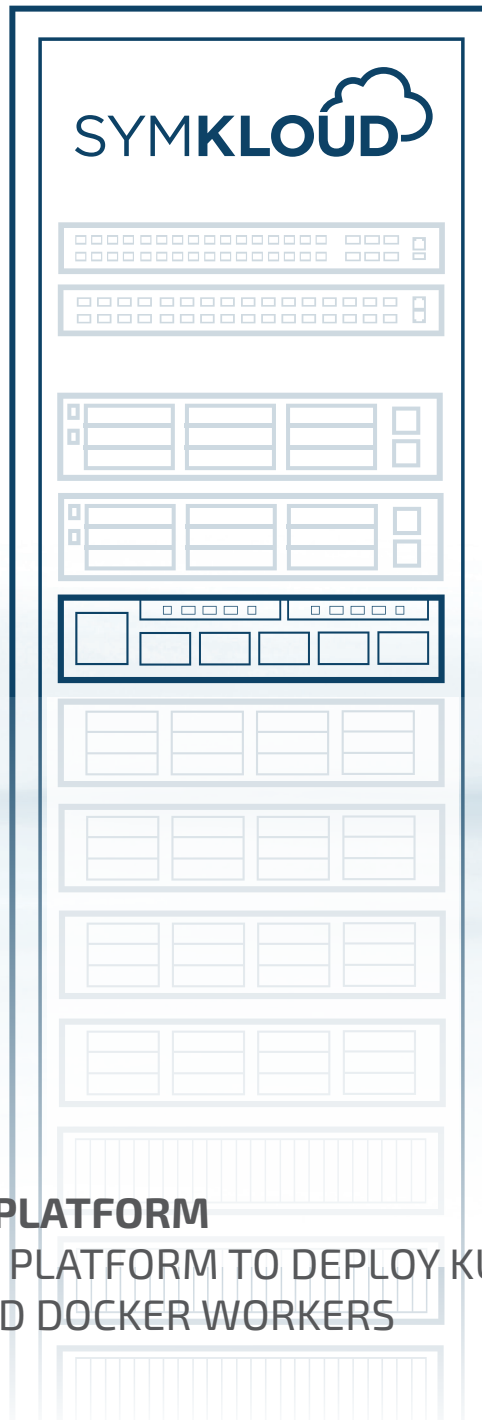


▶ SYMKLOUD
KUBERNETES
PLATFORM



KUBERNETES
PLATFORM
MS2900 Series
Converged Platforms



 **kubernetes**


docker

CANONICAL

ubuntu[®]

SYMKLOUD

◀ **SMALLEST**
container orchestration
footprint

◀ **REDUNDANT**
controllers

◀ **TRANSPARENT**
no vendor lock-in

◀ **CLOUD & EDGE**
use cases for telco service
providers

CONTAINER CLOUD PLATFORM

SINGLE TURNKEY HA PLATFORM TO DEPLOY KUBERNETES
ORCHESTRATION AND DOCKER WORKERS

- ▶ BASED ON THE CANONICAL DISTRIBUTION OF KUBERNETES
- ▶ OPERATIONAL IN HOURS, NOT DAYS; SUPPORTS UPGRADES TO EACH NEW KUBERNETES RELEASE
- ▶ EASILY EXPAND DOCKER COMPUTE RESOURCES FROM INITIAL FIVE MODULAR SERVERS ON FIRST PLATFORM

POSSIBILITIES START HERE



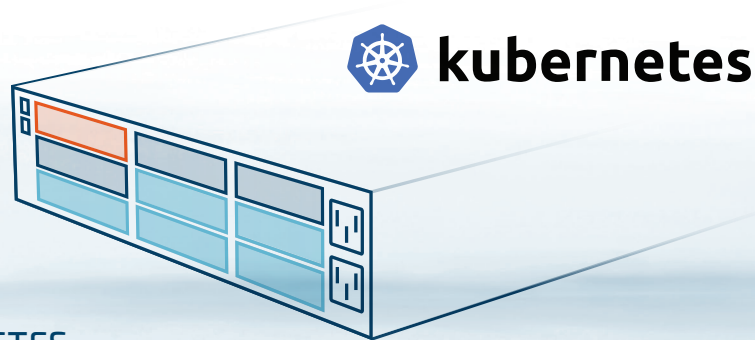
Just start with one SYMKLOUD
Kubernetes Platform to run
microservices at the edge or central office.
Then add more compute as needed.

SYMKLOUD Kubernetes Platforms — Build and scale your cloud

With the SYMKLOUD Kubernetes Platform, Kontron has eliminated the integration headaches of Kubernetes and Docker engines to ensure a faster set up of any cloud environment. Moreover, Kontron ensures that its SYMKLOUD Kubernetes Platform replicates the work done by Canonical to make Kubernetes as secure as it is easy to deploy, operate and upgrade.

Kontron also chose to integrate the Canonical Distribution of Kubernetes because it is GPU and Nvidia CUDA ready. This means any GPU components can be detected, configured and made easily composable in SYMKLOUD hardware. This opens up numerous opportunities for service providers to generate new revenues from intelligent services derived from edge-related GPU machine learning, AI and transcoding services.

- MAAS/JUJU DEPLOYER
- KUBERNETES REDUNDANT CONTROLLERS x3
- AVAILABLE WORKERS x5



▶ AUTOMATED KUBERNETES DEPLOYMENT OUT OF THE BOX

Hardware Specs

- ▶ MS2910 Converged Infrastructure Platform
- ▶ Dual modular 20GbE switches to fabric
 - > Traffic Shaping via 20G switches (360GbE total data plane; 18 GbE total control plane)
 - > Improved performance with physical Data- and -Control Plane separation
 - > Support for hardware accelerated SDN (OpenFlow)
- ▶ Web-based System Manager for health monitoring
- ▶ Up to Nine (9) x MSP804x Modular Servers; each features:
 - > Single Socket Intel® Xeon® D-1500 Series
 - > 12C (1.5 Ghz) used for OpenStack platform; 16C (1.3 GhZ)
 - > Other options include: 4C (2.2 Ghz); 8C (2.0 Ghz); 16C (1.3 GhZ)
 - > 4x DDR4 DIMMs; total 128GB using 32GB VLP RDIMMs
 - > Dual SATA HDD or SATA/U.2 SSD; up to 4TB of storage
- ▶ Support for 100GbE MS2920 platform using MSP8050 and MSP8060 modular servers in Q2;18

HARDWARE CONFIG FOR KUBERNETES v1.9

- ▶ 1x MSP804x assigned to MAAS/Juju deployer
- ▶ 3x MSP804x assigned to Kubernetes controllers
- ▶ Up to 5x MSP804x assigned to Docker engines

Software Specs

- ▶ Canonical Distribution of Kubernetes
- ▶ Canonical MAAS
 - > Zero-touch deployment of Windows, Ubuntu, CentOS, RHEL and SUSE
- ▶ Canonical Juju
 - > Model, configure, and manage hundreds of pre-configured services.

SYMLAB

ASK ABOUT SYMLAB

A SECURED REMOTE ACCESS EVALUATION LAB

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