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CloudNativeCon

Europe 2021

An Open-Source HCI Software Built on Kubernetes

Sheng Yang

Rancher

Virtual



Traditional Hyper-converged Infrastructure (HCI)



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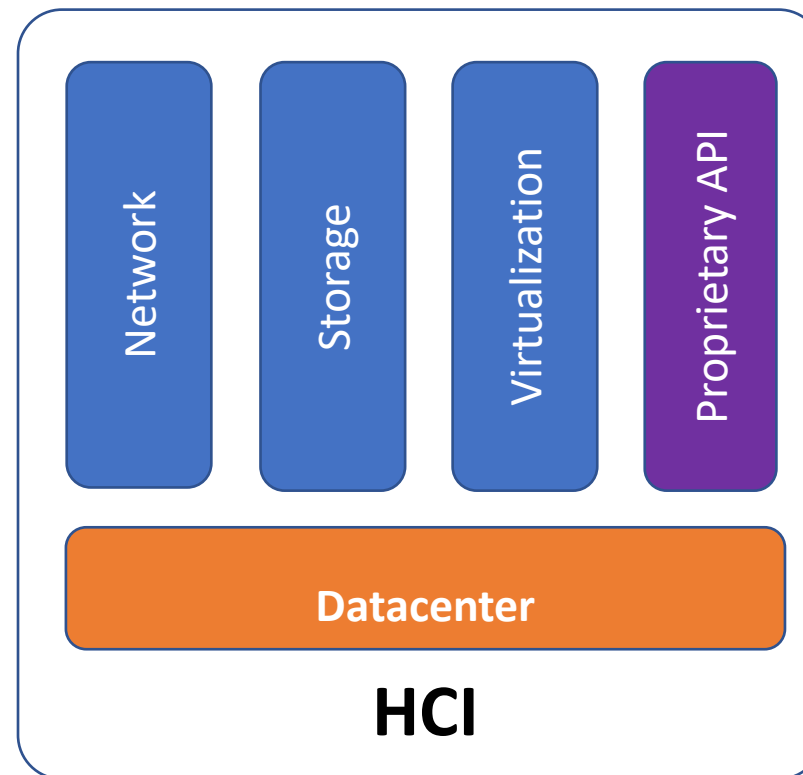


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HCI: Integrated storage, and virtualization.



Traditional HCI (cont.)



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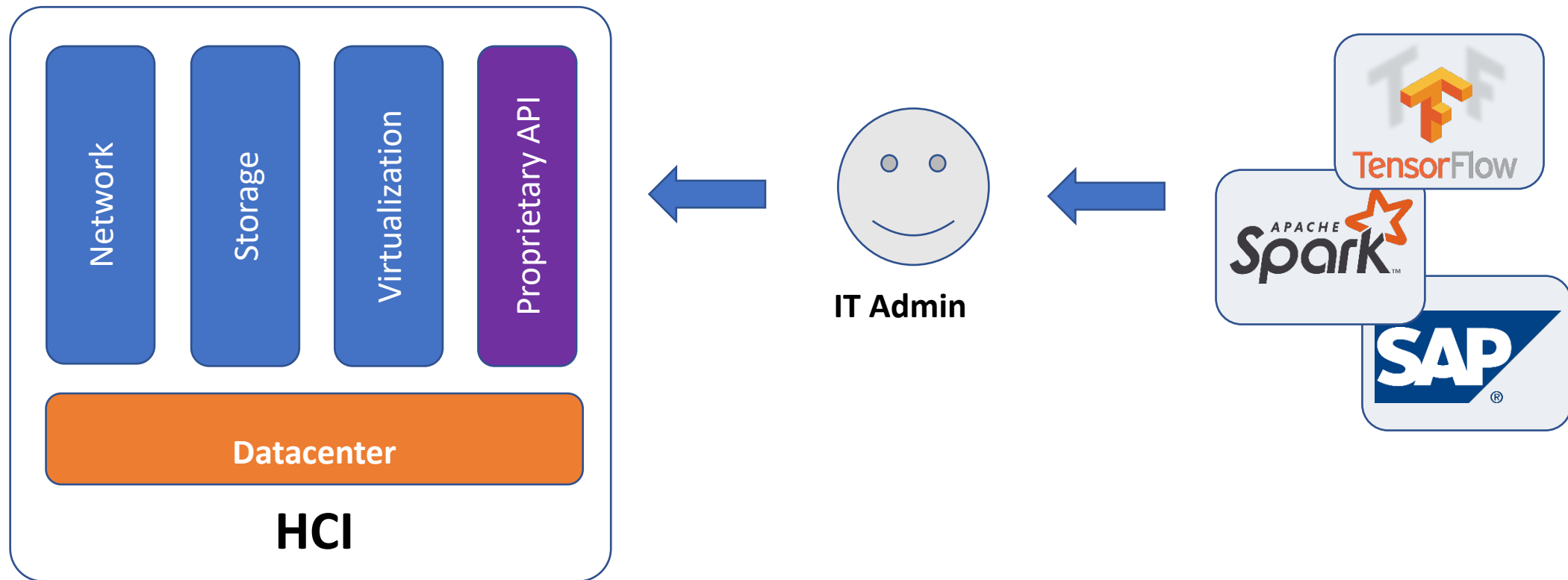


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But proprietary API does not integrate well with applications



Introducing HCI 2.0

Integrate applications through the Kubernetes API



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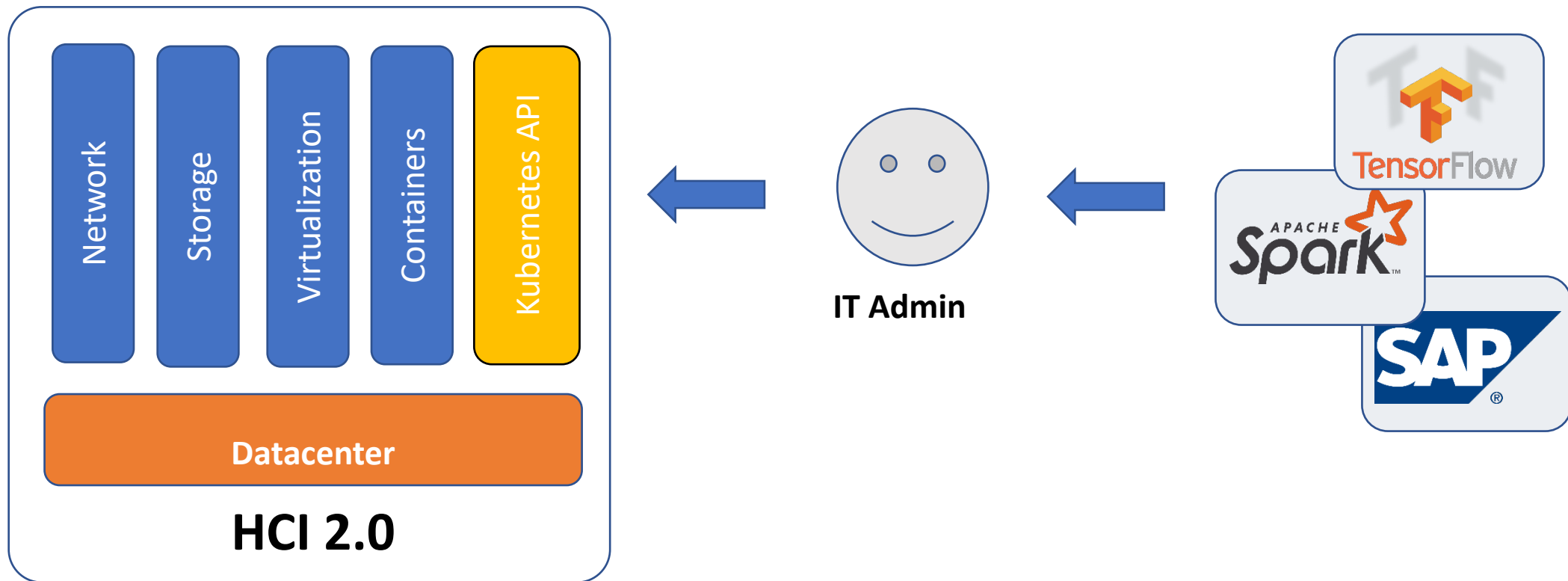


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Replace proprietary APIs with the open industry standard API: Kubernetes



Introducing Harvester



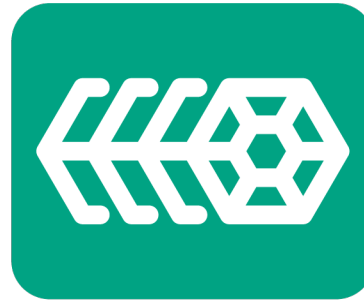
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HARVESTER

<https://harvesterhci.io/>

An open source hyperconverged infrastructure (HCI) software
Built on top of Kubernetes

HCI 2.0 with Harvester



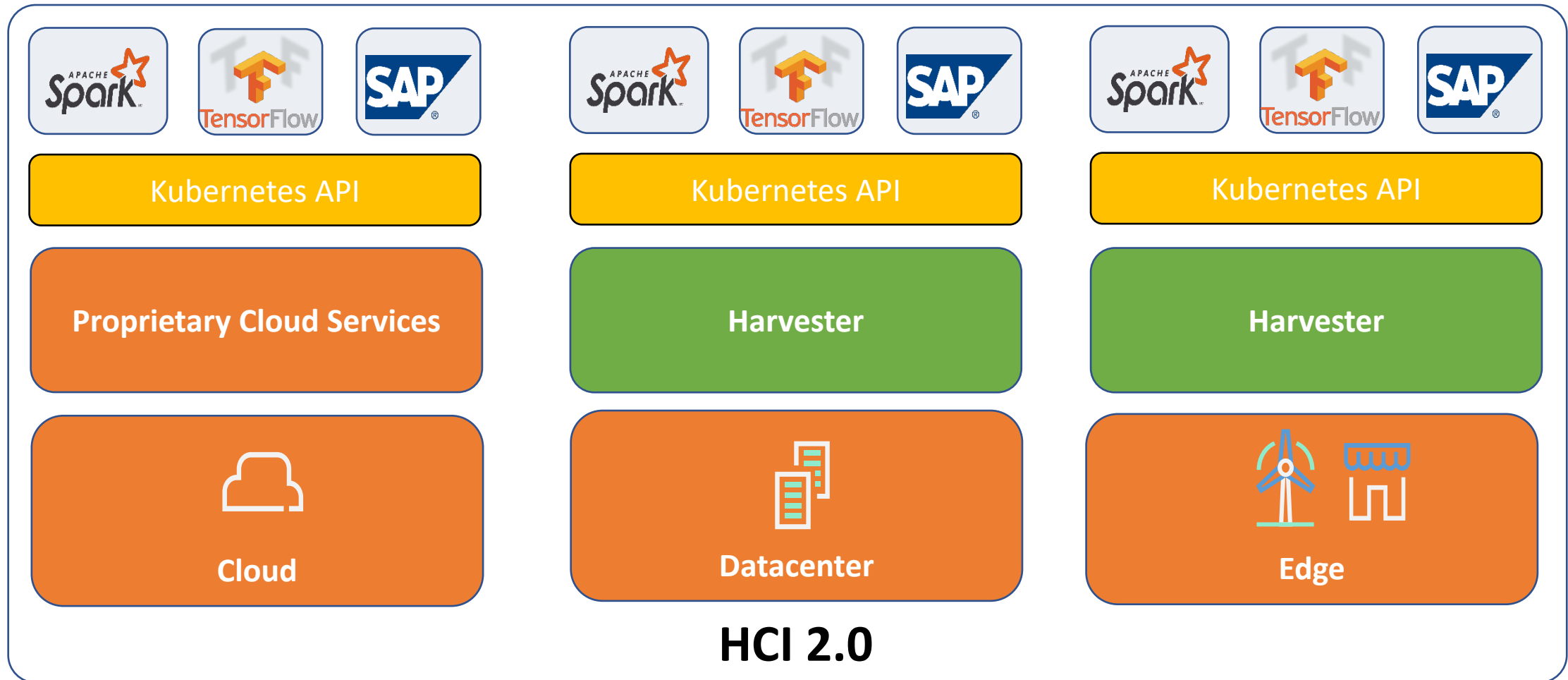
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Announcing Harvester Beta (v0.2.0)



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Feature list

- VM lifecycle management
- Distributed block storage
- Flexible networking
 - Multiple NICs
 - VLAN
- Image management
- Live migration
- PXE boot
- Spin up and manage Kubernetes cluster

Harvester architecture



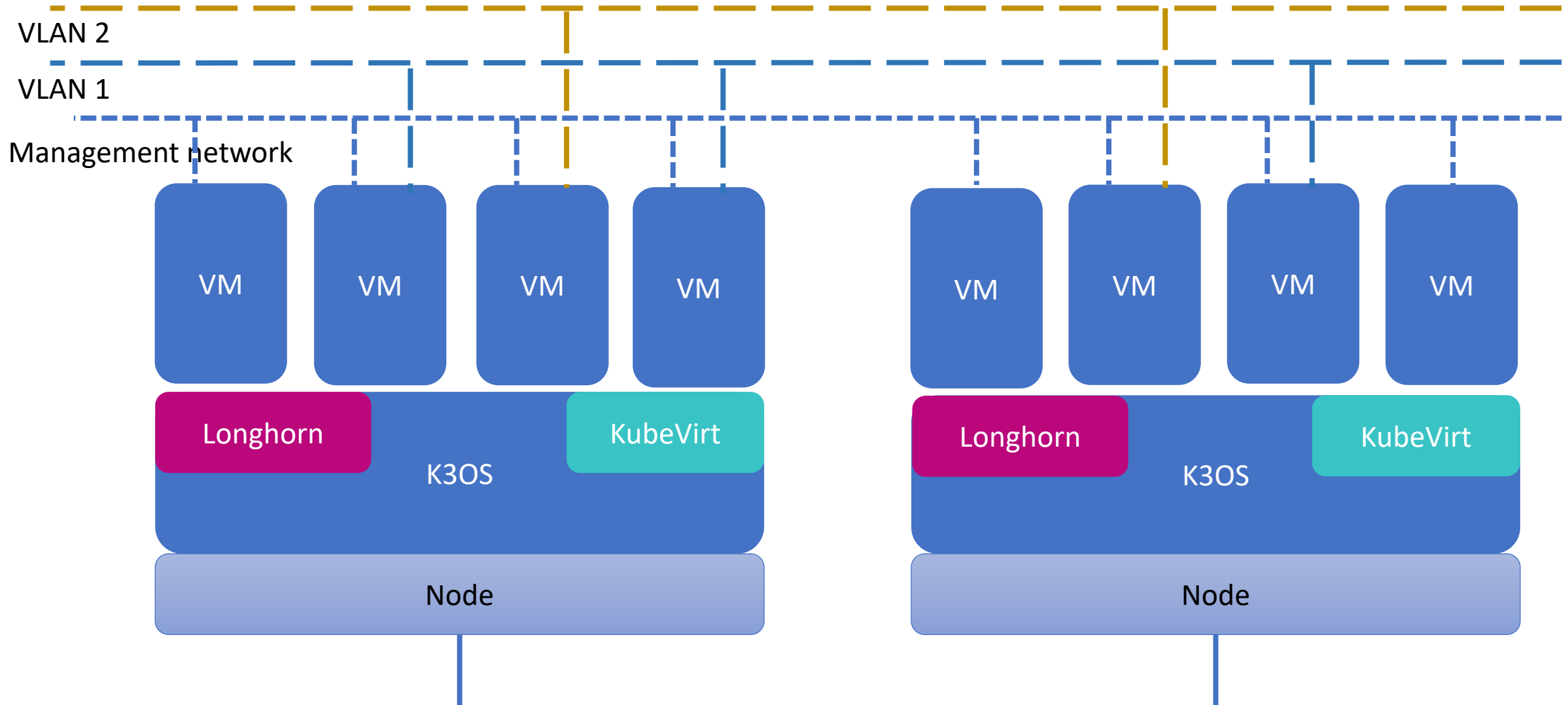
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Demo



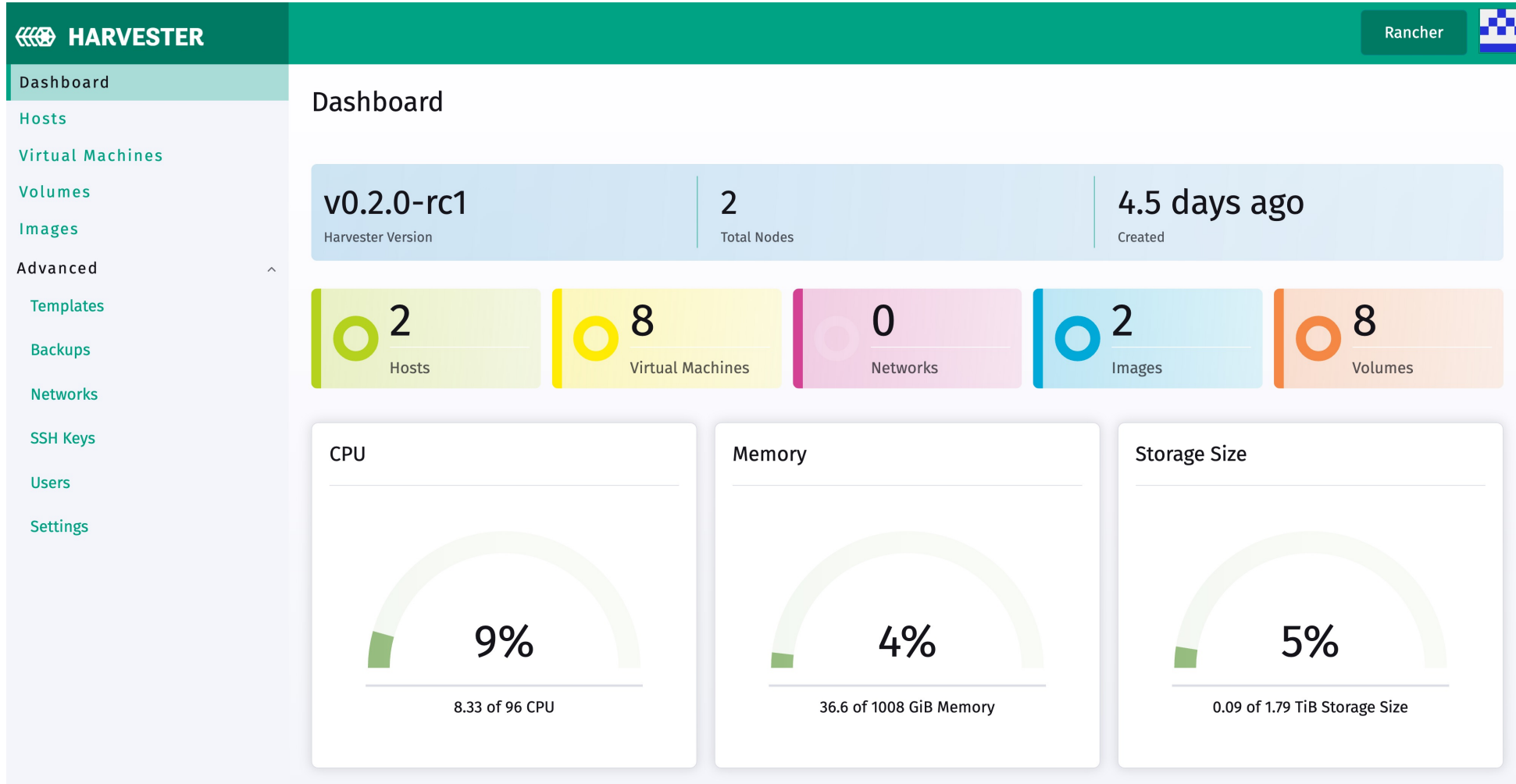
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Roadmap



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- Harvester v0.3.0 (Q3 2021)
 - Enhanced image operations
 - Replace K3OS
 - Disk hot plug
 - Enhanced Monitoring
 - Logging support
- Harvester v1.0.0 GA (Late 2021)

- Download the ISO for latest release at <https://github.com/harvester/harvester>
- Website: <https://harvesterhci.io/>
- GitHub: <https://github.com/harvester/harvester>
 - Feel free to file issues or feature requests
- Slack:
 - Rancher User Slack: <https://slack.rancher.io/> #harvester channel
- Feedbacks are welcome!



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Forward Together »