



Research Abstract



## Faster Deployment, Lower IT Labor Costs

Testing shows how Dell™ Private Cloud reduces Day-0 through Day-2 operational effort compared to traditional three-tier architectures for VMware® and Red Hat® OpenShift® workflows.

Prowess Consulting evaluated whether an integrated private cloud architecture can reduce the operational effort required to deploy and manage enterprise infrastructure compared to a traditional three-tier design. We used a controlled, task-level methodology to measure time on common Day-0 through Day-2 activities across VMware® and Red Hat® OpenShift® environments. Our analysis focused on real-world administrative tasks such as installation, provisioning, scaling, and ongoing management to determine how significantly architectural differences can affect operational efficiency and labor requirements at scale.

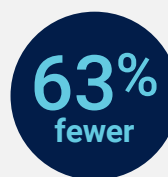
Across all measured phases, we found that Dell™ Private Cloud consistently required less time to complete equivalent tasks than a traditional three-tier architecture. The integrated platform reduced combined Day-0 and Day-1 deployment time by up to 63%, decreased Day-1 provisioning and configuration time by as much as 85%, and lowered ongoing Day-2 administrative effort by up to 66% per cluster. These gains reflect reduced workflow fragmentation, fewer manual handoffs, and the use of orchestrated processes that streamline operations across compute, storage, and networking domains. As a result, organizations that make use of Dell Private Cloud instead of a traditional three-tier architecture can accelerate time to production while reducing the effort required to scale infrastructure. When translated into modeled labor costs, the measured time savings produce meaningful operational expense advantages, especially in multi-cluster deployments.

Our study demonstrates that integrated private cloud architectures can improve efficiency without changing underlying workload requirements, offering a more predictable and scalable operational model. These findings point to a practical way for enterprise IT organizations to reduce administrative overhead and support long-term infrastructure flexibility through a unified management framework.

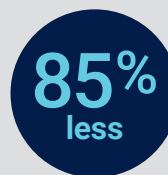
Read the [research study](#) for full results and analysis.

### Highlights

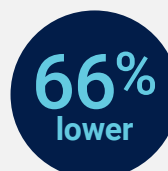
Prowess Consulting found that, compared to traditional three-tier architectures for VMware® and Red Hat® OpenShift® workflows, Dell™ Private Cloud can result in up to:



Day-0 and Day-1 deployment hours



Day-1 provisioning time



Day-2 administration time



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