

KONTRON ICP INDUSTRIAL CLOUD/VIRTUALIZATION PLATFORM

LEAFLET



OPEN INFRASTRUCTURE. SOVEREIGN CLOUD. FROM VIRTUALIZATION TO KUBERNETES — ON YOUR TERMS.

A CREDIBLE ALTERNATIVE TO PROPRIETARY VIRTUALIZATION PLATFORMS — WITHOUT VENDOR LOCK-IN.

ICP is a flexible private-cloud and virtualization platform built on open technologies such as KVM and Ceph, with OpenStack available where cloud control is required. It helps organizations reduce dependency on proprietary virtualization platforms and eliminate vendor lock-in risks, keep data and operations under local control, and modernize at their own pace - from virtual machines to Kubernetes-based workloads.

Sovereignty first

Private deployment, local repositories, validated upgrades and local support ensure full control over infrastructure, data and lifecycle — without external dependencies.

Built for evolution

Start with virtualization and scale toward cloud operations, automation and Kubernetes when the business is ready.

Open and resilient

Open components reduce lock-in while hardened design, tested integration and DevSecOps discipline improve stability.

Ready for Day-2

Monitoring, logging, backup, upgrades and lifecycle support are treated as part of the platform, not as an afterthought.

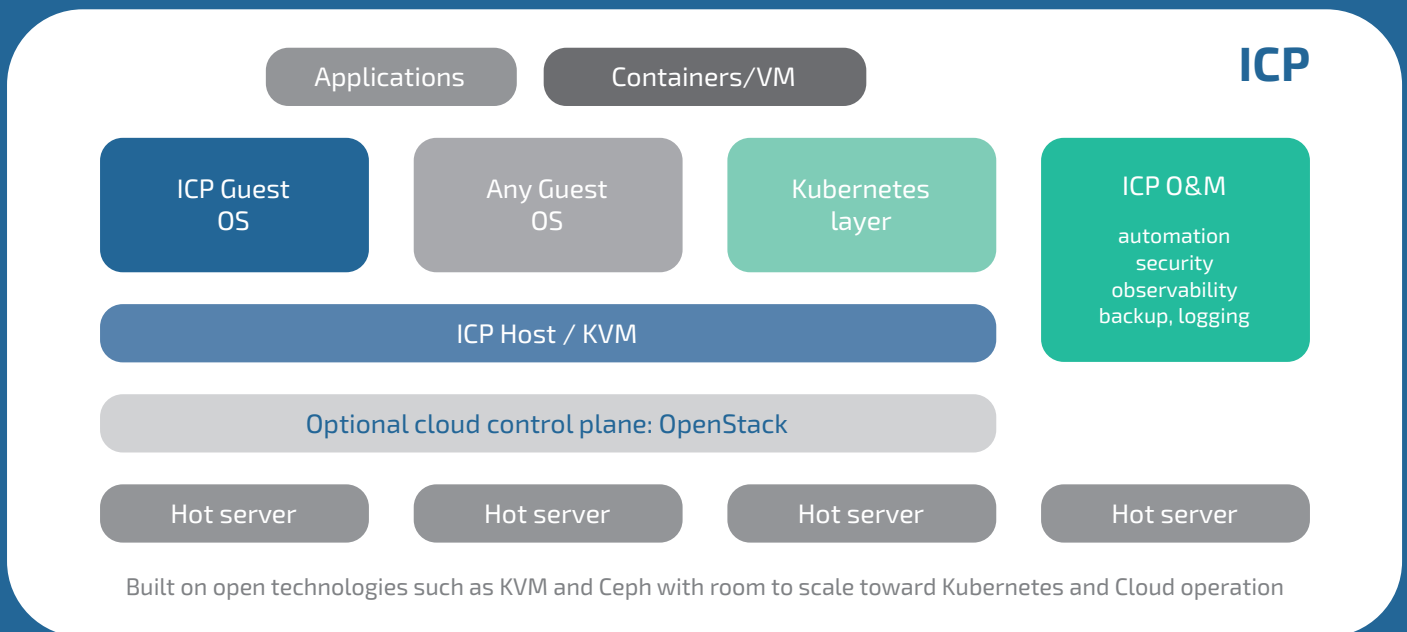
DEPLOYMENT MODELS

- **ICP Virtual Platform (VP)**
Compact deployment for small and edge environments
- **ICP Cloud**
Scalable private cloud (3–100+ nodes)
- **Kubernetes on ICP**
Platform for CNF, AI and modern workloads

BEST FIT FOR ORGANIZATIONS THAT ...

- need long-term platform cost optimization and want a credible path away from proprietary virtualization stacks,
- must balance legacy applications with cloud-native workloads in the same operational model,
- value data sovereignty, localization and a trusted local support model,
- want modern infrastructure without overcommitting to public cloud or a single vendor.

TECHNICAL FOUNDATION AND DEPLOYMENT PATH



Core stack

KVM-based virtualization, Ceph-based scalable storage, separated management / storage / data networks, and optional OpenStack control plane.

Operations and support

Automation with Ansible and CLI workflows, observability with Prometheus / Grafana, logging, backup and lifecycle support for upgrades and Day-2 operations.

Expansion options

Kubernetes-ready platform (VM and bare-metal)

Run Kubernetes on VMs or bare metal — with integrated operations, monitoring and lifecycle management.

WHY THIS MATTERS?

Less lock-in

Open components and flexible architecture reduce dependency on a single stack vendor.

More control

Keep infrastructure, data and operations under your governance.

Safer modernization

Modernize step-by-step — without disruption. From virtualization to cloud and Kubernetes.

PROVEN IN PRODUCTION

Used in telecom, rail and industrial environments, including distributed edge-cloud deployments with multiple locations and high-availability requirements.