Red Hat Summit: Connect Opatija

Modern and Secure Software Development

Čedomir Novaković

CTO
Mozzart Bet

Wojciech Furmankiewicz

Head of Technology Sales
Red Hat CEE

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Organizational dynamics

Practices

Culture

Technology

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TL500 - DevOps Culture and Practice Enablement

A joint Global Learning Services and Open Innovation Labs offering

Learn how to build amazing product through immersion in DevOps and applied technical practices

> The reason I would recommend other people attend this course is to give a full appreciation of the whole DevOps lifecycle and culture. I think one of the challenges I see is that people will take one part of DevOps, the tool chain, or a practice, or Agile, and think of that as DevOps. To me, it happens when it all comes together.

Peter Sharp
Director Production Support, Leading financial services company

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Perfect platform solution

Microservices

Kubernetes

OpenShift

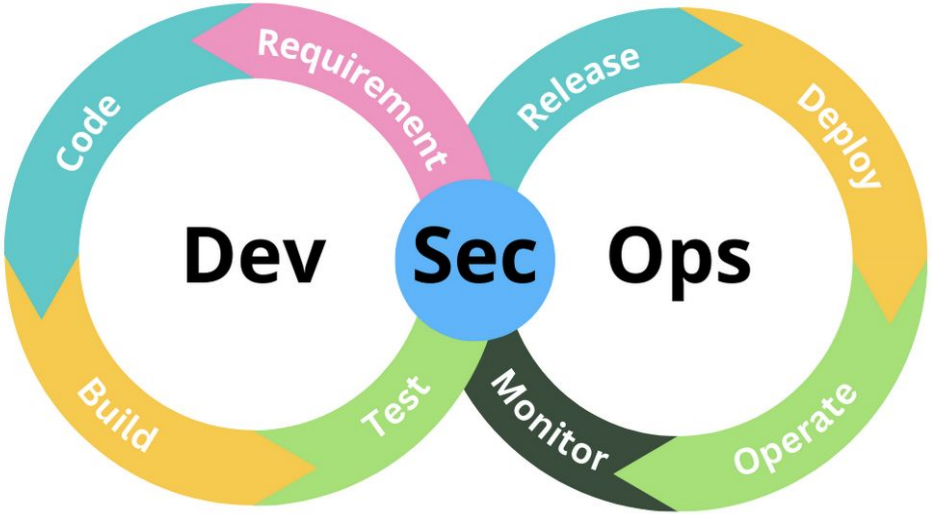
HCI

DevOPS Tools

IBM
Storage Fusion
HCI

Red Hat
OpenShift

Secure development lifecycle



Design / Dev

- Sprints
- Protected branches
- Code Commit
- SAST, Dependancy, Secrets, Container scanning
- Code Review
- Merged

CD

Deploy

- Deploy Non-Prod
- Deploy Prod
- Deploy Customer

Maintenance

CI

Monitor

- Logging
- Monitoring
- Alerting

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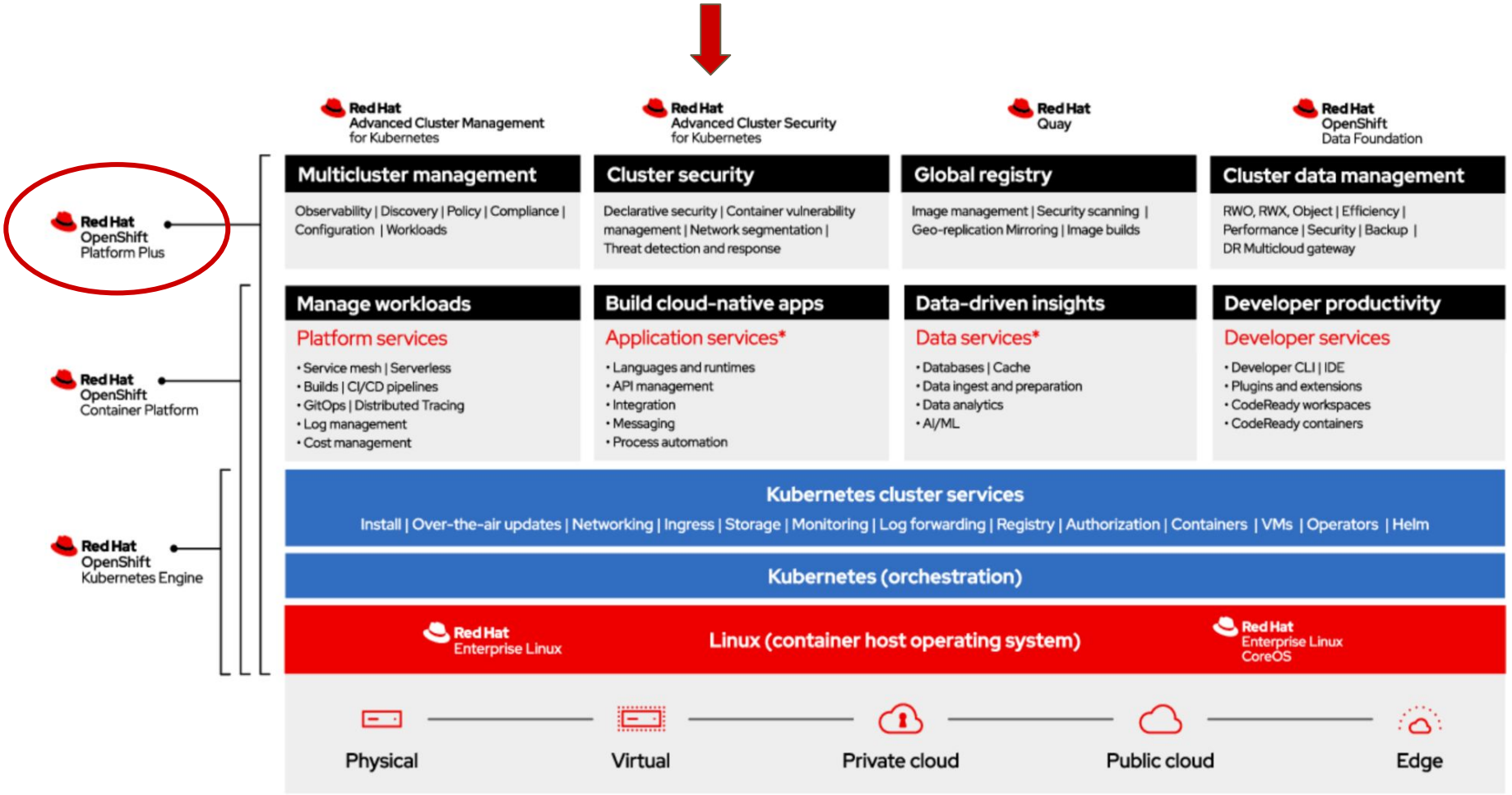
What about the teams?

Parameters	Platform Engineering	DevOps	SRE
Primary Goal	Optimize the speed and efficiency of software delivery operations	Maximum application reliability	Maximum application reliability
Scope	Software distribution activities	Reduce the time between releases and improve release quality	Ensures application reliability, incident response, and infrastructure management
Tools	Platform engineers use tools such as source code managers and CI/CD servers to automate software distribution	DevOps uses tools to build, monitor, test, automate, and containerize applications	SRE uses chaos engineering, SLO management, automated incident response, and more.

Other security components

	Focus	Features
XDR	Detect and respond to threats across the entire infrastructure	- Third-party integrations - Data management - Data correlation - AI-powered threat detection - Investigation and response - Reporting and visualization
EDR	Monitor and secure various endpoints	- Real-time monitoring - Threat detection - Behavior analytics - Incident response
SIEM	Automate incident response and other security operations	- Log aggregation - Event correlation - Incident response - Dashboards
SOAR	Detect existing threats	- Incident orchestration - Workflow automation - Incident response - Third-party integrations - Reporting and visualization


Red Hat Advanced Cluster Management for Kubernetes
Red Hat Advanced Cluster Security for Kubernetes
Red Hat Quay
Red Hat OpenShift Data Foundation
Red Hat OpenShift Platform Plus
Multicluster management
Observability | Discovery | Policy | Compliance | Configuration | Workloads
Cluster security
Declarative security | Container vulnerability management | Network segmentation | Threat detection and response
Global registry
Image management | Security scanning | Geo-replication Mirroring | Image builds
Cluster data management
RWO, RWX, Object | Efficiency | Performance | Security | Backup | DR Multicloud gateway
Red Hat OpenShift Container Platform
Manage workloads
Platform services
• Service mesh | Serverless
• Builds | CI/CD pipelines
• GitOps | Distributed Tracing
• Log management
• Cost management
Build cloud-native apps
Application services*
• Languages and runtimes
• API management
• Integration
• Messaging
• Process automation
Data-driven insights
Data services*
• Databases | Cache
• Data ingest and preparation
• Data analytics
• AI/ML
Developer productivity
Developer services
• Developer CLI | IDE
• Plugins and extensions
• CodeReady workspaces
• CodeReady containers
Red Hat OpenShift Kubernetes Engine
Kubernetes cluster services
Install | Over-the-air updates | Networking | Ingress | Storage | Monitoring | Log forwarding | Registry | Authorization | Containers | VMs | Operators | Helm
Kubernetes (orchestration)
Red Hat Enterprise Linux
Linux (container host operating system)
Red Hat Enterprise Linux CoreOS
Physical
Virtual
Private cloud
Public cloud
Edge

Our example...

- Add check in bootstrap about cluster — Uros
- Leverage edit role in teams — Filip Soldatovic
- Tune permissions for users on OCP — Filip Soldatovic
- Protect master branch of gitops- — Nikola Babic
- Configure grafana instance — Filip Soldatovic
- Configure Grafana Tempo for distributed tracing
- Configure Loki

- Create GitLab technical user (service — Nikola Babic
- Install Advenced Cluster security operator
- Configure cert manager and auto enrollment of new certificates
- Install OpenTelemetry operator
- Install container security operator
- Configure openshift logging
- Create applicationset for grafana dashboards

- Implement application onboard — 03.06 — Filip Soldatovic
- Remove self-provisioner for users — Filip Soldatovic

- Add gitops repo secret to Vault — 05.06 — Lucas Burigo
- structure tenants per cluster — 05.06 — Lucas Burigo
- Create OpenID client secret in — Filip Soldatovic
- Create external secret for OpenID — Filip Soldatovic
- Add OpenID client secret to Vault — Filip Soldatovic
- add external secret for gitlab client secret — 05.06 — Lucas Burigo
- Create OpenID client in GitLab for OpenShift authentication

- add gitlab client secret to vault — 05.06 — Lucas Burigo
- Install LightSpeed service and enable it — Filip Soldatovic
- Check scope when using gitlab authentication for users with subgroups — 04.06 — Lucas Burigo
- Configure Vault Config Operator — 02.06 — Lucas Burigo
- Enable Gitlab login with Google SSO — 16.05

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What's next?

Wide platform adoption

Service migrations

Further pipelines improvements and extensions

Replicate to other markets how much is possible

Include more products in "new way" of developments

Reduce overall technical debt

Increase the number of MVP's

Evolve with the platform

QUESTIONS

#we are hiring

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Thank you!

Čedomir Novaković
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