

# Launch Your IT Infrastructure into the Multi-Cloud Era with VMware vSphere 8

Begin the countdown to bring cloud benefits on-premises!



## Solve Top Infrastructure Challenges With VMware vSphere 8

5

**Cloud migration cost overruns continue to mount.**

75%

Three quarters of all organizations report that spending on cloud migration exceeds planned budget<sup>1</sup>

### Bring the benefits of cloud to on-premises workloads

- Leverage existing investments and pivot to a flexible subscription model
- Enhance your on-premises workloads in place with cloud services to empower admins and dev/DevOps teams, and choose from add-on cloud services like disaster recovery, ransomware protection, capacity planning and optimization, and more

4

**IT infrastructure teams spend a lot of time keeping up with maintenance backlogs.**

### Reduce the time spent in IT maintenance windows

- Return to normal IT operations faster from maintenance tasks by pre-staging ESXi image downloads and performing ESXi upgrades simultaneously on multiple hosts

3

**IT executives find it hard to scale AI/ML investments in order to justify return on investments.**

54%

On average, 54% of AI projects make it from pilot to production<sup>2</sup>

### Scale your IT infrastructure to support complex AI/ML workloads

- Scale available GPU resources efficiently with support for 8 vGPUs per VM
- Speed up training time of complex AI/ML models by deploying up to 32 GPUs and NICs in passthrough mode, per VM

2

**While Kubernetes has become the de-facto standard to manage containers, Development teams spend a significant amount of time dealing with infrastructure challenges.**

96%

Most organizations are either using or evaluating Kubernetes<sup>3</sup>

### Accelerate innovation for Development teams

- Reduce time spent by DevOps teams to setup and provision infrastructure with Self-service access to IaaS services through the Cloud Consumption Interface
- Simplify Kubernetes cluster lifecycle and package management with API-driven ClusterClass and Carvel-based tooling

1

**The increasing demand for infrastructure services leaves fewer computing resources for workloads, increasing overall cost.**

33%

Some AI/ML inference services spend as little as a third of the time serving the application needs and the rest in orchestrating services<sup>4</sup>

### Achieve lower infrastructure TCO, while boosting workload performance

- Achieve higher workload consolidation per core by offloading network infrastructure services on the DPU

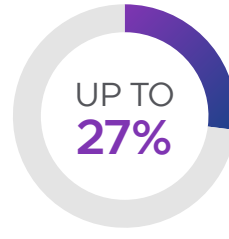


Freed up compute capacity that is available to run workloads

- Improve performance of modern distributed workloads like Redis by accelerating network functions on the DPU



Improvement in transaction rate



Reduction in latency of network packets

**Are you ready to bring cloud benefits to on-premises workloads while supercharging performance and accelerating innovation?**

Find out how VMware vSphere 8 can help, Learn more at

[www.vsphere.com](http://www.vsphere.com)

#### Sources

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3. Cloud Native Computing Foundation, Annual Survey 2021, February 2022.
4. IEEE Micro. "Understanding Acceleration Opportunities at Hyperscale." Akshitha Sriraman, Abhishek Dhanotia, May/June 2021.