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OpenShift Roadmap

OpenShift Container Platform 3.2

- Kubernetes 1.2 & Docker 1.9
- Red Hat Mobile Hybrid on OpenShift
- JBoss EAP 7, BPM, SSO on OpenShift
- Updated image versions for Node.js, MongoDB, Ruby, Python, Postgres
- Build automation for binary deploys
- Jenkins CI integration with Builds/S2I
- Scale & usability enhancements

OpenShift Online & Dedicated

OpenShift Online 3 Developer Preview

OpenShift Container Platform 3.4

- Kubernetes 1.4 & Docker 1.1x
- Usability enhancements & first-time user flows
- Idling based on network metrics
- Build enhancements (performance, integrations)
- Advanced audit logging
- CNI integration for openshift-sdn
- Dynamic Storage provisioning for AWS, GCE, Cinder, GlusterFS. Azure Storage & Storage QoS tiers
- Integration to external logging systems (Splunk)

OpenShift Online & Dedicated

- OpenShift Online General Availability
- OpenShift Dedicated on Google

Q3 CY2016

1H CY2016

OpenShift Container Platform 3.3

• Kubernetes 1.3 & Docker 1.10

Q4 CY2016

OpenShift Container Platform 3.5

• Kubernetes 1.5 & Docker 1.1x

- Continuous Deployment Pipelines based on Jenkins Pipelines (Tech Preview)
- Enterprise Registry enhancements
- Web Console navigation & usability
- Add to Project from Docker image or template via Web Console
- A/B deployment routing configuration
- Scale certified to 1.000 Node clusters

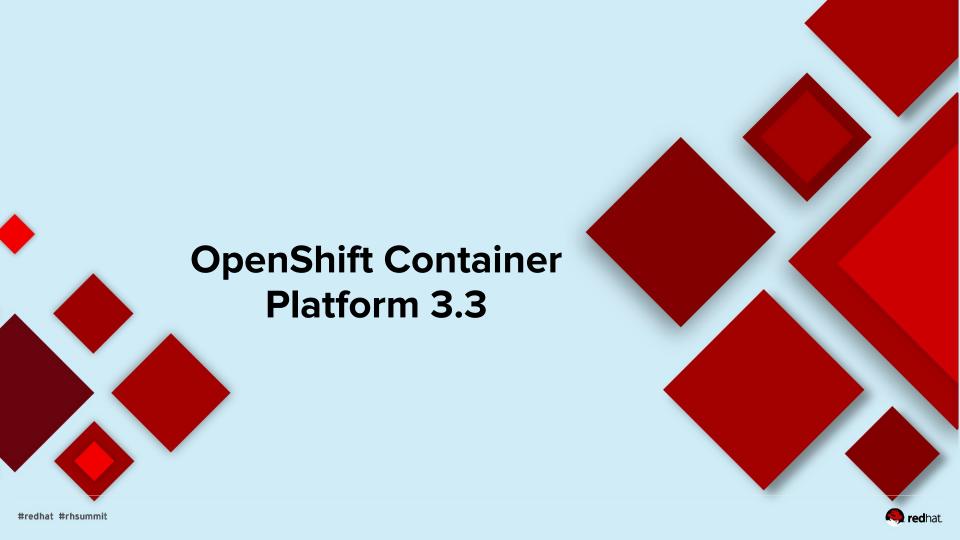
OpenShift Online & Dedicated

 OpenShift Online Developer Preview user expansion and updates

- Kubernetes PetSets for stateful services
- Autoscaling based on custom metrics
- Service Broker/Catalog
- CD Pipeline enhancements
- Ubernetes cluster federation
- Kubernetes Ingress Router integration
- Default networking alternatives (R&D)
- User Namespaces (RHEL 7.3.2)
- Image signing & scanning integrations
- SELinux + OverlayFS support

OpenShift Online & Dedicated

OpenShift Dedicated on Azure



OCP 3.3

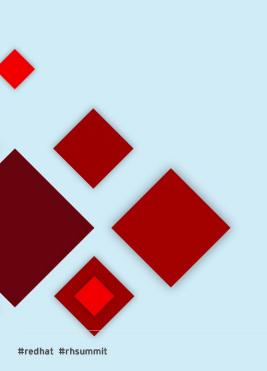
Targeting the Week of Sept 26

- OpenShift Container Platform 3.3 Feature Highlights
 - Kubernetes 1.3 & Docker 1.10
 - Enterprise Registry enhancements
 - Web Console navigation & usability
 - Add to Project from Docker image or template via Web Console
 - A/B deployment routing configuration
 - Scale certified to 1,000 Node clusters
 - Continuous Deployment Pipelines based on Jenkins Pipelines (Tech Preview - see next slide)
 - OpenShift Enterprise rebranded to OpenShift Container Platform in both products and documentation!

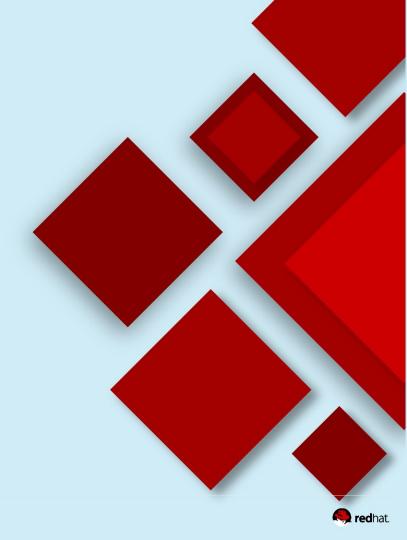
OCP 3.3

Targeting the Week of Sept 26

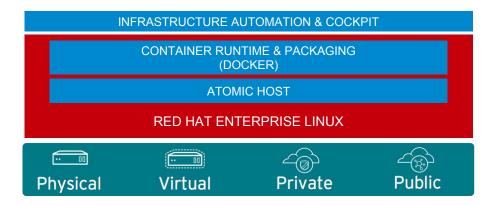
- Features Dropped from OCP 3.3 Release or Moved to Tech Preview
 - Dynamic Provisioning for Storage Persistent Volumes
 - Continuous Deployment Pipelines (Tech Preview)
 - Install automation of Logging/EFK stack (coming in 3.3.1)
 - Extended Builds (Tech Preview)
 - Storage QoS Classes (Storage Labels made it)
 - Idling/Unidling Auto-trigger based on HTTP (Idling/Unidling made it)
 - Service Linking (moved to oc env)
 - PetSet (stayed in alpha)
 - Rolling updates of etcd



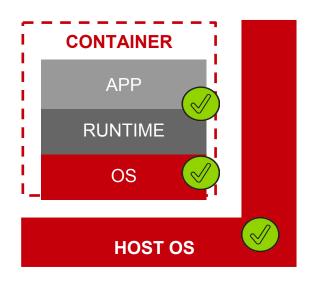
Containers



RHEL - Trusted Container OS



Container Runtime - Standards & Security



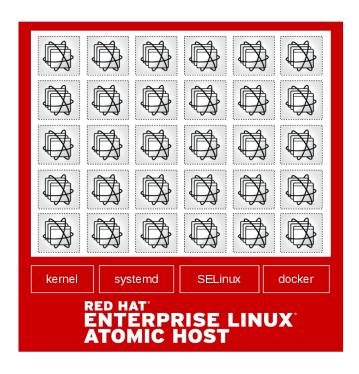


- Docker release updates & maintenance
- Standardization through OCI
- Multi-process containers with systemd

New in RHEL 7.3:

- Image scanning with Atomic Scan + OpenScap.
- Container image signing
- System Containers

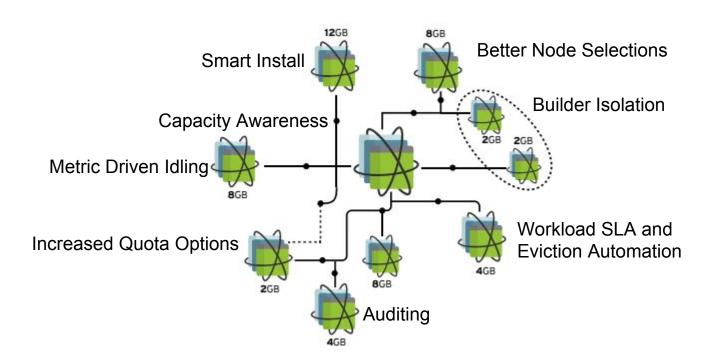
Container Host - Lightweight & Container-Optimized



- RHEL Atomic Host optimized for containers, minimal footprint & streamlined updates.
- Enhanced management with Cockpit for RHEL & RHEL Atomic Host
 - Docker storage
- SELinux support with OverlayFS (7.3.2)
- Package layering (Tech Preview)
- Containerized install of Kubernetes
- RHEL base image size optimization

Platform Intelligence

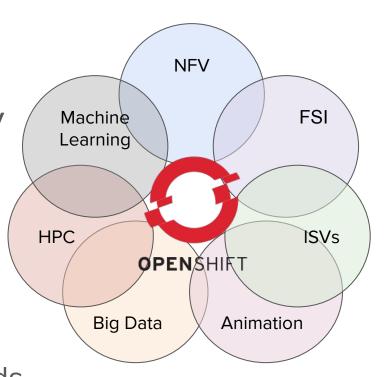
- Solving longer uptime issues
- Cluster Self Management



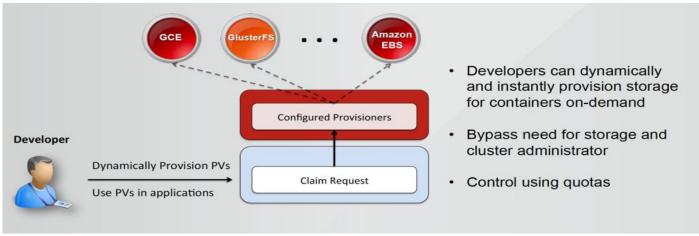
High Performance Pod Spec R&D project

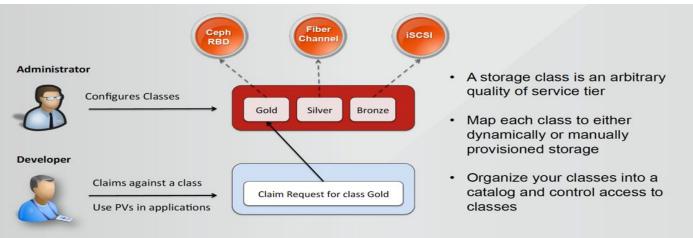
OpenShift becomes the single platform to run any application:

- Old or new
- Monolithic or Microservice
- Enhanced orchestration in Kubernetes for new workloads

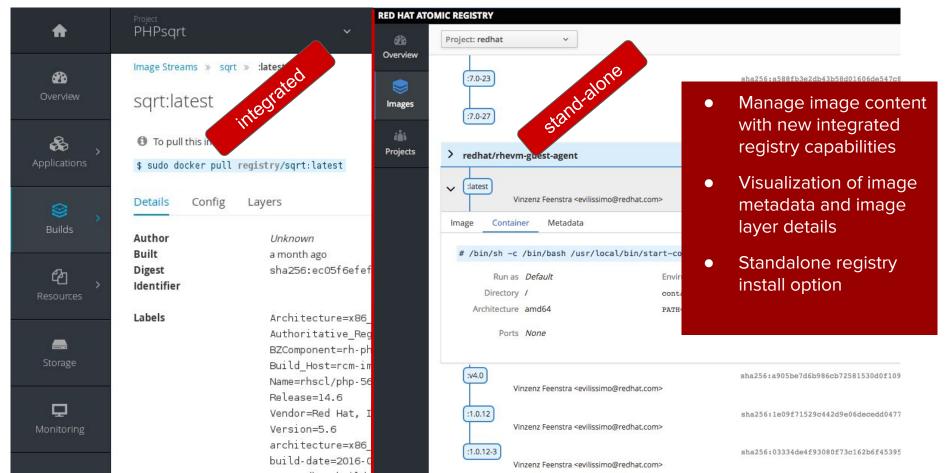


Dynamic Storage with Class ACLs





Enterprise Registry Enhancements



Networking Focus

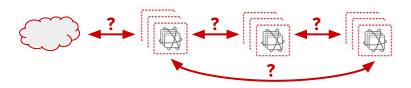
Continued vendor integrations



Container Network Interface (CNI)



Network Policy

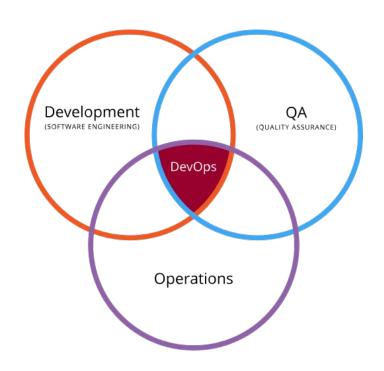


- Allow for "human readable" naming
 app-example.rhcloud.com vs 172.30.26.207
- Neutron connectivity via Kuryr
- More planned:
 - Ingress router
 - Mgmt/Cluster traffic segregation
 - Multicast
 - Tenant-driver project isolation
 - Upstream QoS

CloudForms 4.2 Dev Cycle

ManagedIQ Deliverable First

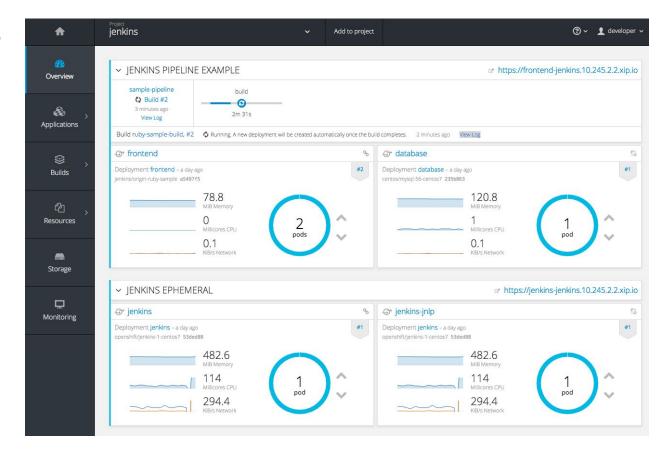
- Focused as something that runs on OpenShift to help out Operations
 - Focused 100% OpenShift Operations
- Event Driven Remediation Platform
 - Standard Operating Procedures
- Inventory Views for Dedicated customers and Admins
- Strong usage of Hawkular Live Metric Project
- Updates to Chargeback



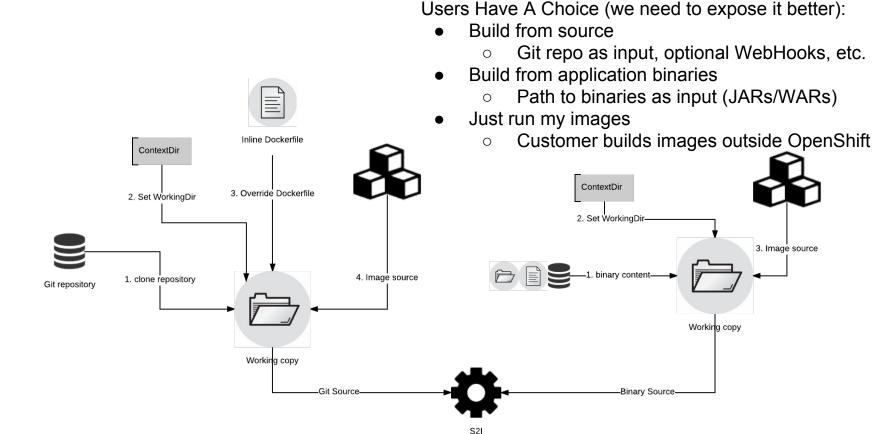
User Experience

3.3 updates:

- Navigation menu structure
- Pipelines
- Metrics
- Add to Project capabilities

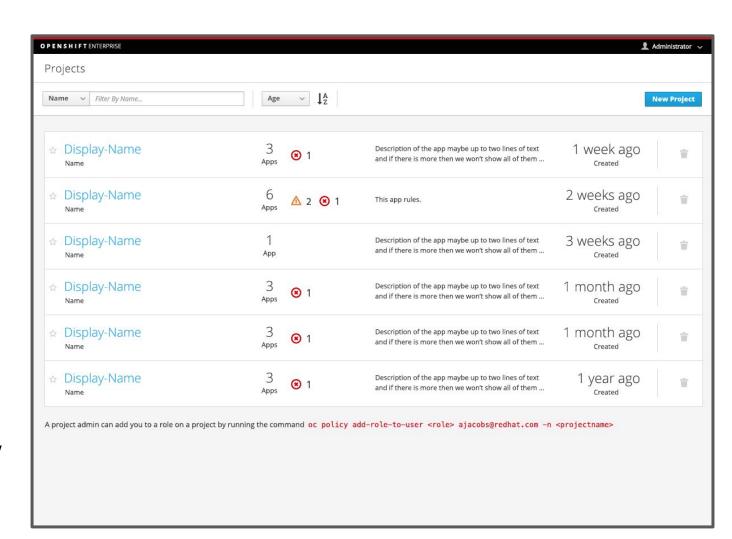


OpenShift Build Enhancements & Integration



Raise up key metrics

Improve P-Overview

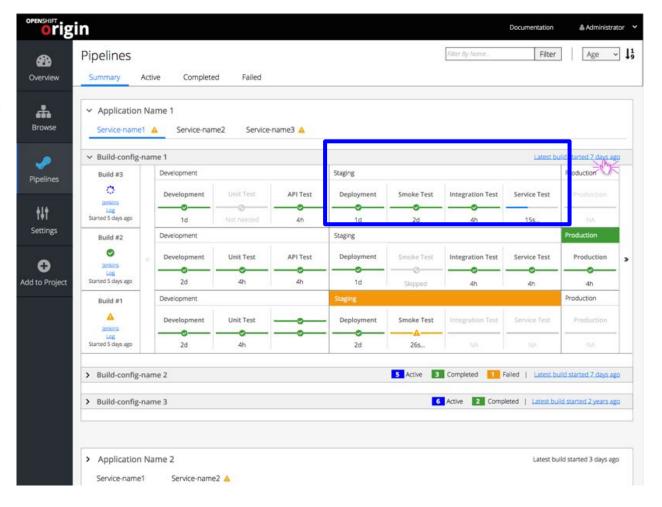


Environments

 Groups stages in a pipeline

Jenkins updates

- Security
- 2.0
- UX





RED HAT SUMMIT OVERVIEW

Lots of OpenShift sessions

- OpenShift sessions overview
 - https://summit.openshift.com/
- Red Hat Summit Presentations with slides