

INSIGHT

Top 5 Factors To Consider When Evaluating Cloud Technologies



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What top factors should you evaluate when it comes to hosting servers and applications in the cloud, versus keeping them on-premise?

In this whitepaper, we are analyzing some key factors to evaluate on-premise and cloud infrastructure designs. Knowing the differences between these two options in the areas of security, cost and scalability will ensure you make the right decision for your organization.



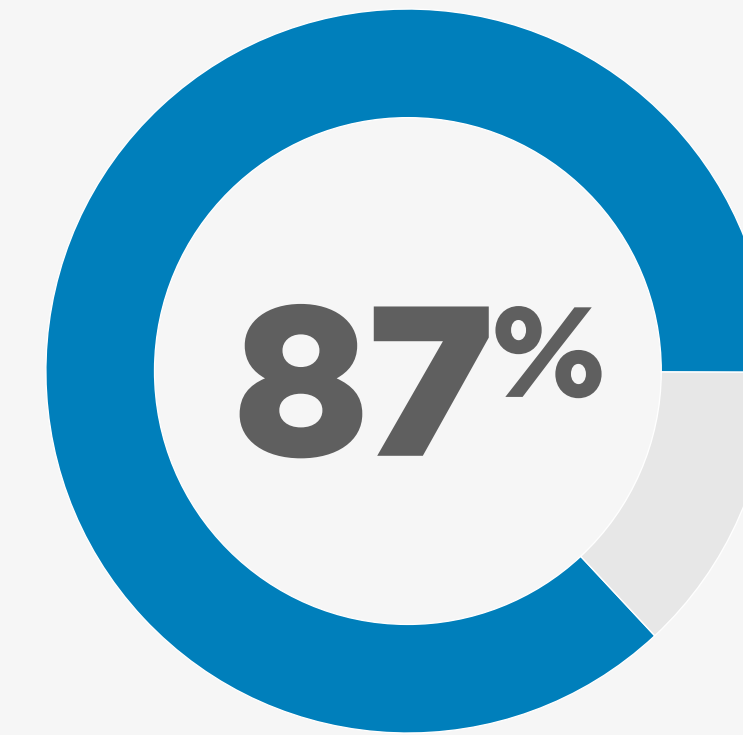
“In most situations, the decision to move to cloud services is a complex one. There are **multiple variables** in the equation and the impact of the choice varies from organization to organization.”

Brad Hettenhausen
Vice President, Strategic Services
GadellNet

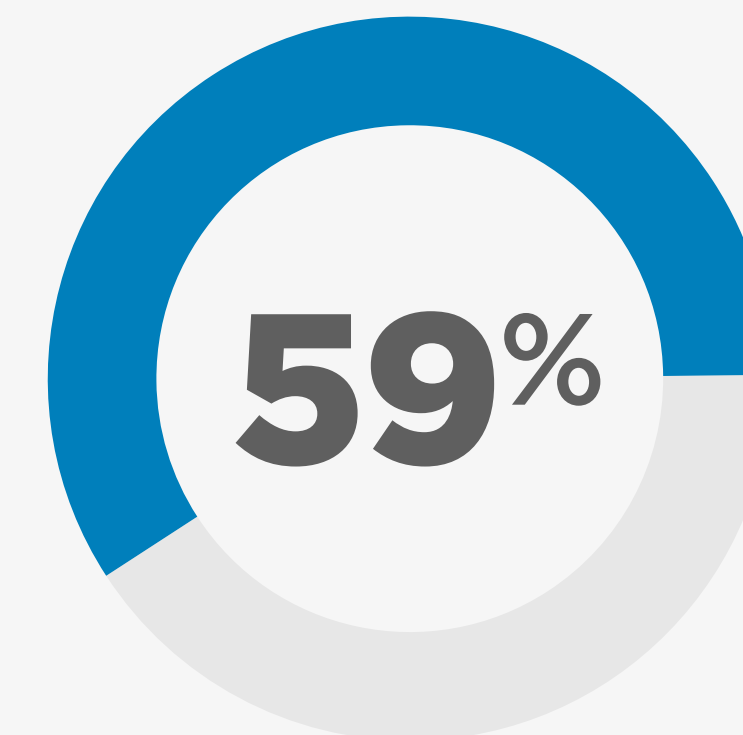
According to the Flexera 2020 State of the Cloud Report*, 87% of enterprises have a hybrid cloud strategy and 59% of respondents expect cloud use to exceed plans due to COVID-19.

So, what are among the biggest drivers?

The biggest driver among these companies is to optimize cost savings, but responders also noted the importance of better financial reporting, automated policies for governance and those companies that are implementing a cloud-first strategy.



Enterprises with a hybrid cloud strategy*



Enterprises who expect cloud use to exceed plans due to COVID-19*



Understanding The Industry

The top three public cloud providers are Amazon Web Services (AWS), Microsoft Azure and Google Cloud Services.

Azure is narrowing the gap with AWS in both the percentage of enterprises using it and the number of virtual machines (VMs) enterprises are running in it**

Microsoft invests over \$1 billion in cloud security each year.

**[Right Scale, State of the Cloud report](#)

The Top 5 Evaluation Factors



For some static and stable situations, on-premise infrastructure may represent a lower cost in the long run. However, cloud platforms offer more scalability and resiliency options for companies that have dynamic and changing needs.

In certain cases, a hybrid approach utilizing both environments together can be the most effective approach.



Evaluation Factor: Cost

On-Premise

ADVANTAGE

Can be less expensive during the life of the servers (5+ years)

DISADVANTAGE

Significant upfront hardware and software costs means deployment can be costly

Cloud

ADVANTAGE

Predictable subscription pricing. No upfront hardware/software costs

DISADVANTAGE

More complex long-term planning may be necessary to justify

Key Questions

Is it more important to control upfront costs or long-term costs?

Would you rather see IT as an operating expense or a capital expense?

Do you see big changes to your business operations in the next 18 months?



Evaluation Factor: Security

On-Premise

ADVANTAGE

Data remains local, giving organization full control of the physical hardware

DISADVANTAGE

Requires dedicated and knowledgeable resources (either full-time employees or outsourced)

Adds risks if organization lacks appropriate expertise

Cloud

ADVANTAGE

Delivers superior data security

DISADVANTAGE

Requires capable expertise to support

Key Questions

Do you have a quality, secure data closet on-premise?

Do you have a qualified staff with the rights tools and processes to secure your environment?

Do you have any **specific compliance regulations** (NIST, HIPPA, SEC, SOC II) to consider?

Evaluation Factor: Agility & Scalability



On-Premise

ADVANTAGE

Physical control over the hardware means upgrades can be tightly controlled

DISADVANTAGE

Must plan far in advance. Small mistakes in hardware can cause significant outages

Scalability is difficult and costly. You could be stuck with excess infrastructure.

Cloud

ADVANTAGE

Cloud resources can be rapidly adjusted to accommodate specific demands

DISADVANTAGE

Monthly recurring subscription or management costs can escalate if cloud infrastructure is not properly managed

Key Questions

How much change is predicted and planned for the future?

Will the organization be scaling up or scaling down in the next 3 years?

Evaluation Factor: Line of Business Applications



On-Premise

ADVANTAGE

Some line of business applications are still better suited to stay on-premise

DISADVANTAGE

Redundancy and scalability for applications may be limited or costly

Cloud

ADVANTAGE

Many line of business applications have moved to cloud-native platforms and no longer require server infrastructure

DISADVANTAGE

Where bandwidth constraints are a concern, some line of business applications are not well suited for cloud-server hosting

Key Questions

- How many line of business applications are running in your environment?
- Do your software vendors support cloud-infrastructure?
- How much bandwidth does each application require?

Evaluation Factor: Resiliency



On-Premise

ADVANTAGE

Can be cost-effective when 99% uptime is not a concern

DISADVANTAGE

Costly to build out if 99% or greater uptime is required

Cloud

ADVANTAGE

Much easier and more cost-effective to build redundancy for increased uptime

DISADVANTAGE

Ultimately, the provider (Azure, AWS, Google) is responsible for uptime

Key Questions

Does your on-premise infrastructure include redundancy onsite and offsite?

Does your cloud infrastructure include redundancy onsite and offsite?

Have you developed and tested disaster recovery procedures?

Still have questions? GadellNet's team of Strategic Consultants can help you decide which option makes the most sense for your organization.

We can craft the right cloud migration, on-premise or hybrid solution for you. Our team is focused on synthesizing all of this information and guiding you in the right direction.

As a Microsoft Gold Partner with Cloud Platform Competency, we understand what it takes.

Contact us today at sales@gadellnet.com.



“We can help you lay out the potential paths, with justification for the recommendations. **We help clients understand the path forward.** Our team has executed a wide range of cloud migration efforts and are always on top of the latest capabilities.”

Joe Gadell
Chief Technology Officer
GadellNet