

secunet

secunet **Cloud Solutions**

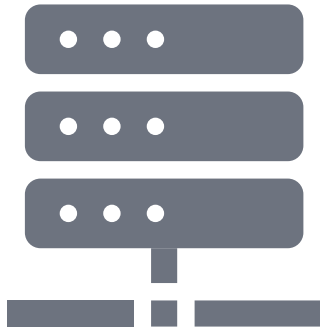
Trustworthiness and Digital Sovereignty
in the Cloud

it-sa 2022

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A tough choice?



or



the **sovereignty** but also
the **overhead & inadequacies**
of on-premises

the **convenience** but also
the **communality & dependency**
of the public cloud

It's more than just On-Premises or Public Cloud!

Private/Intern



Hybrid/Mixed



Public/Extern

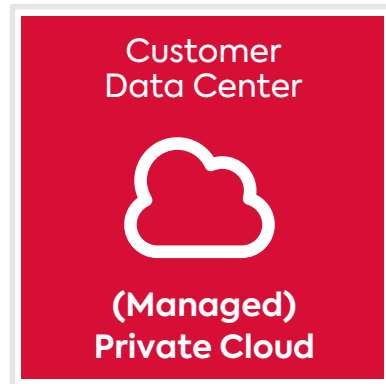
IT resources are provided as a service via the intranet (internally in own network behind firewall)

IT provisioning is provided as a service (both internally and externally)

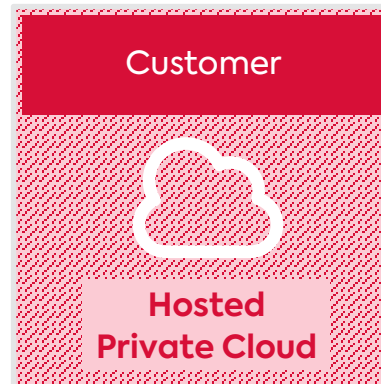
IT resources are provided "as-a-Service" via the Internet (solely externally)



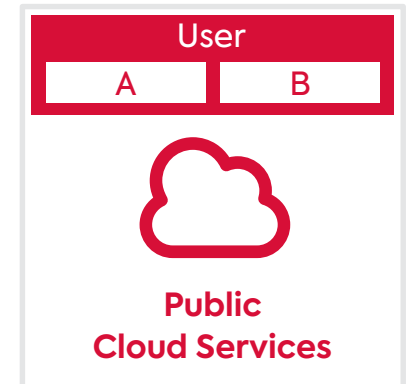
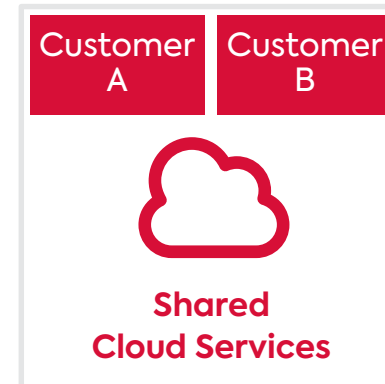
Self hosted and operated, on-premises



Self hosted and self operated or by a third party, (Managed) on-premises

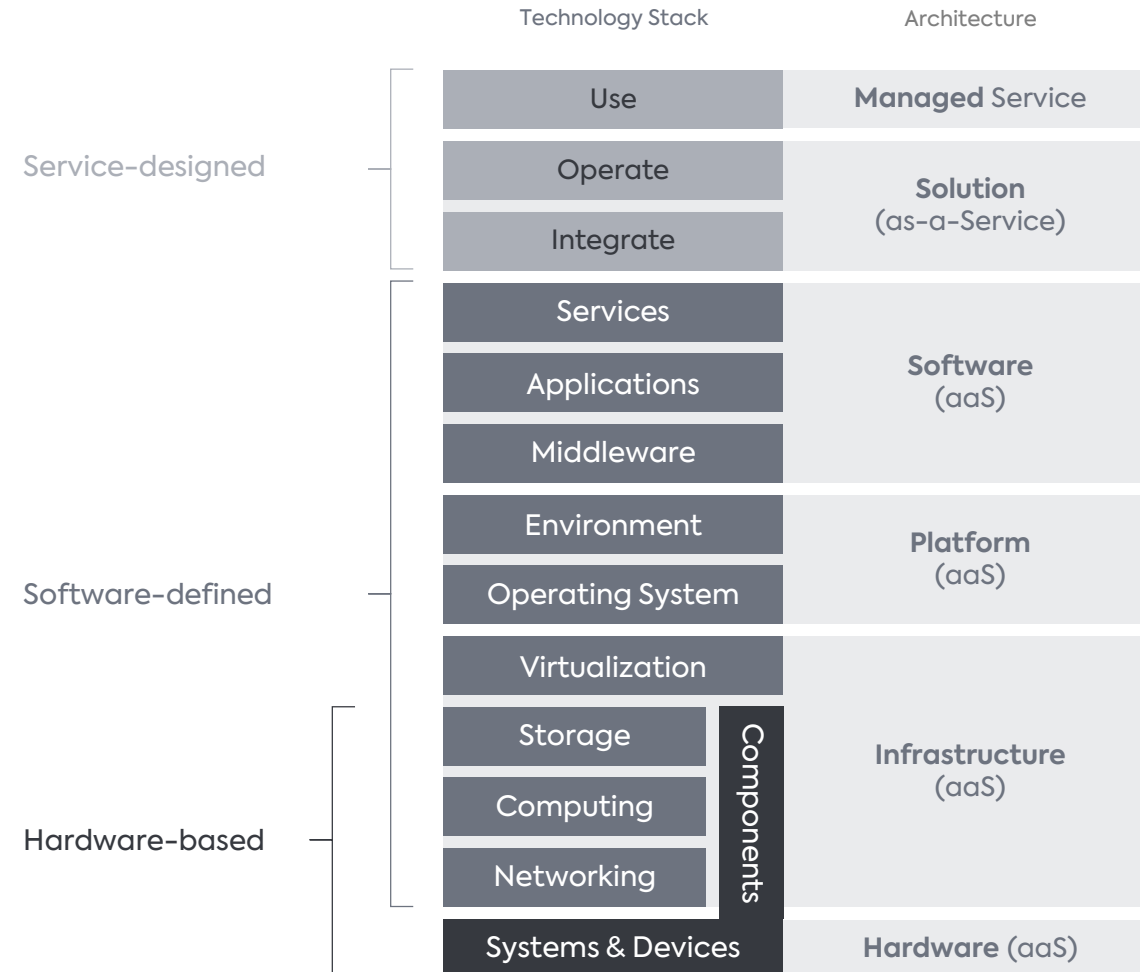


Hosted and operated by third parties



How? With the right cloud technology stack (parts)!

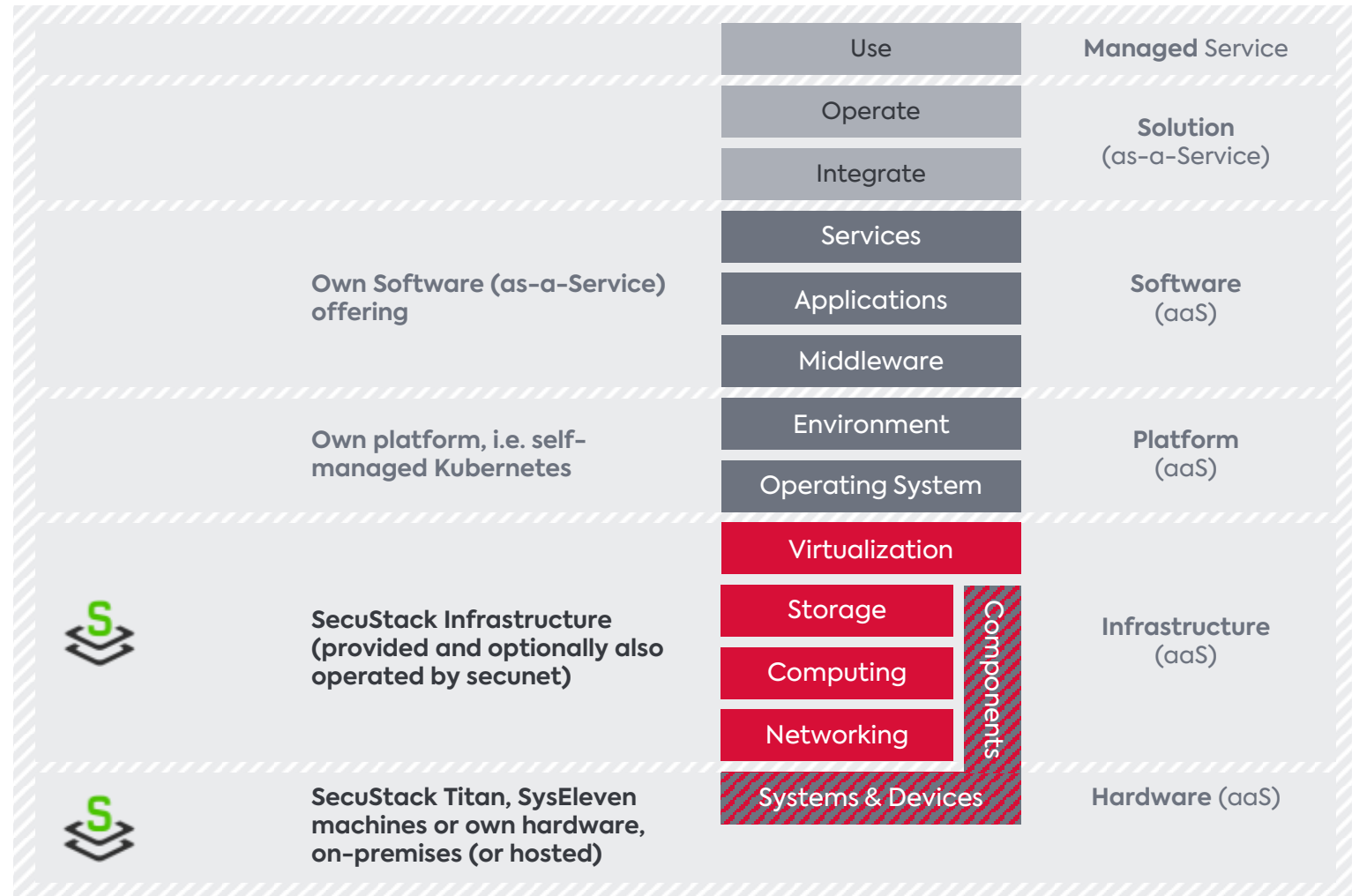
- Every digital solution such as an application or a project **depends on a technology stack**.
- A technology stack is the **collection of all the technology required** to make “something digital” work.
- This technology can be modelled as an architecture – commonly **a vertical build of layers** (a “stack”).



Example 1: Infrastructure as a Service

Infrastructure for cloud-native platforms

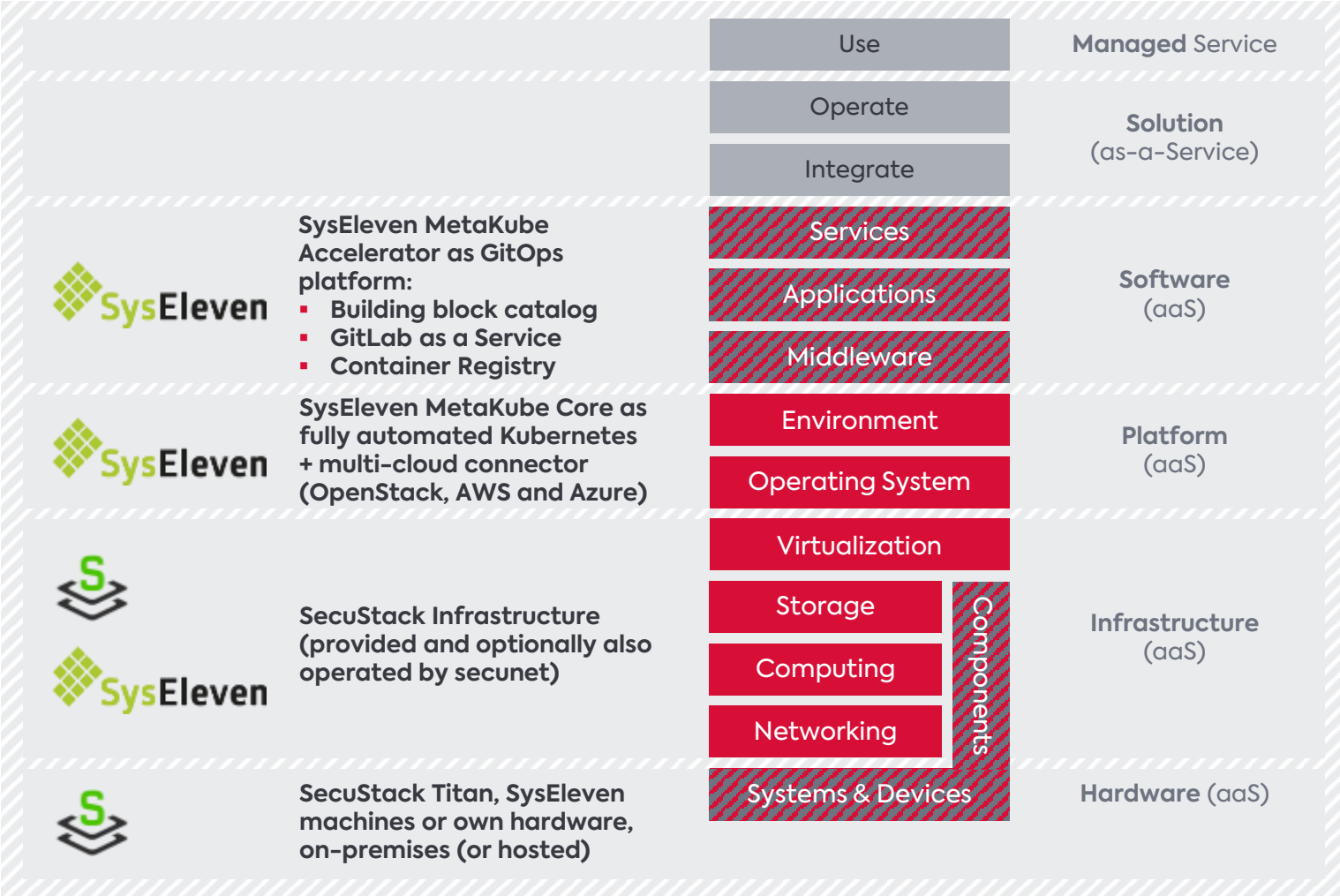
IaaS solution based on SecuStack, a security hardened Open Stack – the open source cloud operating system.



Example 2: Platform for Software as a Service

Multi-cloud platform

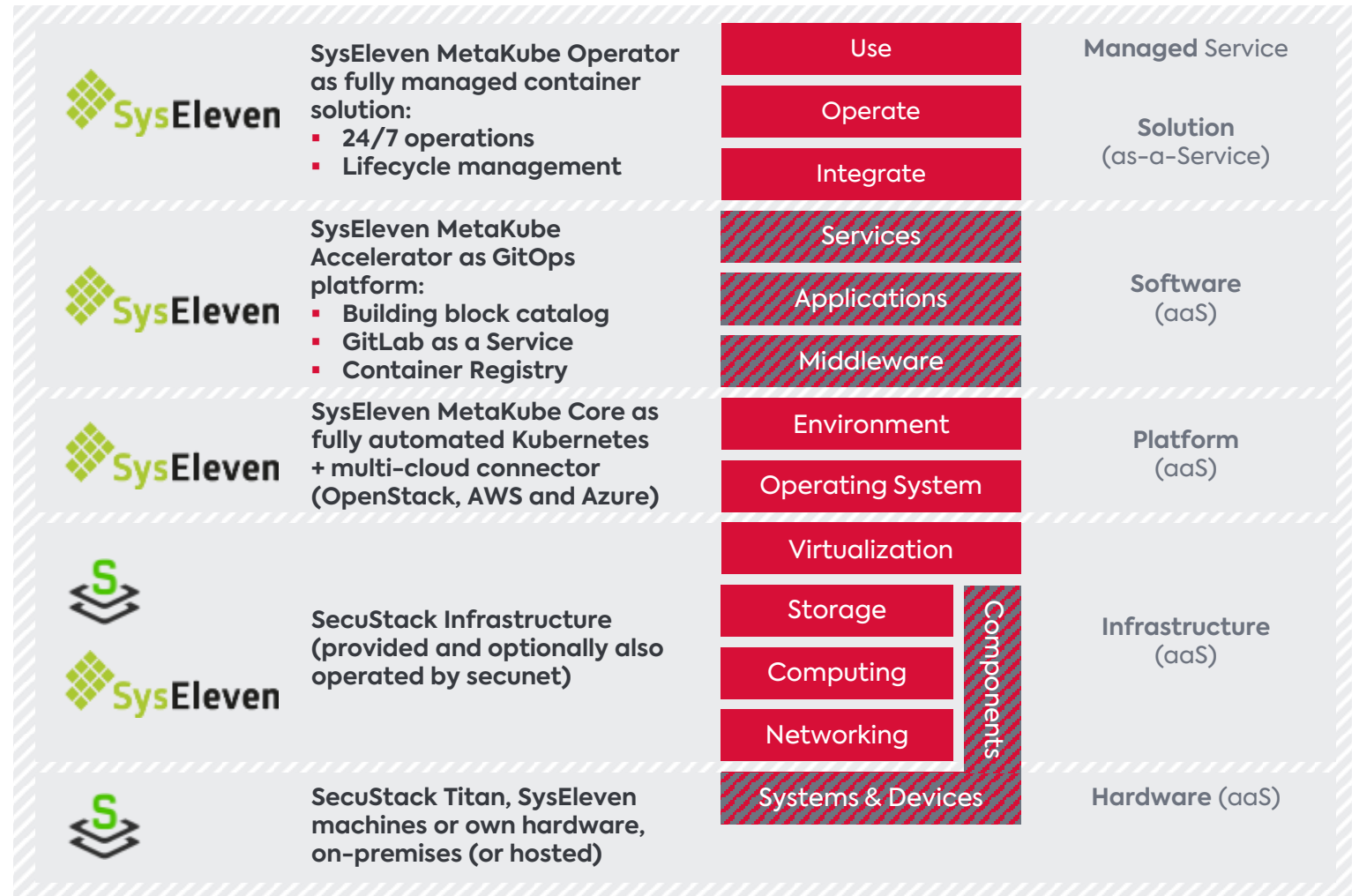
Managed Kubernetes multi-cloud platform with GitOps building blocks, lifecycle management and best practices.



Example 3: Managed Private Cloud

Best practice private cloud

Fully managed private cloud with 24/7 operations, support and lifecycle management.



Core aspects



Trustworthy

- Developed with a strong focus on and track record in security and (official) trust
- Being certified according to highest security standards



Sovereign

- Less dependence on individual market players
- Expert implementation of matured (open-source) technology



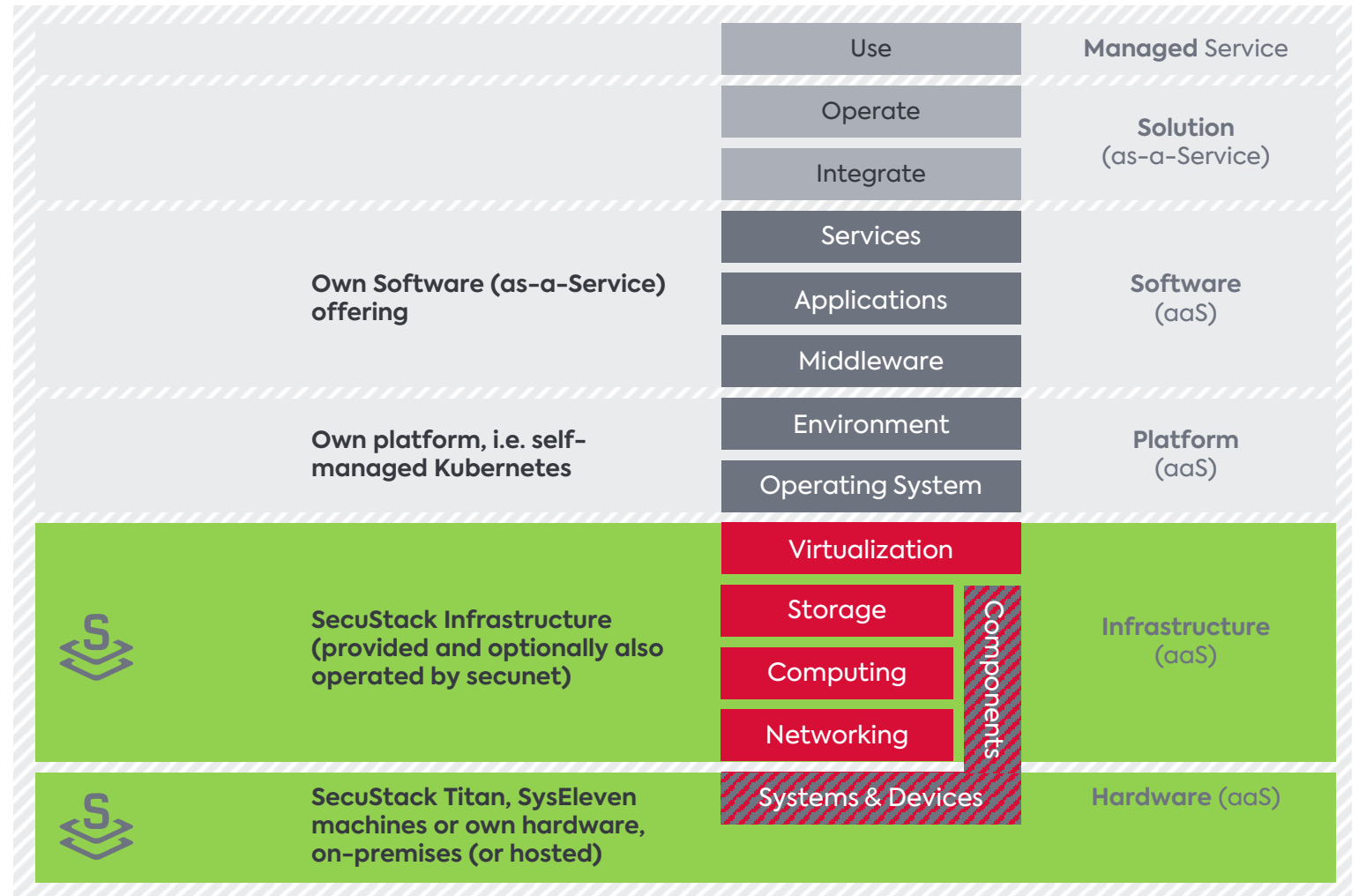
Perfect Fit

- Multiple operating modes (including multi-cloud)
- Compliant with relevant current and future regulations

Use Case: Trustworthy, sovereign and fitting IaaS

Infrastructure for cloud-native platforms

IaaS solution based on SecuStack, a security hardened Open Stack – the open source cloud operating system.



Let's talk: (Managed) Private Cloud with SecuStack

Private/Intern



Hybrid/Mixed

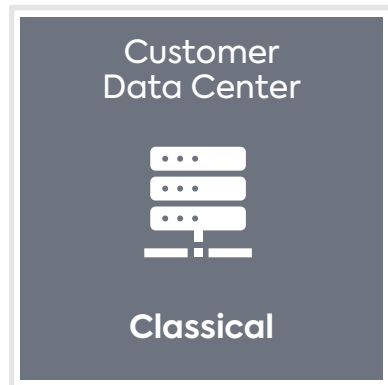


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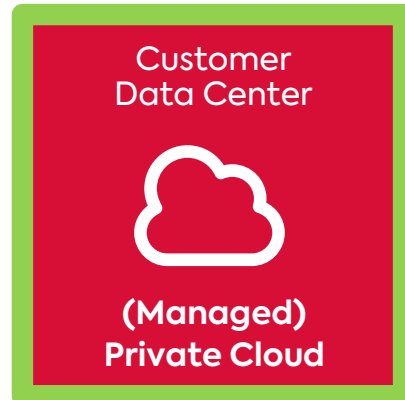
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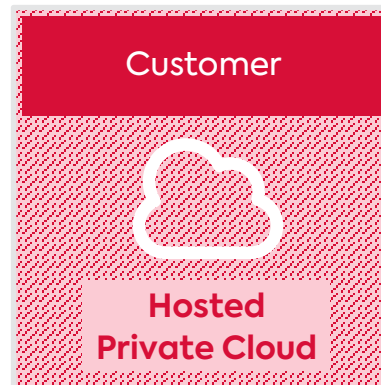
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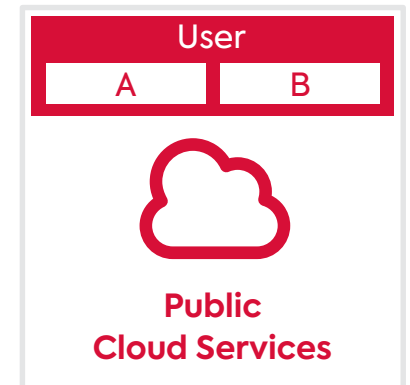
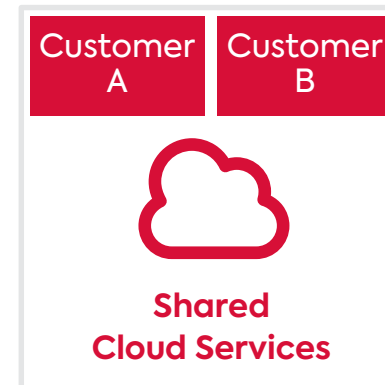
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Hosted and operated by third parties



Ready-to-use cloud solution

- **Pre-configured** cloud solution combining hardware and software
- Comes with highest security **standards**
- Multiple mechanisms for **tenant separation**
- Compatible to **OpenStack API**
- **Scales** to meet specific requirements
- Optional: **Offline operation mode** for the most critical applications
- Optional: **Increased energy efficiency** through liquid-cooled hardware and recovery of waste heat

In cooperation
with:



Contact me for
general
cloud technology &
solution talks!



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Cloud Solution Architect

Contact me for
specific
Infrastructure-as-
a-Service projects!



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Director Cloud
(SecuStack)