



PLATINA

**BUILDING A FLEXIBLE AND
SCALABLE PRIVATE CLOUD**

Businesses are migrating applications and data away from the public cloud. According to IDC's 2018 Cloud and AI Adoption Survey of IT decision-makers, **80 percent said they had migrated either applications or data from a public cloud to an on-prem or private cloud in the last year.**

Now that the gloss is wearing from the shiny promise of the public cloud, organizations are increasingly migrating applications and data from public cloud providers (CSPs) to private or on-prem clouds. The drivers for these decisions include a range of issues.

5 CONCERNS ABOUT USING A PUBLIC CLOUD

1. Performance – It's obvious that the distance between users and cloud infrastructure becomes an issue when data is stored on the public cloud and compute workloads are performed in house. Latency becomes a significant problem for data-intensive applications as they transfer data in and out of VM-based public clouds.

Additionally, cloud applications can experience inconsistent performance. When application performance is mission critical, you want all resources dedicated to your application. Servers running virtualization SW, other services, and possibly other customer applications can consume resources from your application.

2. Data transfer costs – Depending on the CSP, the cost of moving data into and out of your public cloud can quickly mount up. You may also be charged for transferring data from one service to another within your CSP. Significant charges can be associated with moving data from one geographical region to another within your CSP.

3. Noisy neighbors – The “noisy neighbor” effect describes a tenant in a public cloud who affects other users' cloud performance by monopolizing resources like bandwidth, disk I/O, and CPUs.

4. Security – There are a variety of potential security issues, including:

- Public cloud providers choose the authentication, authorization, and access control processes and software.
- Multitenancy exploits may allow one tenant or hacker to view all the data or assume the identity of another client.
- Shadow IT – CSPs make it very easy to provision new services. The on-demand self-service provisioning features of the cloud enable an organization's personnel to add services from the CSP without IT knowledge or consent.

5. Data management and ownership – Because data is stored over a number of different devices within the CSP's infrastructure, the consumer is unable to verify that their data has been securely deleted. CSPs may include clauses in their SLAs claiming ownership of client data. This protects CSPs legally and also allows them to create another revenue stream by selling the data.

CHALLENGES WITH MANAGING A PRIVATE CLOUD

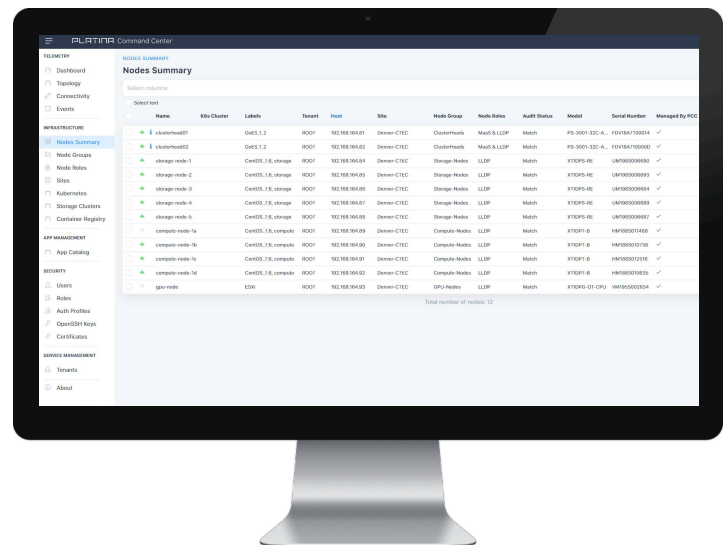
Because of their issues with public clouds, many CIOs are looking at alternatives, including modernizing their on-premises infrastructures. But these CIOs express concern about the challenges of modernizing their legacy infrastructure:

1. Human skill and expertise – Physical and virtual infrastructures are complex. Understanding (and supporting) the interdependencies between all technologies involved takes great skill, and hiring experts for each technology therein can balloon head count budgets to atmospheric levels.

2. Migration complexities – To successfully migrate infrastructure while minimizing the impact on the business, CIOs need to understand the scope, time, and strategy of their transition.

3. Assess modernization costs – CIOs need to understand and manage the cost of every dependency in a complex architecture.

The Platina Command Center is a single-pane-of-glass management system for policy management, visibility and insight across clustered pools of compute, storage and networking resources.



SUCCESSFULLY MODERNIZING LEGACY INFRASTRUCTURE WITH A TURNKEY SOLUTION

To create and manage on-premise clouds, CIOs and their teams need solutions that reduce complexity.

These solutions enable IT teams to manage unconfigured heterogeneous compute, storage, and networking devices into workload-ready resources. IT assets are economically deployed, autonomously managed, and quickly rolled out to geographically disparate locations, ready for immediate deployment of applications or services.

Platina offers the industry's first optimized, turnkey solution to help IT organizations deploy and manage clusters. The solution streamlines and automates operations within and across clusters to enable a flexible and highly scalable private cloud.

With Platina, IT teams dramatically simplify operations by provisioning unconfigured compute, storage, and networking resources as useful, workload-ready clusters. IT can rapidly roll out clusters and flexibly instantiate and manage them as multi-tenant workload environments ranging from bare metal to container-based microservices.

Platina provides the only automated solution for infrastructure provisioning and cloud resource lifecycle management starting from bare metal resources.

**LEARN HOW PLATINA SYSTEMS
CAN HELP YOU BUILD YOUR
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