

Dell Private Cloud vs. Traditional 3-Tier Architecture

Choose the right solution to help reduce your operational costs with flexibility, scalability, and simplicity.

Prowess Consulting compared Dell Private Cloud against a traditional 3-tier environment and found that it provides the following benefits:



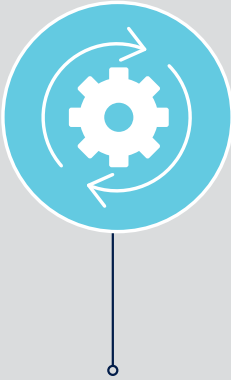
Flexibility

An open, disaggregated architecture supports your choice of cloud operating system (OS) on Dell compute and storage. Transferable subscriptions and reusable infrastructure help avoid lock-in and evolve platforms over time.



Scalability

Independently scale compute and storage to match the needs of each workload instead of overprovisioning entire stacks. Shared Dell storage drives higher utilization while helping reduce hardware and licensing costs.



Simplicity

Blueprint-driven automation orchestrates deployment, expansion, and lifecycle updates, minimizing manual steps and risk. Familiar management tools deliver an appliance-like experience that keeps environments in a continuously validated state.

Complete Day-0 and Day-1 tasks in up to

25 FEWER HOURS¹

Deploy a cluster in up to

75% LESS TIME²

Complete Day-2 tasks in up to

66% LESS TIME³



Lower operating expenses (OpEx).
Faster infrastructure changes.
Less complexity.

Learn more about Dell Private Cloud

Endnotes

¹14.25 hours total time to complete Day-0 and Day-1 tasks on a Dell Private Cloud appliance based on either VMware® solutions or Red Hat® OpenShift®, per data submitted by Dell Technologies, compared to 35.25 hours on a 3-tier cluster running VMware solutions and 39.25 hours on a 3-tier cluster running Red Hat OpenShift.

²1:52 (h:mm) total time to deploy software for a new cluster on a Dell Private Cloud appliance per log data from Dell versus 7:44 to deploy software for Dell™ ProDeploy Plus 2 x Dell™ PowerEdge™ R750, 2 x Dell PowerSwitch™ S5248F-ON, and Dell PowerStore™ 3200T per Principled Technologies, ["Using Dell ProDeploy Plus for Infrastructure can improve deployment times for Dell technology"](#). This comparison assumes a full 4:05 to plan, unbox, and wire the 3-tier cluster and no time to plan or handle hardware to stand up a new virtual cluster on the Dell Private Cloud appliance.

³3.75 hours total time to complete Day-2 tasks on a Dell Private Cloud appliance based on either VMware solutions or Red Hat OpenShift, per data submitted by Dell, compared to 9.25 hours on a 3-tier cluster running VMware solutions and 11.25 hours on a 3-tier cluster running Red Hat OpenShift.

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