

Choosing the Right Strategy

Cloud and Virtualization Workshop

We've Talked About...

- Cloud services like:
 - Compute, Software as a Service (SaaS), Infrastructure as a Service (SaaS)
 - Object storage, storage, containers, Infrastructure as code, more
- Virtualization
- Proxmox as a management framework over hypervisors
- Migration of VMs
- File storage, file systems, LVMs, networked storage, Ceph, Linstor
- Cloud-Init
- Terraform and Ansible
- Docker and Kubernetes
- Cloud security and networking
- Proxmox networking
- Physical storage
- Cloud management and cost
- Monitoring and metrics
- ... and, more...

What to Use?

With any virtualisation strategy (local or cloud):

- Answer the question, “Our goal moving to the cloud is...”
- What is your goal?
 - ✓ Will moving to the public cloud assist your organization? Will you:
 - Save money
 - Improve security
 - Improve reliability and stability
 - Simplify your work loads
 - What else?
- ✓ Will creating a local cloud solution (Proxmox and Linstor for example)
 - See above ☺

Considerations (Cloud)

All of these are driven by:

- Location of service
- Governmental restrictions
- Your organization type

And, of course:

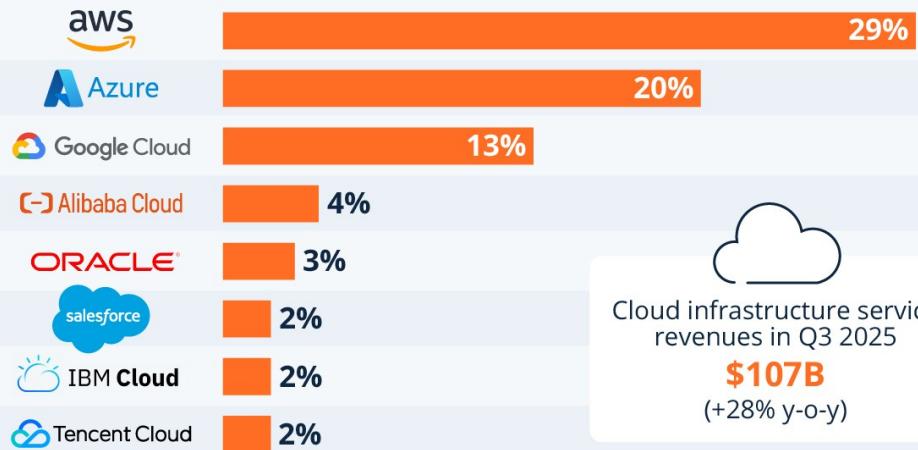
- Services provided and your need

There are others...

- Linode
- Digital Ocean
- VULTR
- OVH

AWS Stays Ahead as Cloud Market Accelerates

Worldwide market share of leading cloud infrastructure service providers in Q3 2025*



Cloud infrastructure service revenues in Q3 2025
\$107B
(+28% y-o-y)

* Includes platform as a service (PaaS) and infrastructure as a service (IaaS) as well as hosted private cloud services

Source: Synergy Research Group



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Considerations Local Cloud

What is your goal?

- We may have reviewed compute options, like Docker (Kubernetes is another)
 - Can you do this locally or in the public cloud?
- We have reviewed Proxmox as a virtualization environment
 - Showed how to select and create software-defined storage (SDS) platform that offers object, block, and file storage – Ceph and Linstor.
- Are you working on compute solutions that run reliably? Services to customers that are more reliable, easier to maintain, or something else than what you currently provide?
- Is public cloud not an option or not wanted for some reason?
- Would a local cloud improve your organization's overall stability, reliability, cost, other?

What About Doing Nothing?

Organization win vs. cost

- Perhaps a public cloud or practical hybrid method is expensive
- Is the cost worth it for your organization
- What if you do nothing? What if you have failure:
 - Downtime
 - Lost data
 - Unreliable equipment needing replacement

One item that can be missed, what about your work life experience?

In Conclusion

No perfect answer for all. Goals of this workshop include:

- Present possible solutions in the public cloud or built locally options
- Present what might be benefits of using some of these
 - Better security
 - Better data manipulation and use
 - Less overall cost?
 - Improvement of worklife
 - Improvement of stability, reliability, continued cost, supporting your organization's purpose
- Help present what is involved to implement this to help you decide if it makes sense and/or has needed value to your organization.

**Questions?
Suggestions?
Comments?**