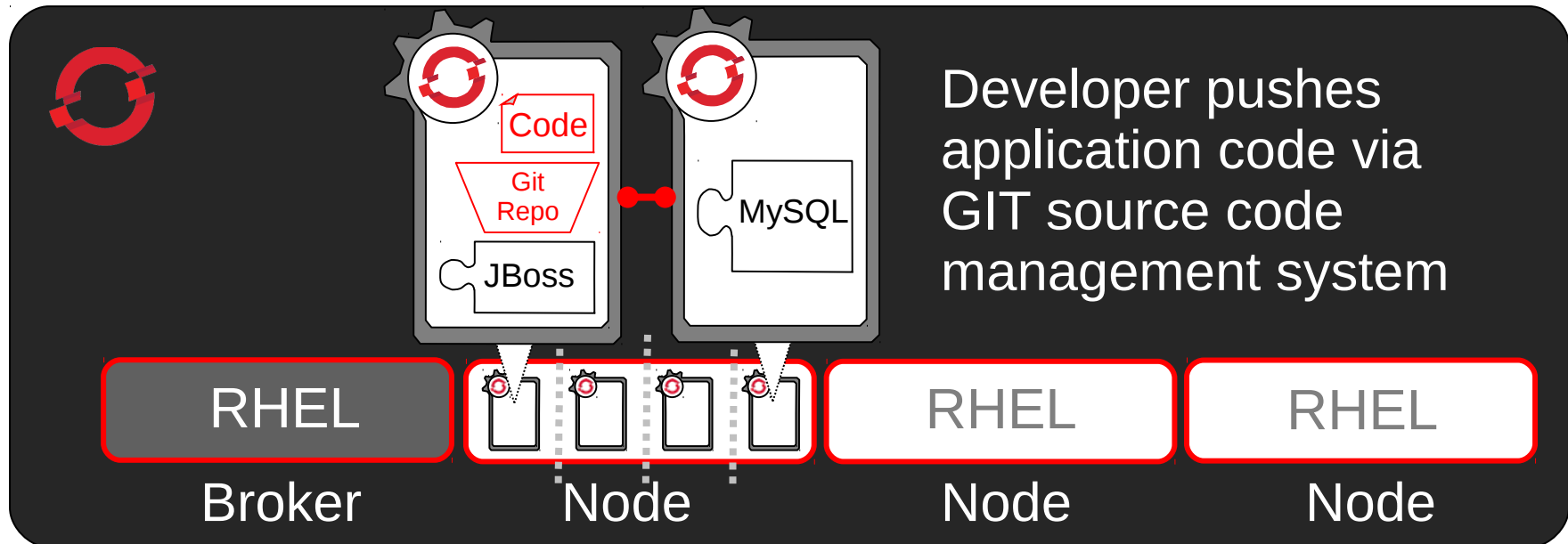
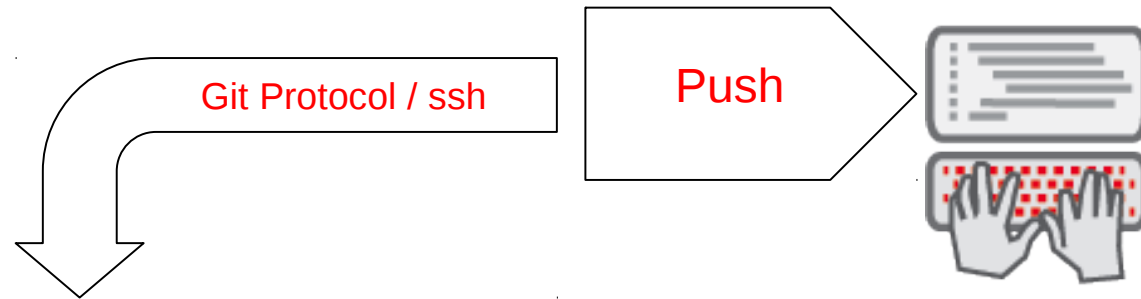
AWS / CloudForms / OpenStack (IaaS) / RHEV (Virt) / Bare Metal

OpenShift Cartridge System Enables User-Built Cartridges



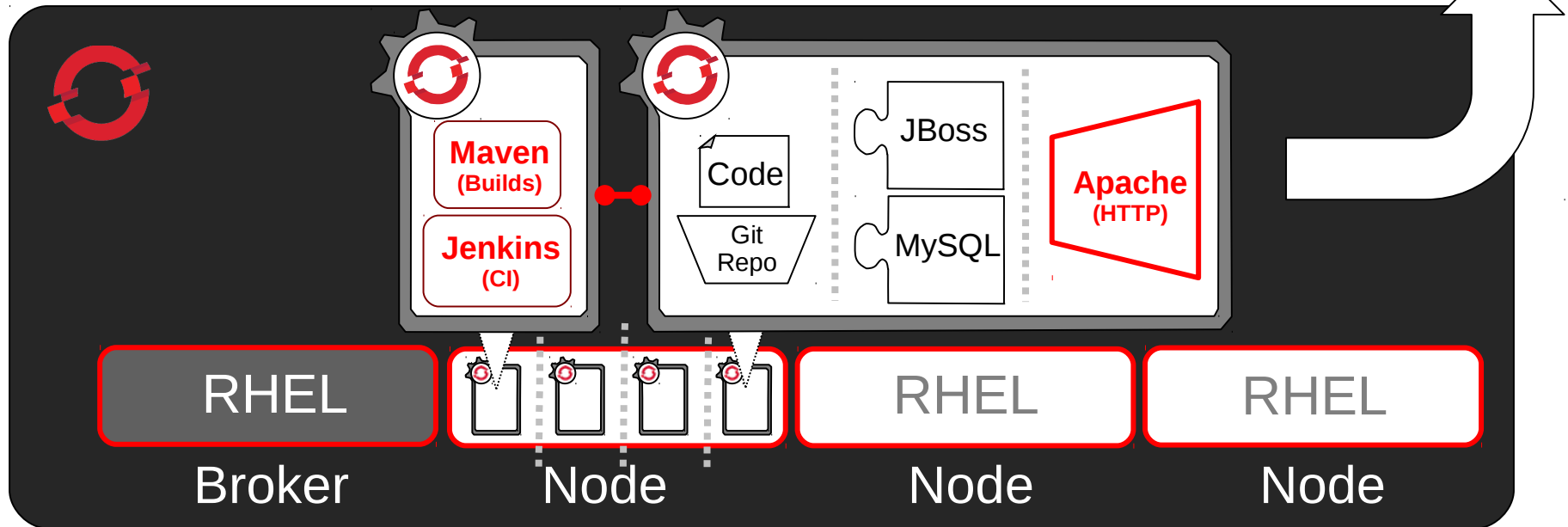
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Now, Code and Push



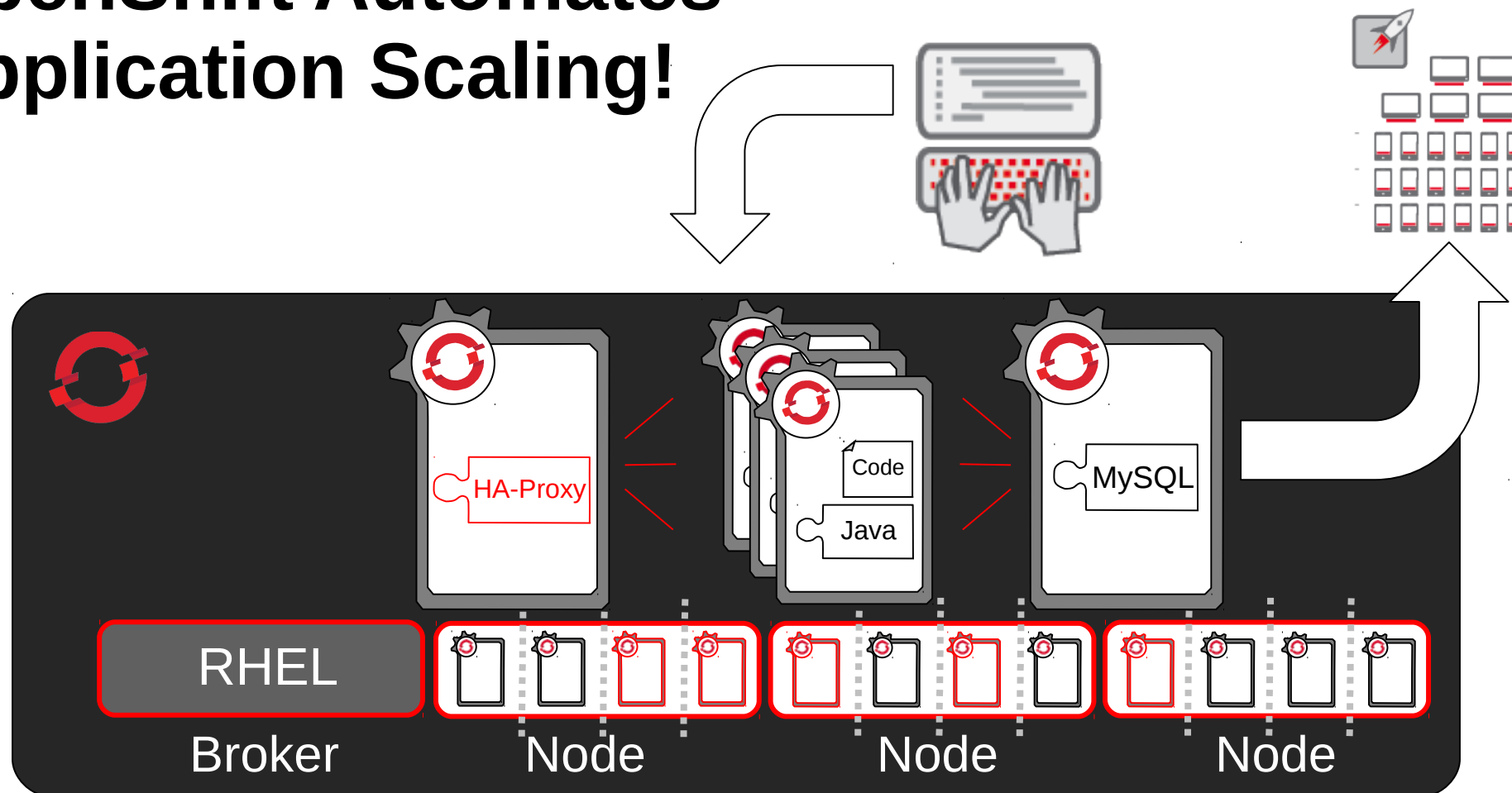
AWS / CloudForms / OpenStack (IaaS) / RHEV (Virt) / Bare Metal

OpenShift Automates Build, Test, Publish



AWS / CloudForms / OpenStack (IaaS) / RHEV (Virt) / Bare Metal

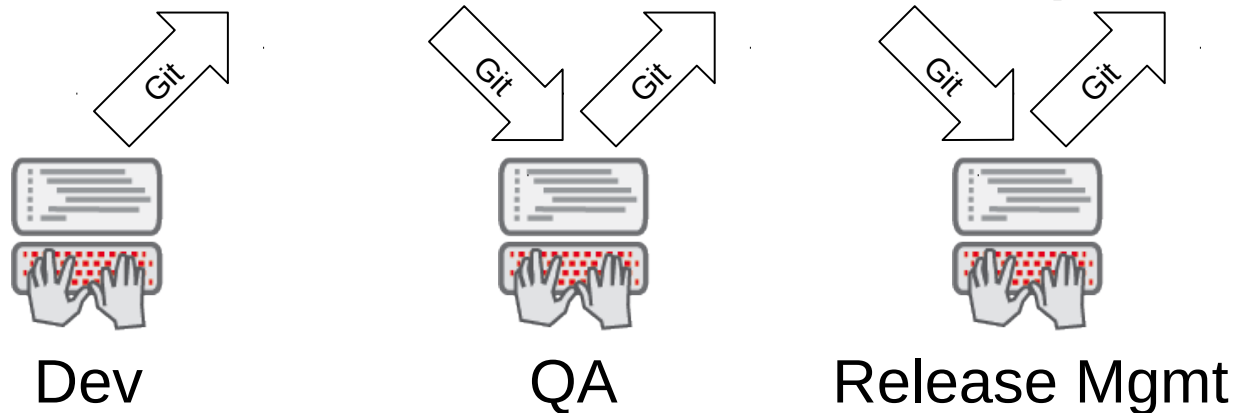
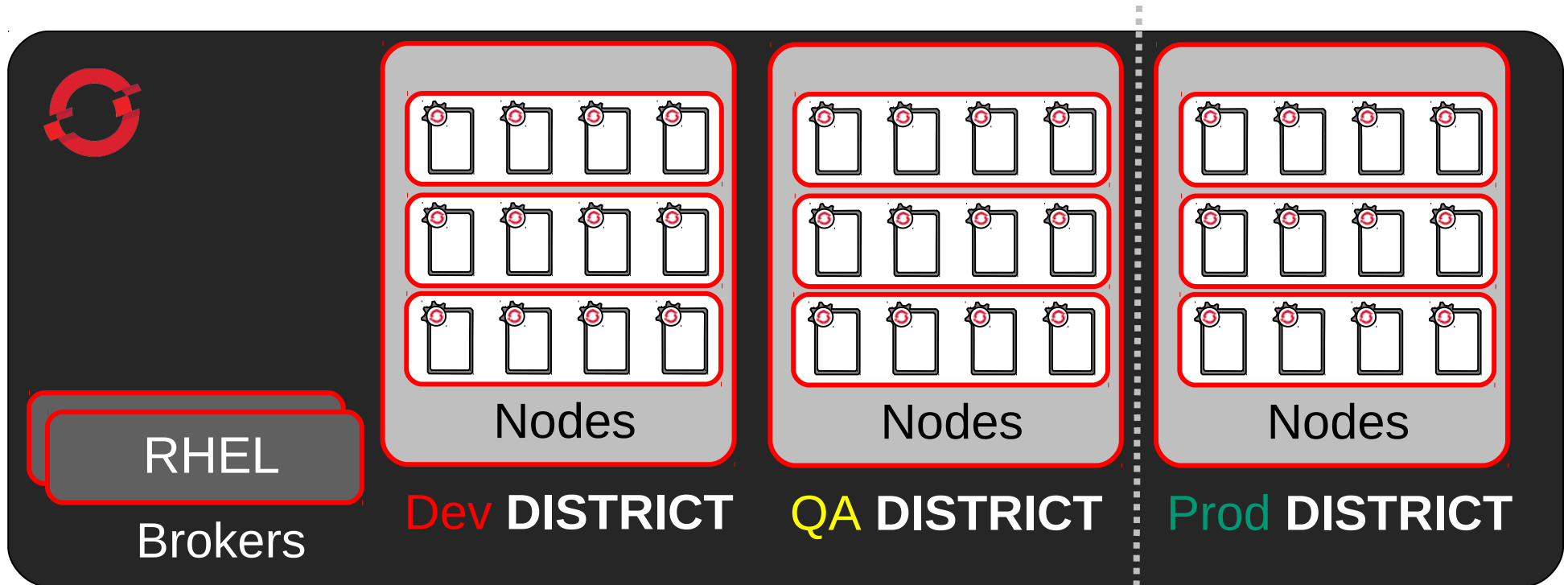
OpenShift Automates Application Scaling!



AWS / CloudForms / OpenStack (IaaS) / RHEV (Virt) / Bare Metal

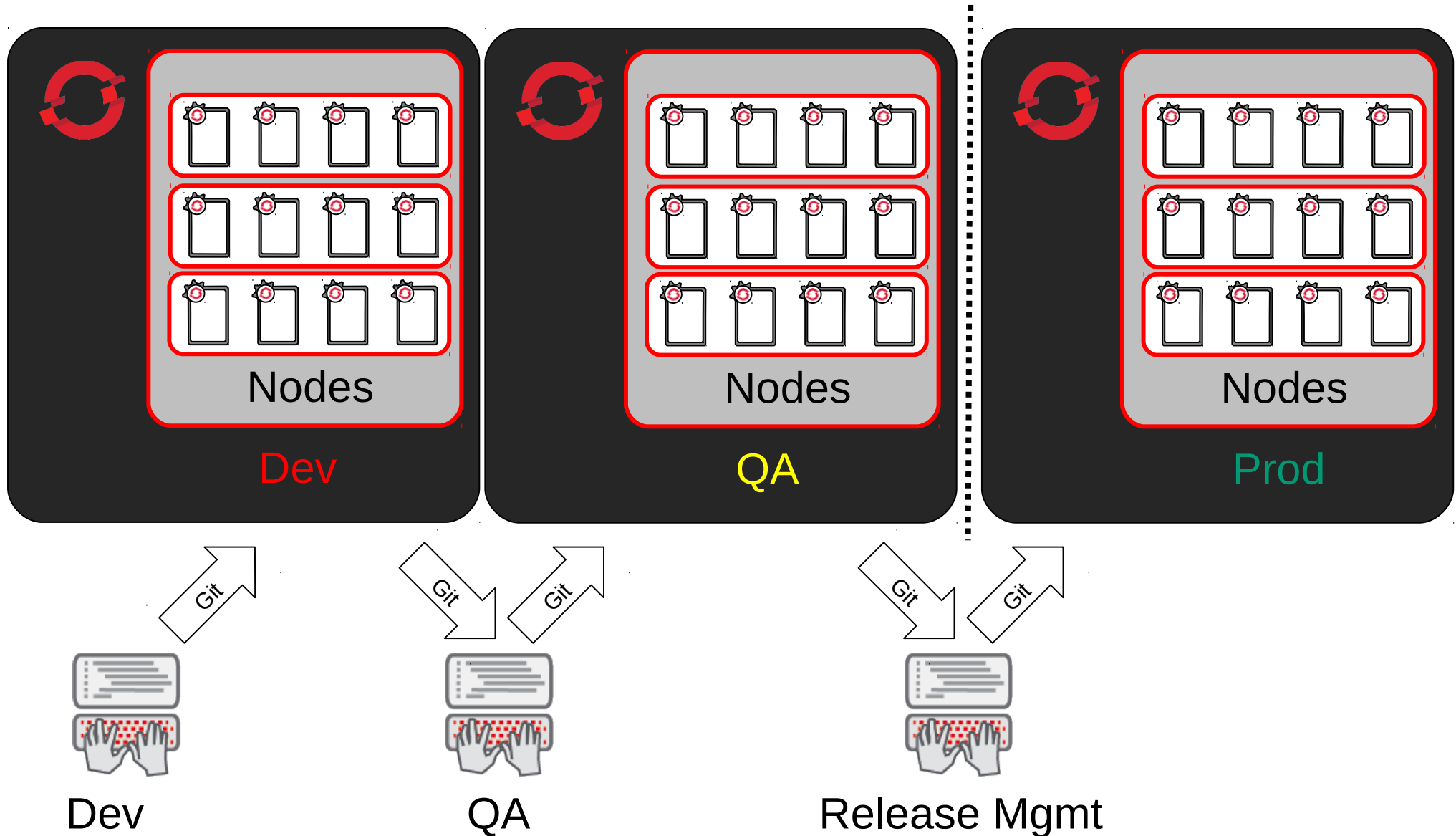
Real-world App Dev

- Multi Environments, Single PaaS

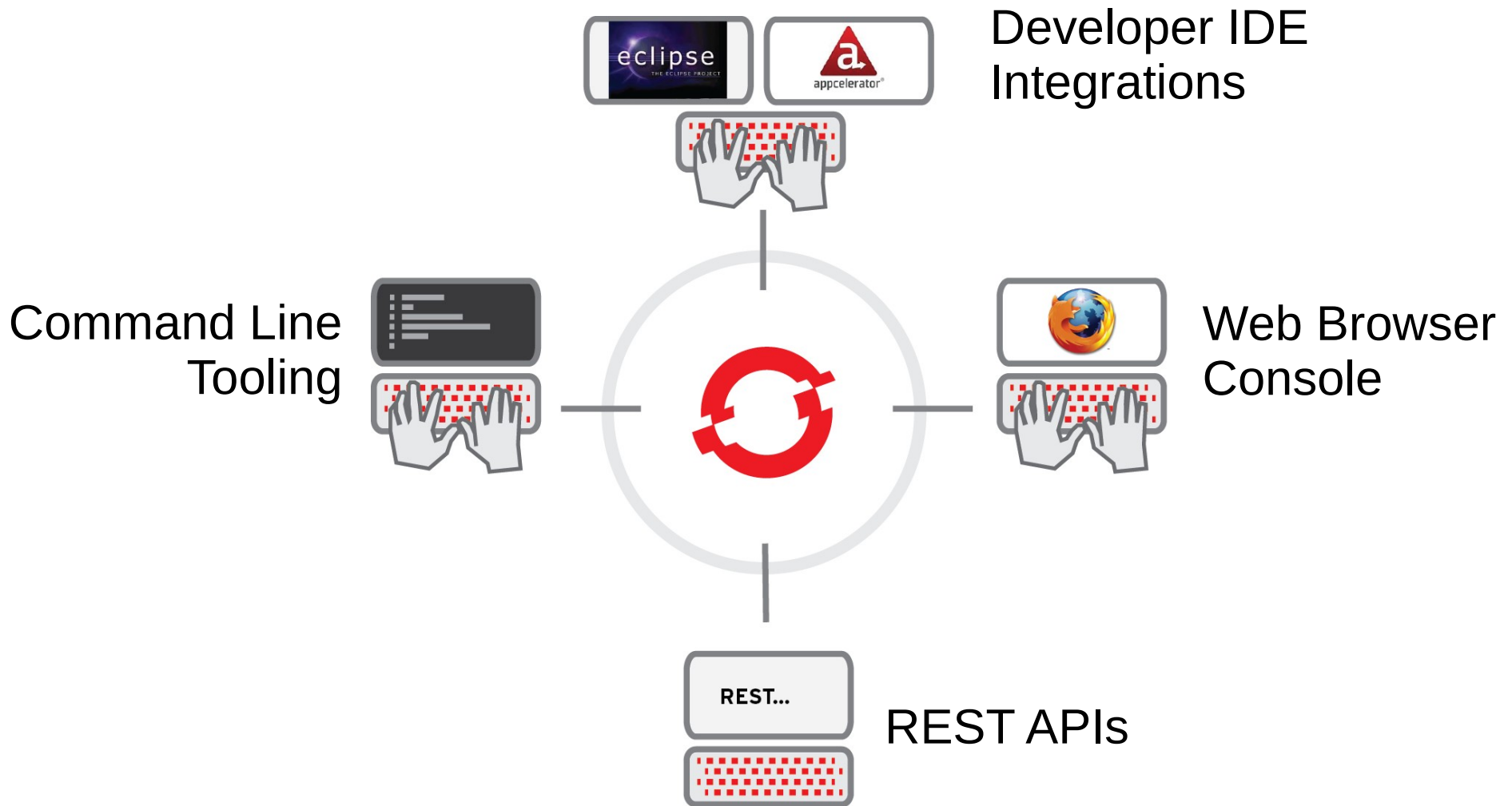


Real-world App Dev

- Multi Environments, multiple PaaSes



Developers Choose How To Work with OpenShift



Are You a Command-Line Fan?

OpenShift's RHC CLI Tools

1. Create App

```
rhc app create -a javasample -t jbossas-7
```

2. Add MongoDB

```
rhc app cartridge add -a javasample -c mongodb-2.0
```

3. Add add EAR file to your deployments directory

```
cd javasample
```

```
cp /path/to/ear/earfilename.ear ./deployments
```

1. Add the EAR file to git

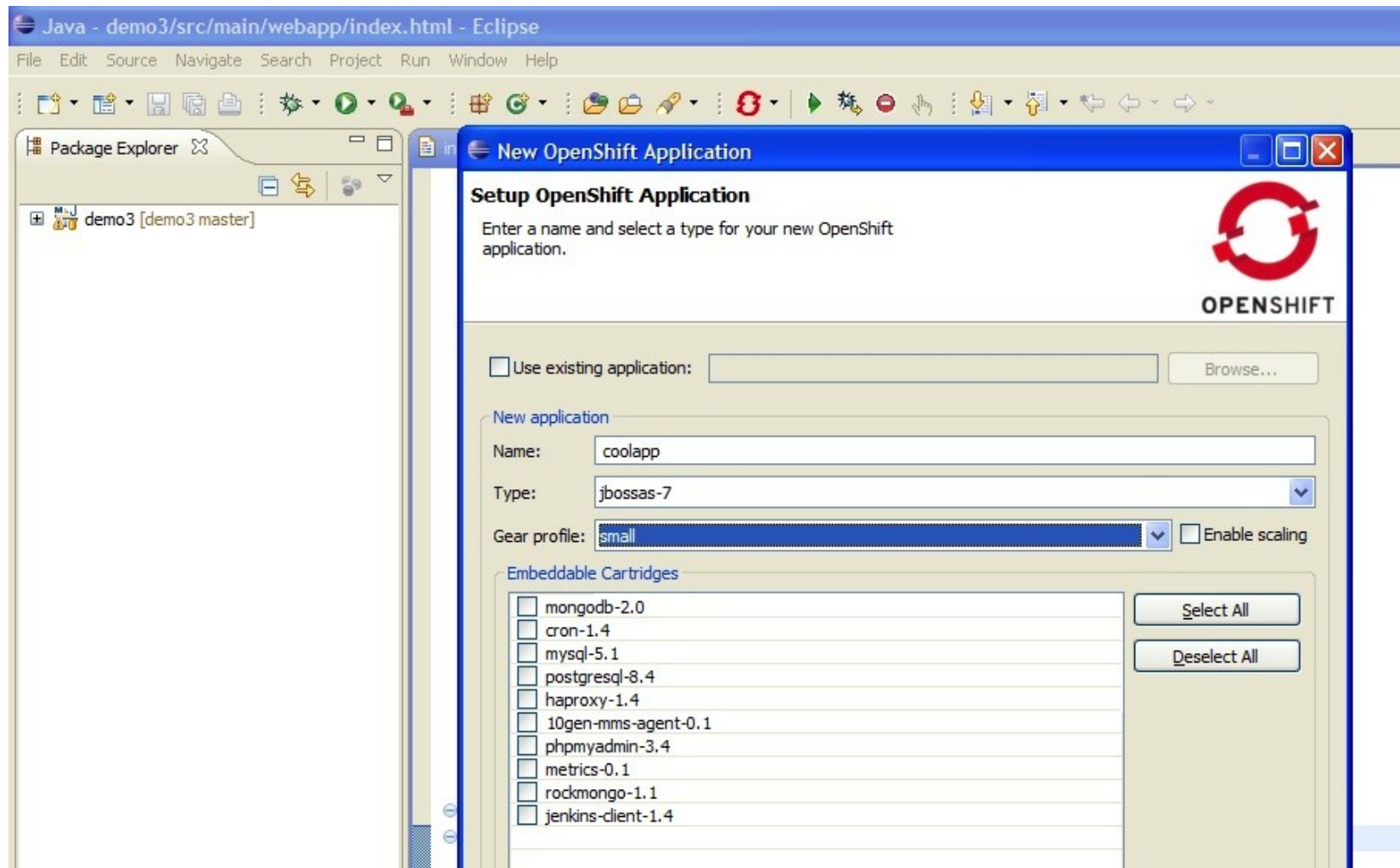
```
git add ./deployments/earfilename.ear
```

2. Push your code

```
git push
```

3. Done

And, of Course, a Powerful JBoss Dev Studio IDE Integration



Developers Choose Languages, Frameworks and Middleware

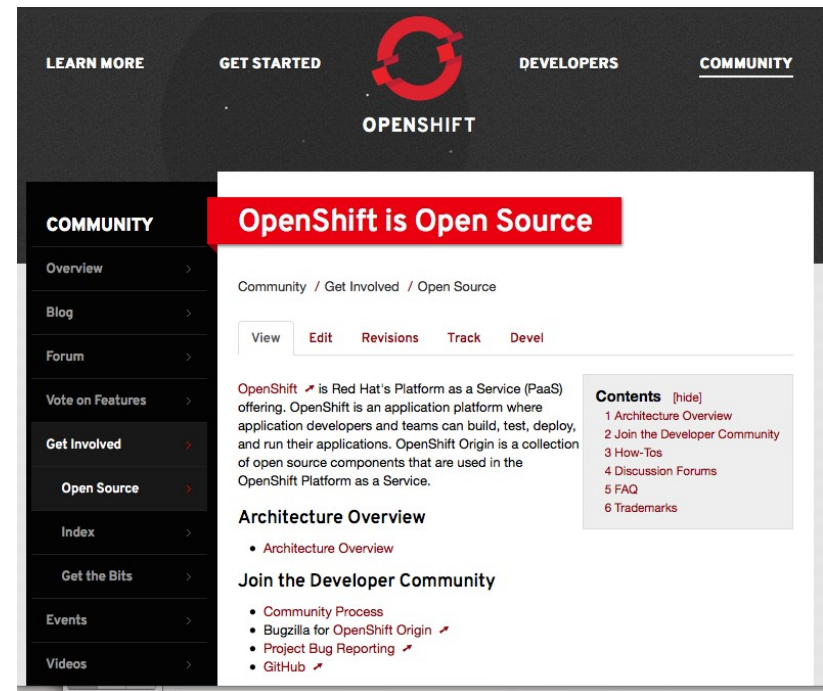


OpenShift Origin

<https://openshift.redhat.com/community/open-source>
<https://github.com/openshift>
<https://github.com/openshift/origin-server/cartridges>

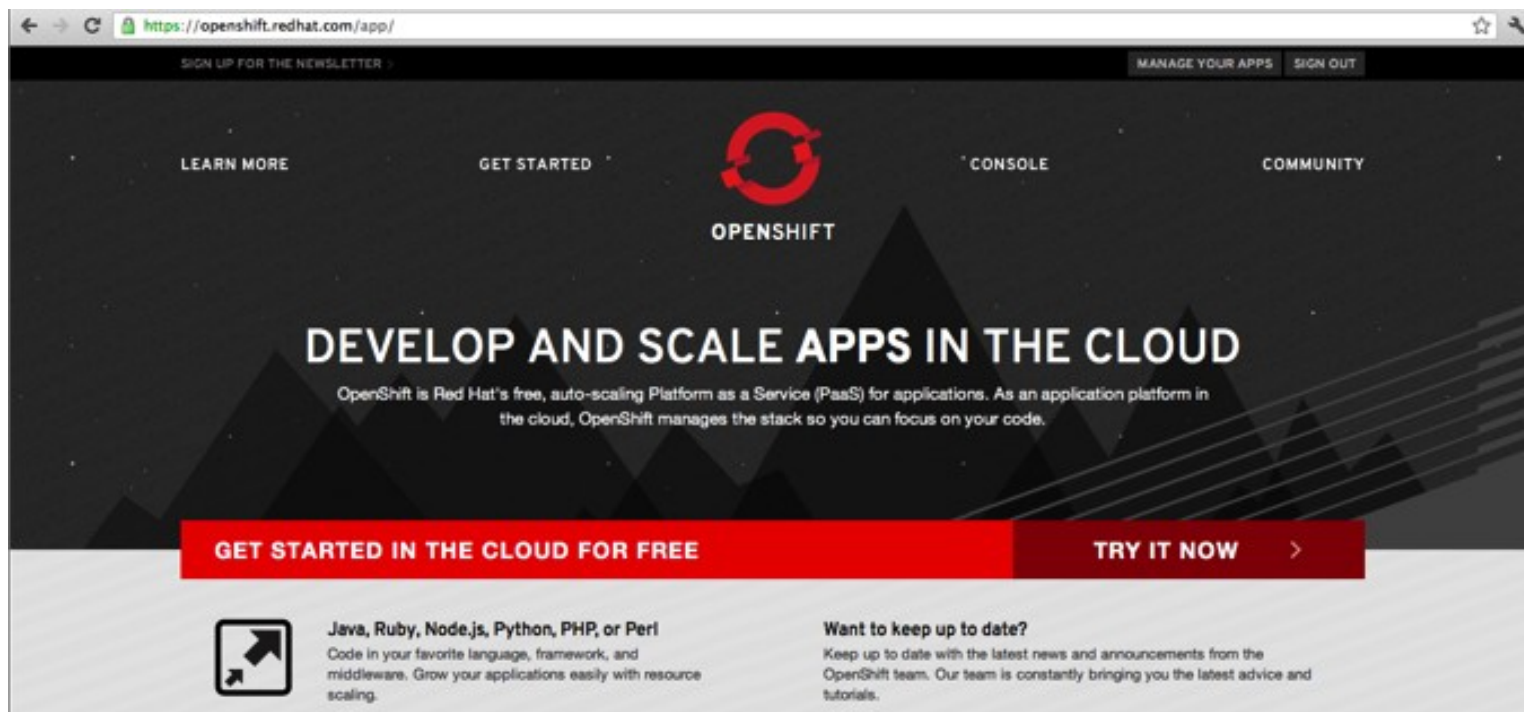
The upstream project for the OpenShift PaaS platform

- Apache 2.0 License
- Available as:
 - Source, RPMs
 - .ISO, LiveCD (run your own)
- IRC, email, forums



Get Started Today for Free!

- Deploy Apps to the [OpenShift OnLine Developer Preview](#)
- Request an Evaluation of [OpenShift Enterprise](#)
- Join the [OpenShift Origin](#) Open Source Project community



<http://openshift.redhat.com>



Thank You.
Questions?

O P E N S H I F T