Openshift alla base di Nivola 2

Luca Bigotta Red Hat

Openshift alla base di Nivola 2

- Overview di Red Hat Openshift
- Le Capabilities di Red Hat Openshift
- Openshift in Nivola 2

Red Hat Openshift

You need an application platform that is...

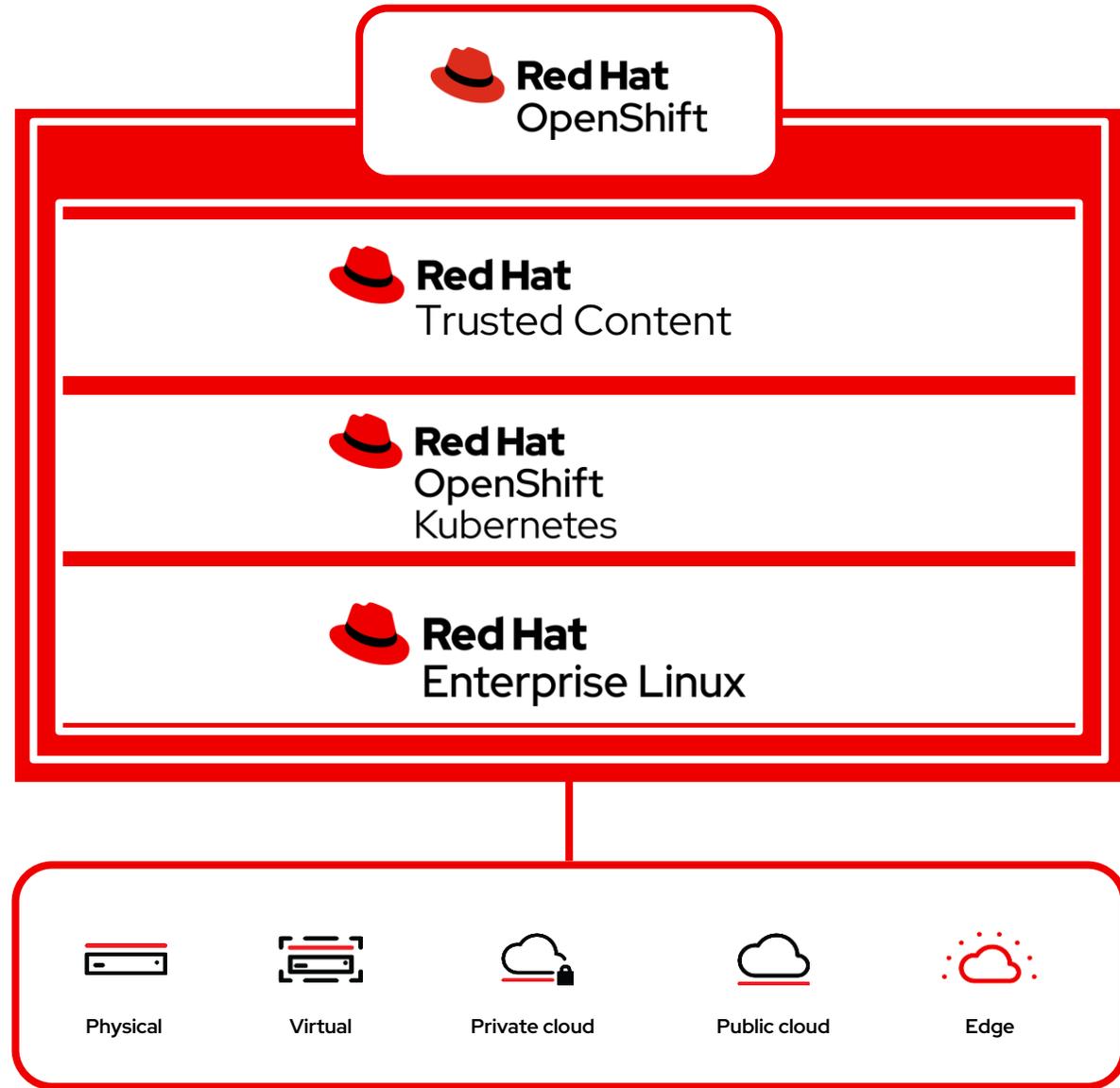| Trusted	Comprehensive	Consistent
to reduce risk	to simplify adoption	to increase portability

Red Hat OpenShift

Any workload, any footprint, any location

Red Hat Openshift

OpenShift built on a
Trusted
Container Engine

Red Hat OpenShift

Red Hat Trusted Content

Red Hat OpenShift Kubernetes

Red Hat Enterprise Linux

Physical | Virtual | Private cloud | Public cloud | Edge

Red Hat Openshift

OpenShift Delivers a
Comprehensive
Application Platform
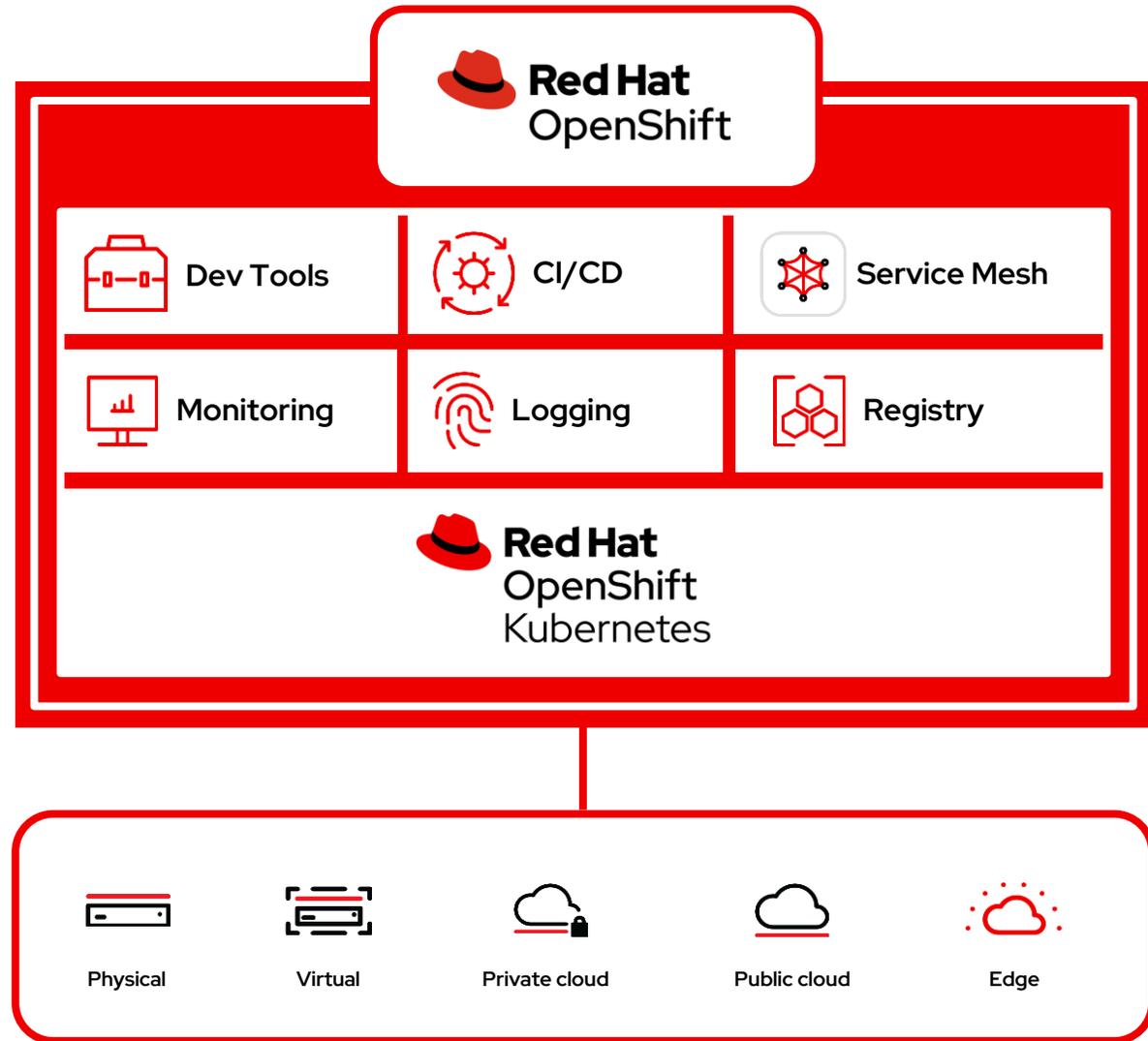
Components of an Application Platform

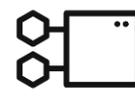Application developers need more than Kubernetes to be productive

Application Build	Developer tools	Runtimes & frameworks	Serverless & functions	Cloud services APIs	Migration tools
Application Delivery	CI/CD & GitOps	Container registry	Observability	Logging	VMs and containers
Application Security	Service mesh	Vulnerability scanning	Security policies	Cert & secret tooling	Auth and SSO services

This is not an exhaustive list of services in OpenShift

The best Application Platform to support your business

Kubernetes

Pre-Integrated
Cloud native Application Platform

Automated, full-stack installation *from the container host to application services*

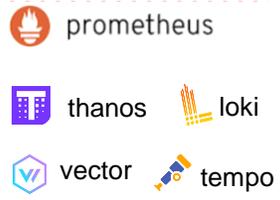**Seamless Kubernetes deployment** *to any cloud or on-premises environment*

Autoscaling *of cloud resources*

One-click updates *for stack, services, and applications*

From a newstack article defining a cloud native stack, OpenShift container platform neatly fits the definition.
What Is the Modern Cloud Native Stack? – The New Stack

Red Hat Openshift Capabilities

Platform Services

Service Mesh ⋮ Serverless
Builds ⋮ CI/CD Pipelines
Full Stack Logging ⋮
GitOps

Application Services

Databases ⋮ Languages
Runtimes ⋮ Integration
100+ ISV Services

Developer Services

Developer CLI ⋮ VS Code
extensions ⋮ IDE Plugins
Code Ready Workspaces
CodeReady Containers

Cluster Services

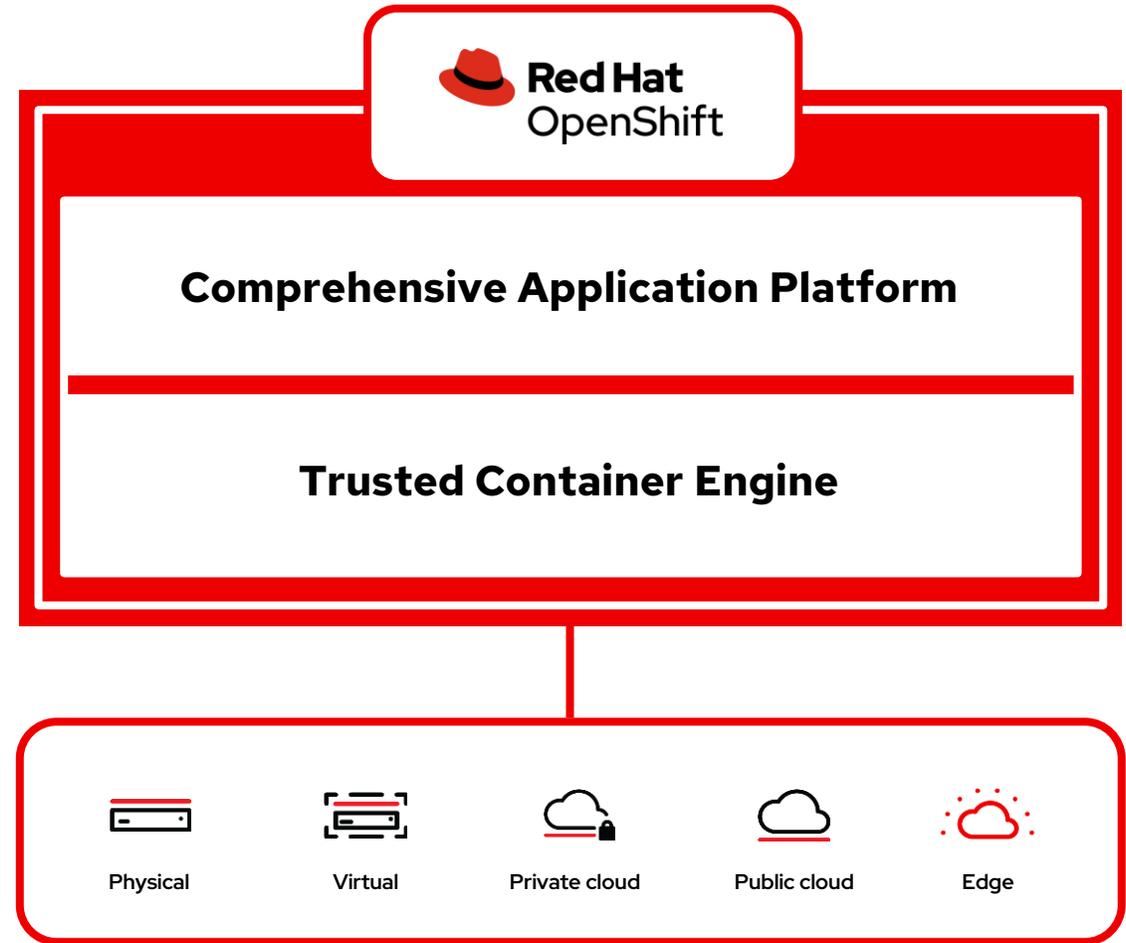Automated Ops ⋮ Over-The-Air Updates ⋮ Monitoring ⋮ Registry ⋮ Networking ⋮ Router ⋮ KubeVirt ⋮ OLM ⋮ Helm

Kubernetes

Red Hat Enterprise CoreOS

prometheus
thanos   loki
vector   tempo

OPERATOR FRAMEWORK
HELM

kubernetes

cri-o   skopeo
podman   buildah

Red Hat Openshift

OpenShift is
Consistent
Across a Hybrid Cloud
environment

Red Hat OpenShift

Comprehensive Application Platform

Trusted Container Engine

Physical   Virtual   Private cloud   Public cloud   Edge

Red Hat Openshift

Red Hat OpenShift

Any workload, any footprint, any location

Trusted

to reduce risk

Comprehensive

to simplify adoption

Consistent

to increase portability

Container	ISV package	Application	AI/ML

Physical — Virtual — Private cloud — Public cloud — Edge

Openshift alla base di Nivola 2

Flessibilità di deployment

in **Nivola 2** è possibile allocare i servizi di Red Hat Openshift nelle modalità:

- **shared** (in a Multi-Tenant architecture) con risorse controllate
- **dedicated**: su cluster bare metal o virtuale