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Red Hat's Business Systems

Enterprise Systems Built on Open Source

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Agenda

- Overview of IT Business Systems at Red Hat
- Open Source Applications
- RHEV at Red Hat
- JBoss deployment
- Build and Config Management
- Role / Integration of SaaS offerings
- The Internal Stack
- Discussion: 'Real' Benefits, Dialog and Q&A

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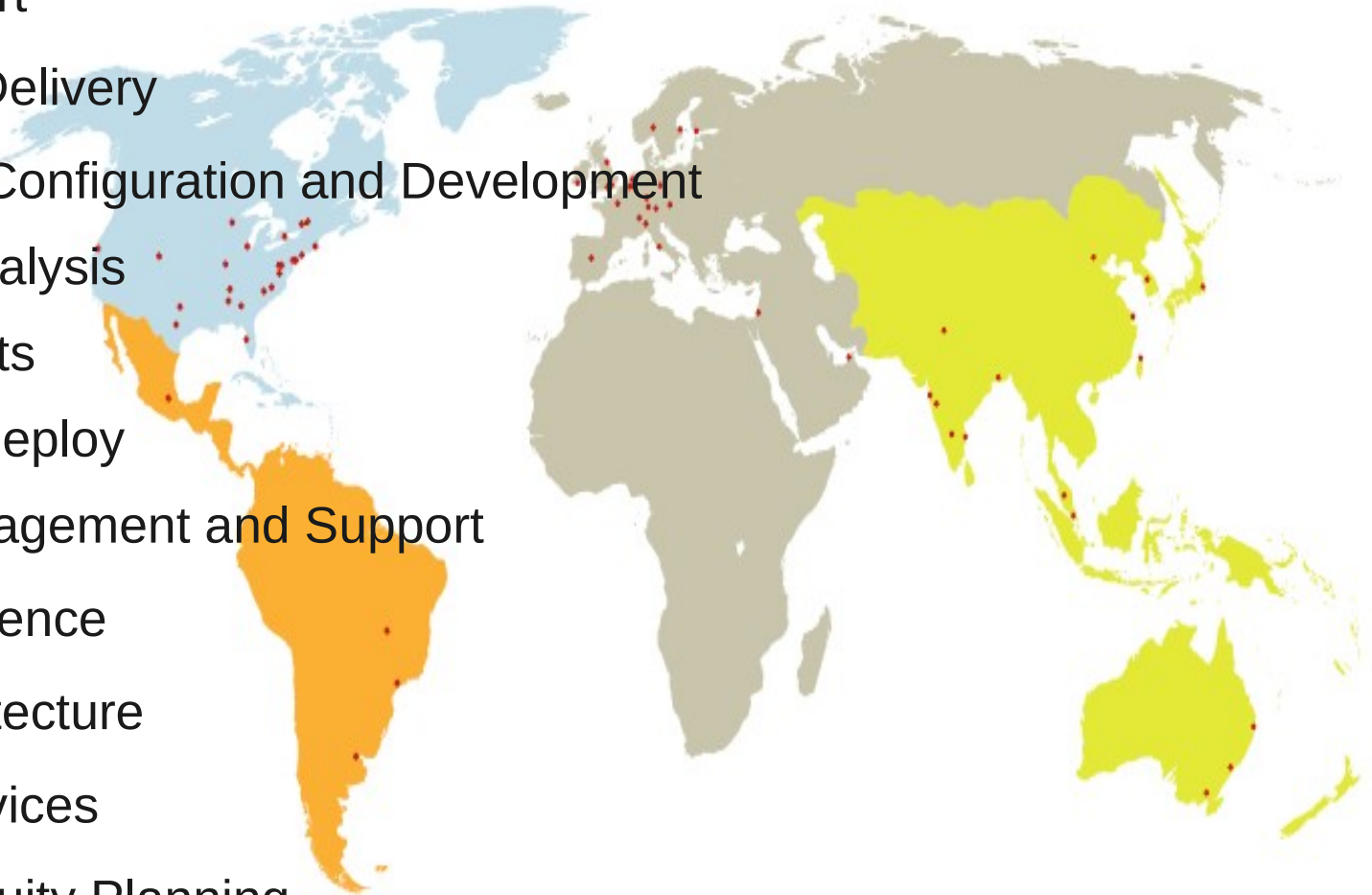
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Red Hat IT Business Systems – What we do

- Business Support
- IT Applications Delivery
 - Application Configuration and Development
 - Business Analysis
 - Requirements
 - QA / Test / Deploy
- Application Management and Support
- Business Intelligence
- Enterprise Architecture
- Middleware Services
- Business Continuity Planning



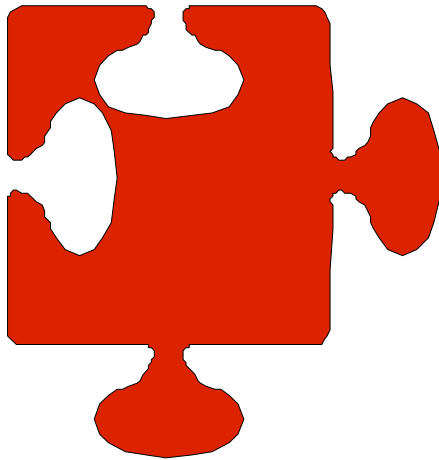
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Open Source Applications at Red Hat



- Open Source is just one piece of the puzzle
 - OS – RHEL
 - Virt – RHEV
 - Middleware – JBoss
 - Mgmt – Mixed
 - Apps – Varied
- The further up the stack the more heterogeneous the environment becomes

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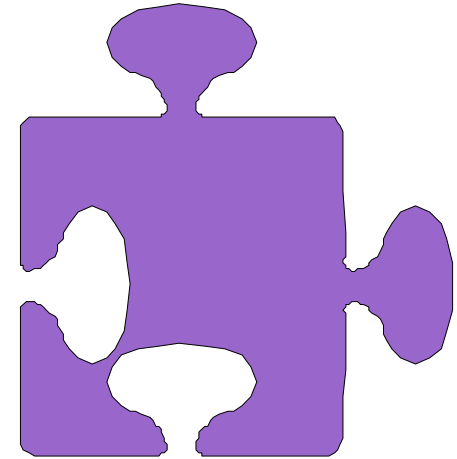
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RHEV at Red Hat

- Internal and External MX servers (~14 VMs in Prod)
- ~60 Plus VMs in Stage / Pre Prod environments
 - Mostly Dev servers
- Working on plans for RHEV 2.2 release for later this summer



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JBoss Deployment

- Four external JBoss Clusters
- Serves ~1.2 Million Requests per day
- ~80 Web Applications
- Content for www.redhat.com, support.redhat.com, etc
- Runs API Backend for rhn.redhat.com
- No maintenance outage for cluster maintenance for two years
- Average response time across all clusters is below 150ms

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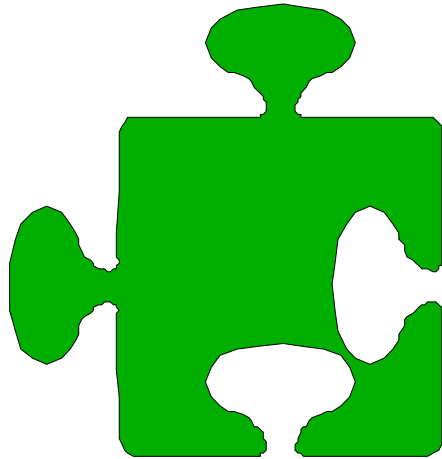


Build and Config Management

- Common config management platform(Puppet) enabling all environments to share config information
 - System configs are also managed with Puppet – side effect of supporting DR through rapid, automated, machine reproduction
- Continuous integration strategy, leveraging a set of open source tools to completely automate the build process – compiling, testing and deploying
 - Hudson – build process orchestration
 - Maven – build multi-tool to get code into RPMs
 - Func: orchestrates code deployment



Role of SaaS Offerings



- Yet another piece of the puzzle – a challenging one
- Challenges
 - Integration
 - Security
 - Identity
 - Scope Control
 - Service Levels
 - The 'Business'...

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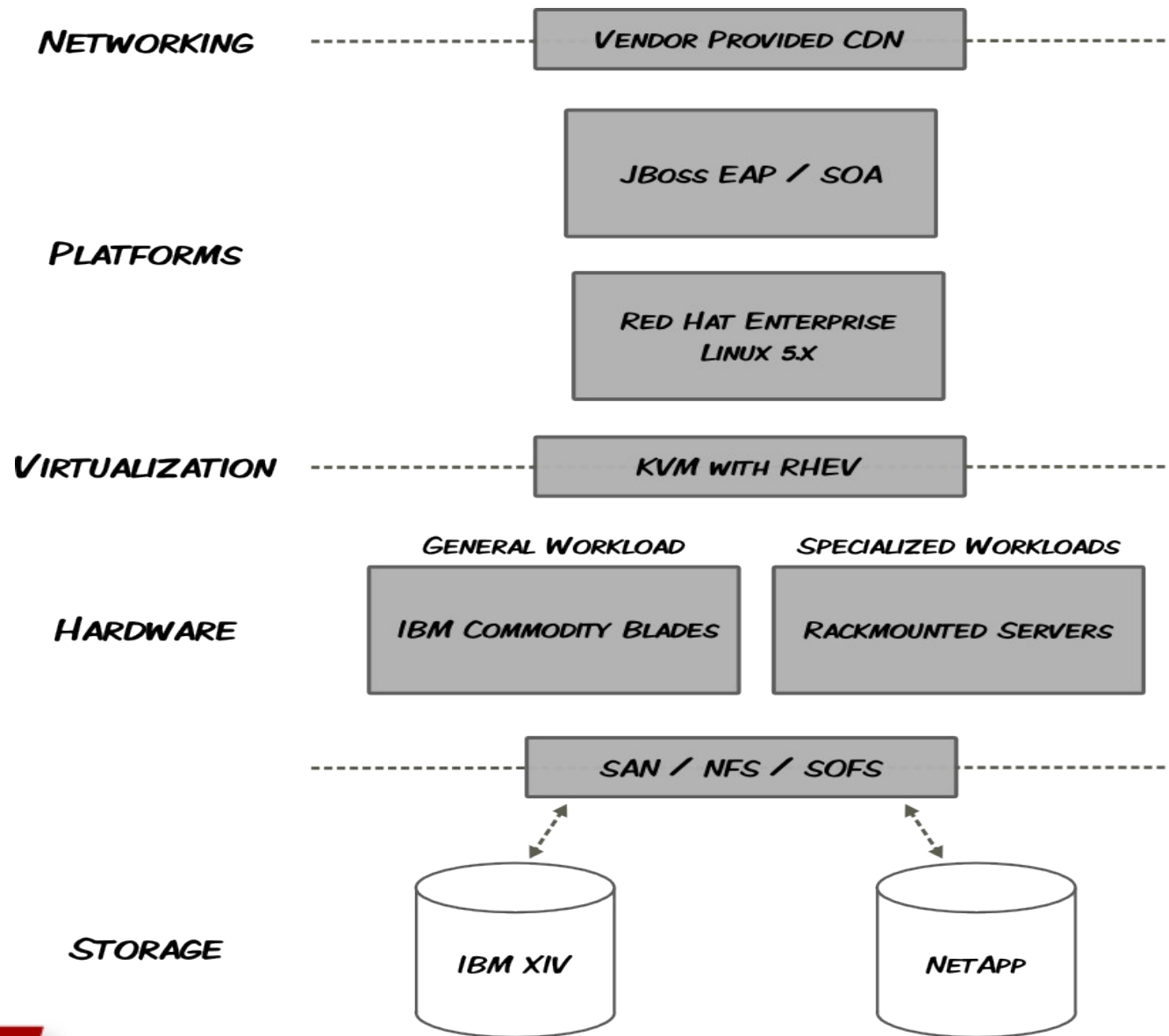
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The Stack

Flexible
Rapid Deployment
Scalable
Resilient



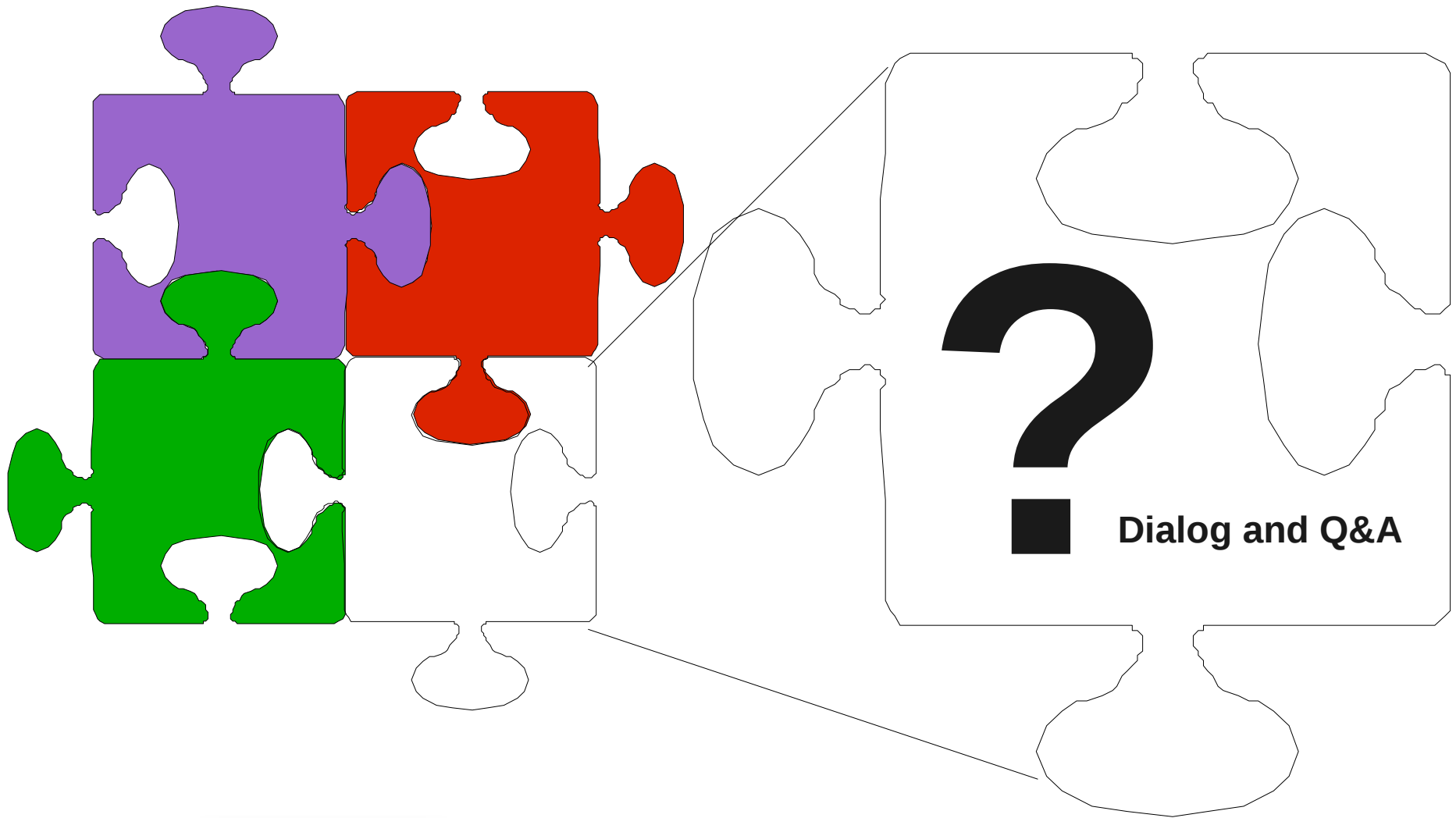
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Discussion: 'Real' Benefits, Dialog and Q&A



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