OpenShift Roundtable
Dev Confederation Edition

2025

```
skrenger@bastion:~$ oc get today.agenda.openshift.io/v1


skrenger@bastion:~$ oc get today.agenda.openshift.io ocp-community -o wide
TIME START  TIME END    COMPANY     TOPIC
11:15       12:00       Red Hat     OpenShift Roadmap & More
12:00       12:30       SIX         Architecting for Uptime: Swiss Instant Payments on OpenShift
12:30       13:30                   Lunch
13:30       14:00       Red Hat     Scalable Inference with llm-d and KServe
14:00       14:30                   Breakout Session
```

root@bastion:~$ cat ~/hosts.md

Simon Reber
Solution Architect, Red Hat

Simon Krenger
Technical Account Manager, Red Hat

Red Hat

OpenShift Roadmap & More

Simon, Simon
Red Hatters

```
skrenger@bastion:~$ oc get roadmap.openshift.io redhat-update -o wide
TIME START    TIME END     COMPANY      TOPIC
11:15         11:25        Red Hat      Introduction
11:25         11:40        Red Hat      OpenShift 4.19 & current deprecations
11:40         11:50        Red Hat      Red Hats focus topics
11:50         12:00        Red Hat      Roadmap OpenShift 4.20 and beyond
```

```
skrenger@bastion:~$ oc get roadmap.openshift.io ocp-4.19 -o yaml
[..]
spec:
  releaseDate: 2015-06-17
  nextRelease: 2025-Q4
  notableFeatures:
    - name: cgroupv1 removed
      desc: OCP 4.19 is the first release where cgroupv1 has been removed.
    - name: Image mode for OpenShift is now generally available
      desc: Extend the functionality of your base RHCOS image by layering images.
    - name: Prometheus v3 upgrade
      desc: New UI, Remote Write 2.0, better performance, more efficiency.
    - name: Support for using Gateway API to configure cluster ingress traffic
      desc: Gateway API with Envoy is now usable for Ingress
  techPreviews:
    - name: Direct authentication with an external OIDC identity provider
    - name: Configuring a local arbiter node
    - name: Installing a cluster on VMware vSphere with multiple disks
```

Experience with OCP 4.19

```
$ echo "No significant API
deprecations"

$ echo "Any experience with it?"
```

```
skrenger@bastion:~$ oc get deprecations.openshift.io/v1
```

```
skrenger@bastion:~$ oc get deprecations.openshift.io september-2025 -o yaml
[..]
spec:
  deprecations:
    - name: OpenshiftSDN
      desc: The CNI is supported until EOL of OCP 4.16
    - name: OpenShift Logging 5.9
      desc: Logging 5 will be supported until November 2025
    - name: RHEL Worker Node Deprecation in OpenShift
      desc: In OCP 4.19, RHEL Worker Node support was removed
    - name: DeploymentConfig API is being deprecated
      desc: Older API that will stay in OCP 4.x but is deprecated
    - name: ImageContentSourcePolicy (ICSP) is being deprecated
      desc: Older API that will stay in OCP 4.x but is deprecated
    - name: cgroup v1 is being deprecated
      desc: Clusters cannot upgrade to OCP 4.19 unless this is updated
```

sreber@bastion:~$ cat ~/ai.md

AI

Red Hat, like the rest of the industry, is currently focusing on AI. This includes:

* Heavy investment into Red Hat AI

    - Upstream vLLM project

    - Swiss LLM Apertus available in RedHatAI Hugging Face Catalog

    - llm-d

* Incorporation of more AI features into products such as:

    - OpenShift Container Platform (= Lightspeed)

    - Layered Products

* Enablement via OpenShift / upstream Kubernetes features

* Red Hat Build of Kueue

sreber@bastion:~$ cat ~/rhel.md

RHEL

RHEL is the basis for Red Hat CoreOS that is being used in OpenShift. RHEL 10 will also be coming in one of the next OpenShift releases.

Relevant features for us:

* Newer kernel features in Kernel 6.12

* Image Mode

* Post-quantum cryptography enablement

  See also Kubernetes Blog: Post-Quantum Cryptography in Kubernetes

Red Hat

sreber@bastion:~$ cat ~/k8s.md

Upstream Kubernetes

Lots of AI-related improvements for workload scheduling:

* Dynamic Resource Allocation (DRA) is GA in k8s 1.34

* Dynamic Accelerator Slicer

Other improvements coming in upstream Kubernetes:

* Pod replacement policy for Deployments

* Enhancing Kubernetes API Server Efficiency with API Streaming

* Scheduling improvements

* Support User Namespaces in Pods

* Multiple Service CIDRs

sreber@bastion:~$ cat ~/ocp.md

OpenShift

OpenShift Virtualization

A lot of customers are looking to shrink their current virtualization environment

* A lot of improvements coming specifically in KubeVirt and OpenShift networking.

* Integration of VM-specific features into RHACM / RHACS / Observability

* Live Cross-Cluster VM migration

Hosted Control Planes (HyperShift)

This year has seen a few larger projects start with Hosted Control Planes

* HCP is now the default for ROSA clusters

* Enables the Cluster-as-a-Service use cases that customers have

```
sreber@bastion:~$ oc get roadmap.openshift.io ocp-core-future -o yaml
[..]
spec:
  plannedFeatures:
  - desc: In-place Pod update
  - desc: Two Node OpenShift with Arbiter (TNA) or Fencning (TNF)
  - desc: Hitless automatic defrag of etcd nodes
  - desc: Checkpoint/Restore In Userspace
  - desc: Machine API to Cluster API migration
  - desc: Improved multi-cluster connectivity
  - desc: Swap support for containers
  - desc: Volume Attributes Classes
status:
  - note: All of these features are planned on the roadmap but not committed
```

Red Hat

```
sreber@bastion:~$ oc get roadmap.openshift.io/v1

sreber@bastion:~$ oc get roadmap.openshift.io operator-future -o yaml
[..]
spec:
  plannedFeatures:
  - desc: External Secrets Operator GA
  - desc: GitOps Application-based sharding
  - desc: Service Mesh Ambient Mode
  - desc: Service Mesh post-quantum readiness
  - desc: Multi-Cluster Service Mesh Management
  - desc: Tekton Results with multi tenancy support
  - desc: OpenShift Console OLM v1 support
  - desc: Red Hat's Zero Trust Workload Identity Manager Operator (SPIFFE/SPIRE)
  - desc: Advanced Cluster Management right-sizing recommendation for namespaces
  - desc: Enhancing Sigstore integration (keyless signing verification)
  - desc: SBOM scanning for vulnerabilities in Red Hat Advanced Cluster Security
status:
  - note: All of these features are planned on the roadmap but not committed
```

Red Hat

skrenger@bastion:~$ cat ~/summary.md

Summary

Red Hat OpenShift has grown up, so instead of building everything directly inside the platform, Red Hat and the entire CNCF community are building some seriously cool stuff on top of it.
While the core platform is still getting enhanced with features like two-node high availability (TNA/TNF) and in-place Pod updates, the real party is on the surface.
We're enabling AI with tools like vLLM and KServe by leveraging the broader Kubernetes ecosystem, which means more flexibility and innovation for users. The future is all about building awesome things on a rock-solid foundation.

Architecting for Uptime: Swiss Instant Payments on OpenShift

Livio Sgier
Senior Software Engineer, SIX

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Lunch & Connect

Back at 13.30

Scalable Inference
with llm-d and KServe

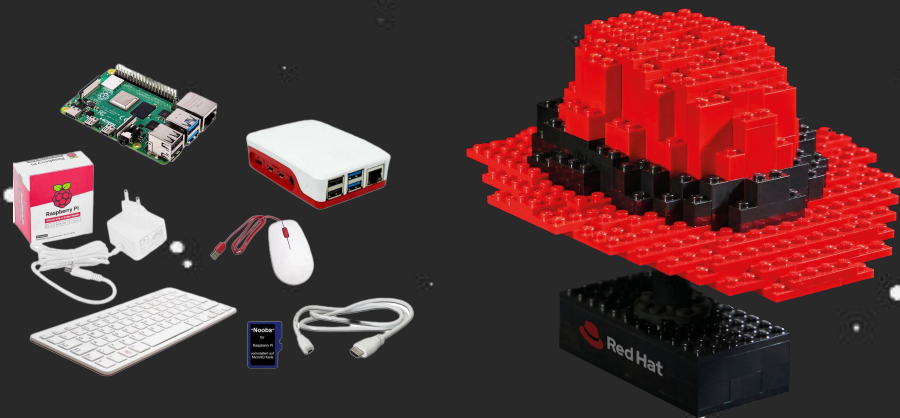**Bartosz Majsak**
Principal Software Engineer, Red Hat

Breakouts

Simon, Simon, Benji
Red Hatters

Your Feedback
is highly appreciated
it's your chance to win a Raspberry PI Kit
or a Lego Fedora

red.ht/SurveyDevConf

SAVE THE DATE
Next OpenShift Roundtable
19.03.2026 @ Zurich Insurance

15:00	15:30	16:00
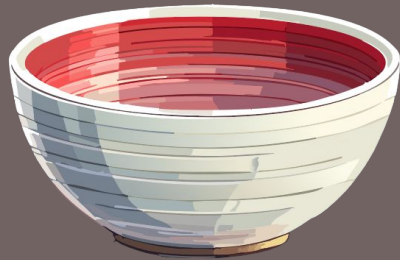
Main Hall

Empower Developers to do whatever they want whenever they want – but in a secure way!

Steve Favez & Corrado Ferilli, *Etat du Valais*

Main Hall

Trust and Resilience for Modern Sovereign Infrastructure

Karanbir Singh, *Red Hat*

Main Hall

Colliders and Codebases: What CERN can teach you about Innovation and Software

Cristian Schuszter, *CERN*

```
skrenger@bastion:~$ today.agenda.openshift.io/v1

skrenger@bastion:~$ oc get today.agenda.openshift.io breakout -o yaml
[..]
spec:
  breakoutTopics:
    - topic: OCP-Virt
      location: Outside, end of the hallway
      facilitator: baffolte@redhat.com
    - topic: Hosted Control Planes
      location: Room Back
      facilitator: sreber@redhat.com
    - topic: CI/CD Secure Supply Chain in Platform Engineering
      location: Room Front
      facilitator: skrenger@redhat.com
```
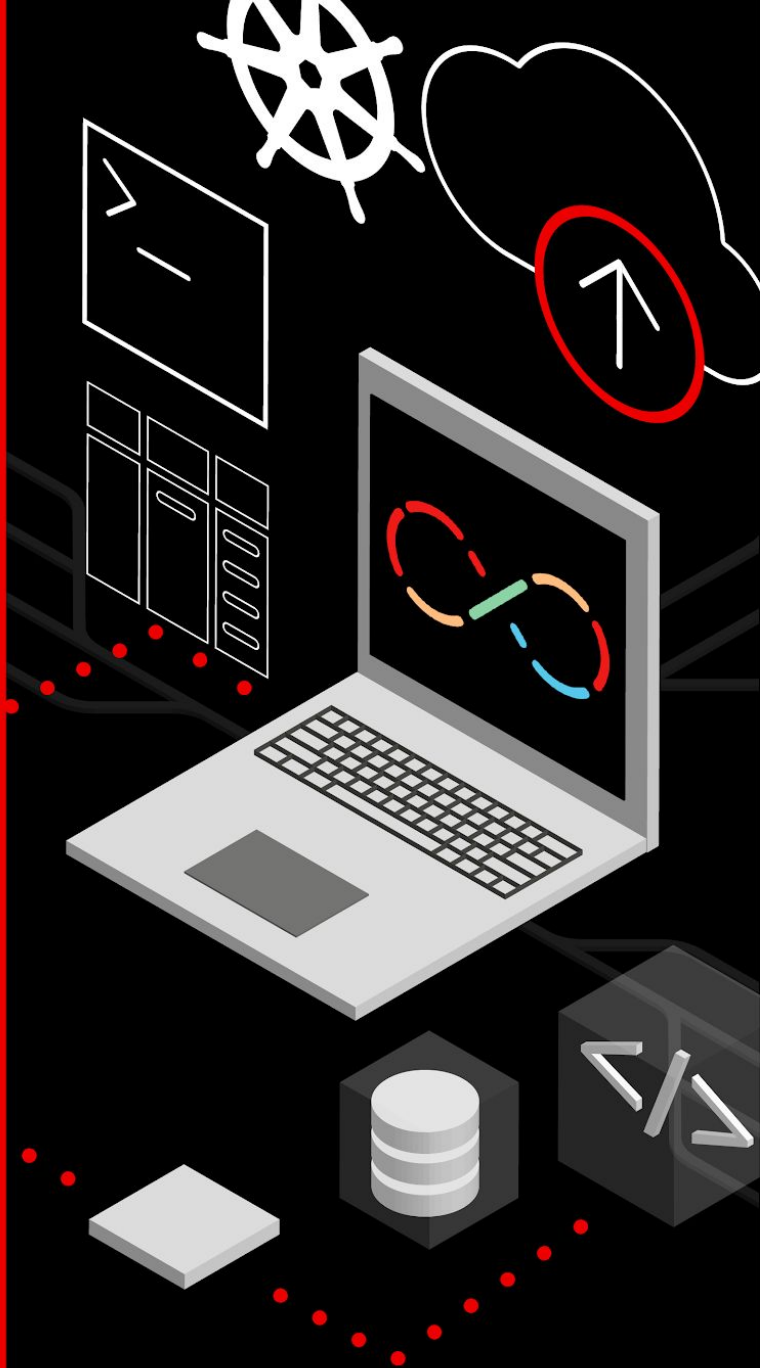
Closing Remarks

Simon, Simon, Chris
Red Hatters

Thank you!