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Leveraging the Cloud

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Cloud Background

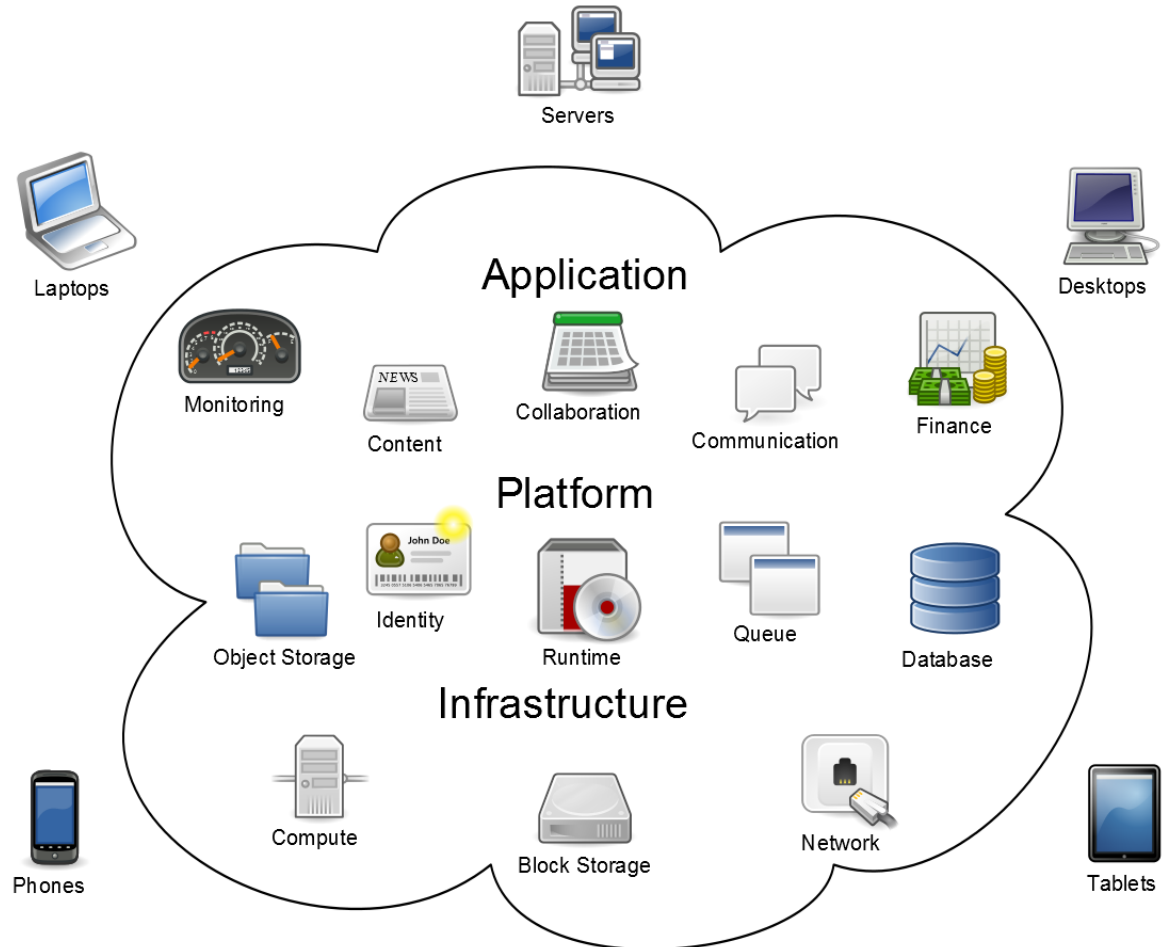
▶ **Cloud Computing: delivery of computing requirements as a service**

▶ **Three levels:**

▶ **Infrastructure (IaaS)**

▶ **Platform (PaaS)**

▶ **Software / Application (SaaS)**



Source: Wikipedia

Cloud Background



▶ Clear Advantages

- ▶ **Scalability:** virtually limitless computing resources
- ▶ **Universal Access:** use it anywhere with an internet connection
- ▶ **Reliability:** near 100% uptime

▶ Not so Clear...

- ▶ **Performance:** cloud wins in some scenarios, not others
- ▶ **Security:** securing your own infrastructure vs. trusting theirs
- ▶ **Cost:** not as simple as trading servers for a subscription
- ▶ **Lock-In:** what happens when you are ready to leave?
- ▶ **Updates:** automatic by vendor, but is that what you want?
- ▶ **Customization:** what if it doesn't match your processes?
- ▶ ... and whose data is it?

Aras Cloud Announcements



▶ **Connected Cloud**

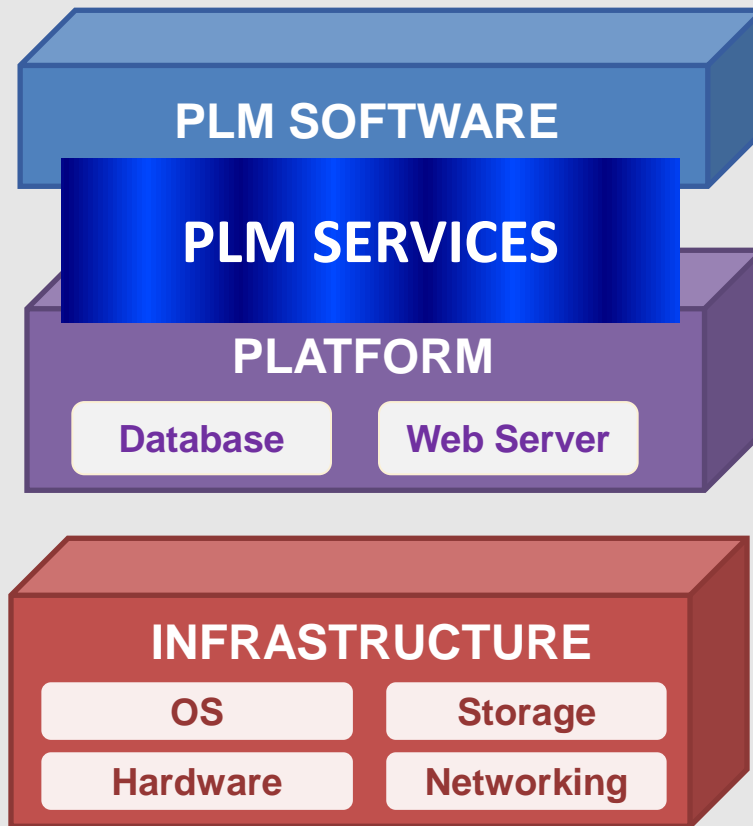
- Aras strategy announced at ACE 2011
- Embedding 3rd party cloud services into the user interface and workflow processes of the PLM system
- Seamlessly leverage data, information, analytics and services from public and community cloud sources

▶ **Aras Spectrum - Cloud PLM for Microsoft Azure**

- ACE 2012 announcement
- New Aras product - turnkey PLM Platform as a Service
- A development collaboration with Microsoft to deliver a massively scalable PLM environment

Introducing... **Aras Spectrum**

Cloud-based Enterprise PLM



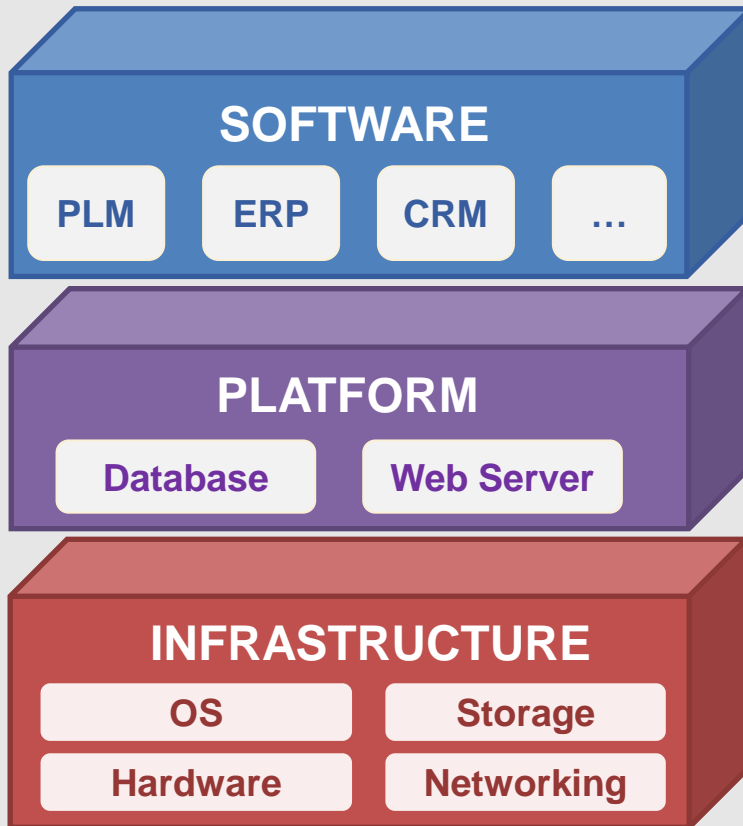
- ▶ **New Aras product**
- ▶ **Complete Cloud PLM Software as a Service**
- ▶ **Complete Cloud PLM Platform as a Service**
- ▶ **Best of current cloud ideas, with an Aras difference that provides additional benefits, less risk and fewer limitations**

Cloud
On Premise



Enterprise Software on the Cloud

The Promise



- ▶ Everything is cloud-deployed, integrated, secure & reliable
- ▶ Instant On
- ▶ Simple, out-of-the-box applications that match your requirements and processes

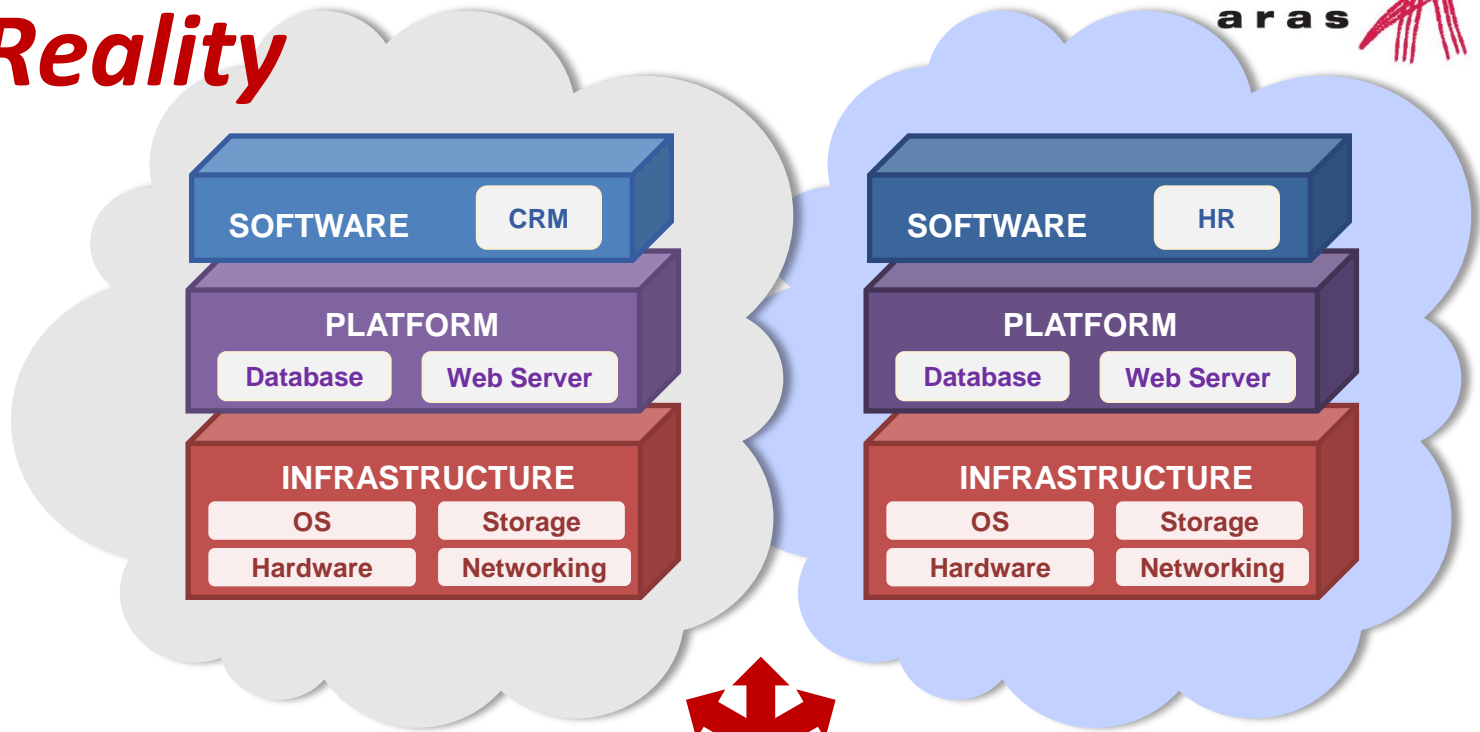
Cloud

On Premise



Enterprise Software on the Cloud

The Reality

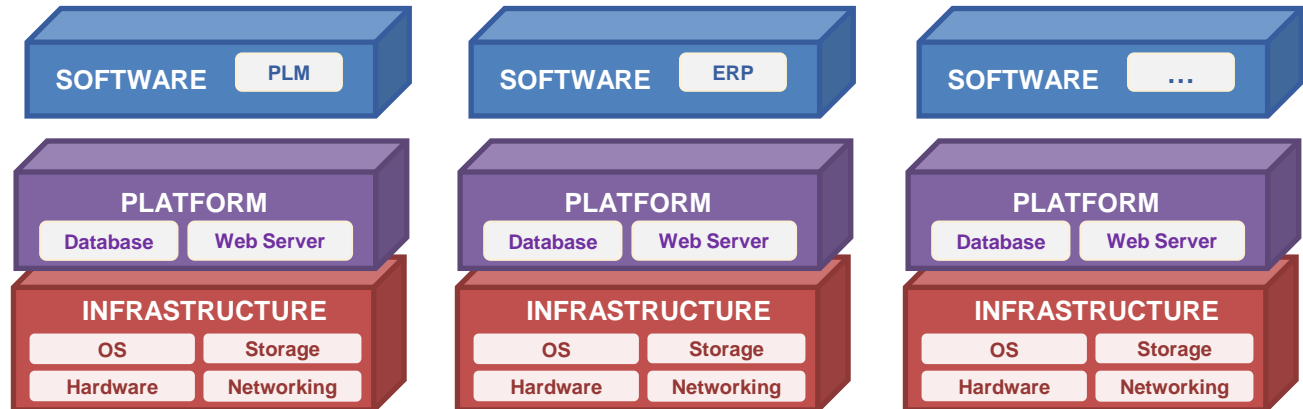


Cloud

On Premise



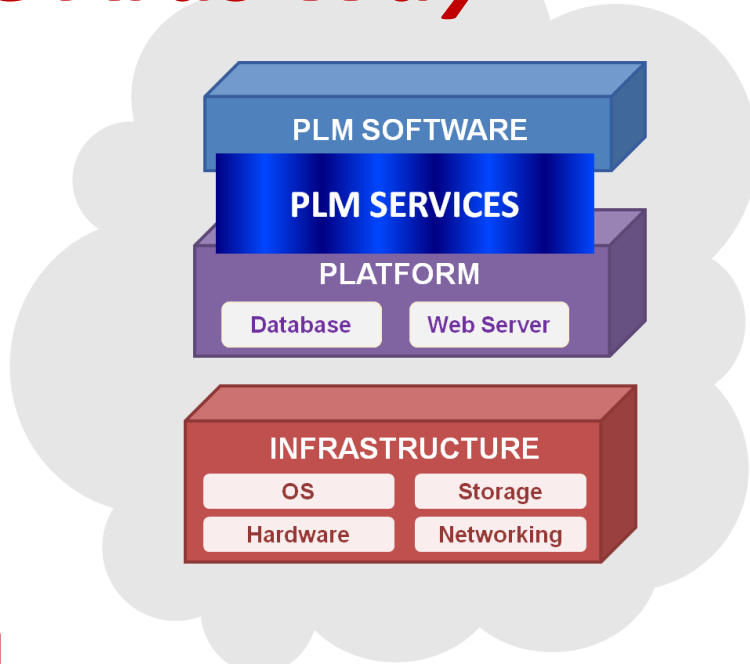
- ▶ **Mix of clouds and on-site; integration and customization is required**



Aras Spectrum: PLM on the Cloud



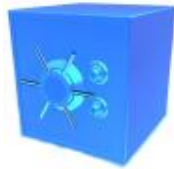
The Aras Way



▶ On Premise File Vault

Cloud

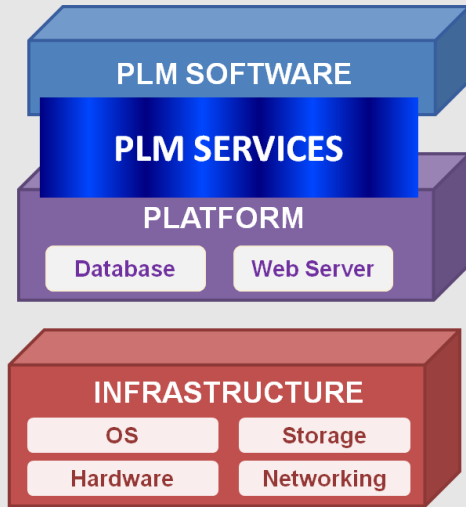
On Premise



Aras Spectrum: PLM on the Cloud

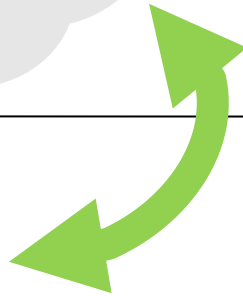
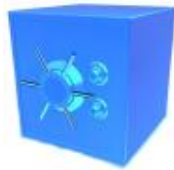


The Aras Way



► On Premise Vault with
Cloud Replication

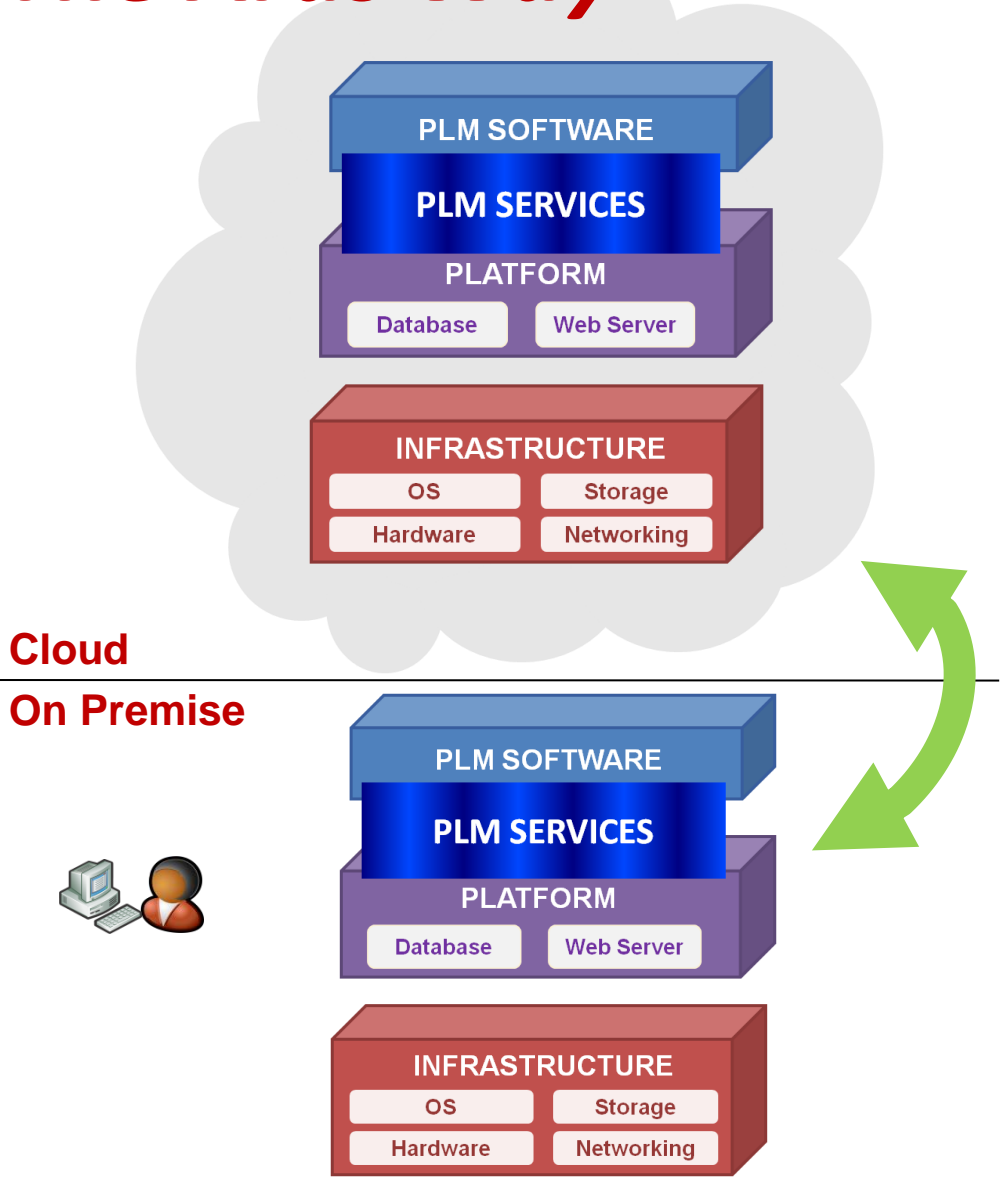
Cloud
On Premise



Aras Spectrum: PLM on the Cloud



The Aras Way

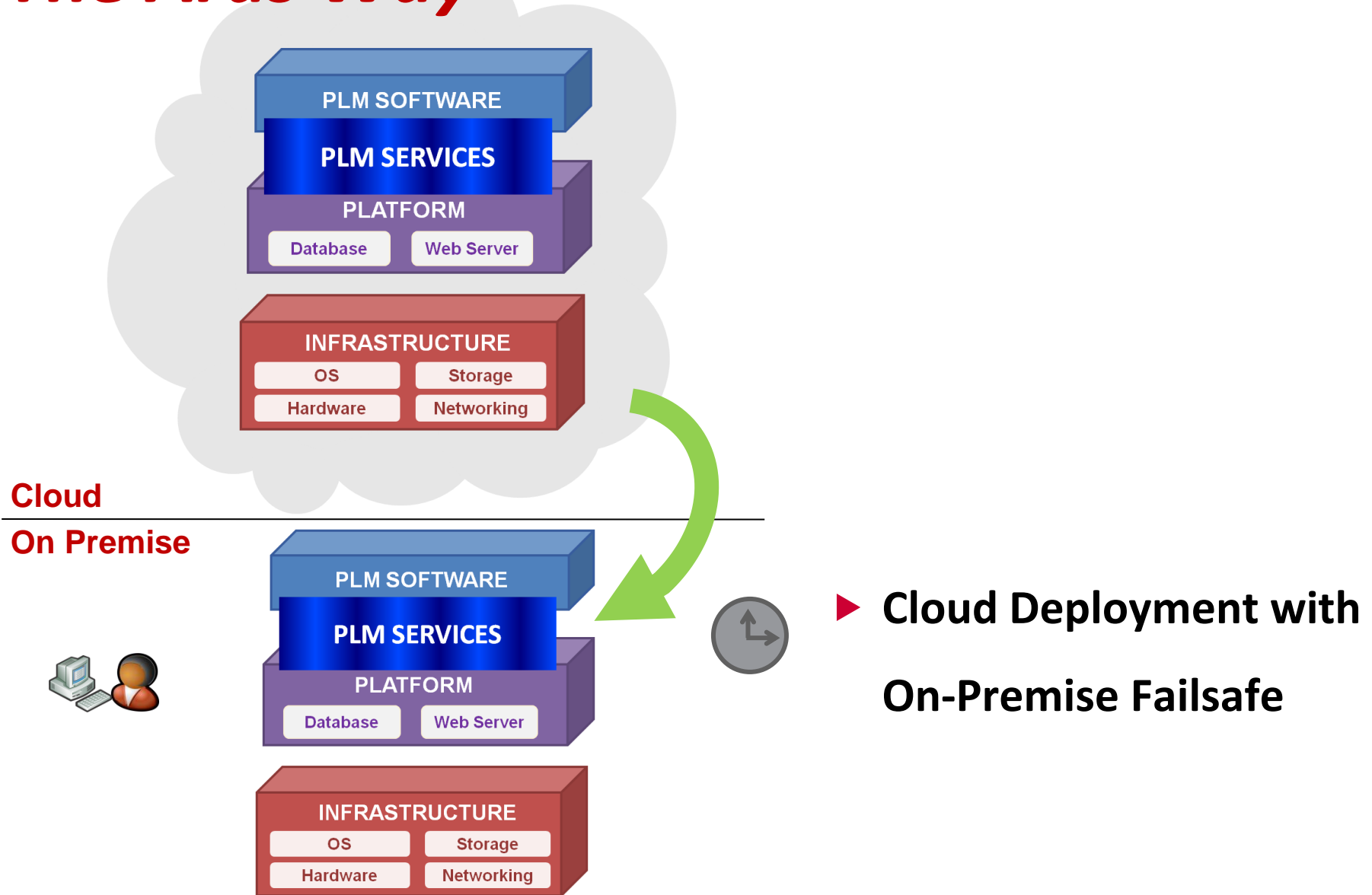


► **Deploy On-Premise with Cloud Mirror**

Aras Spectrum: PLM on the Cloud



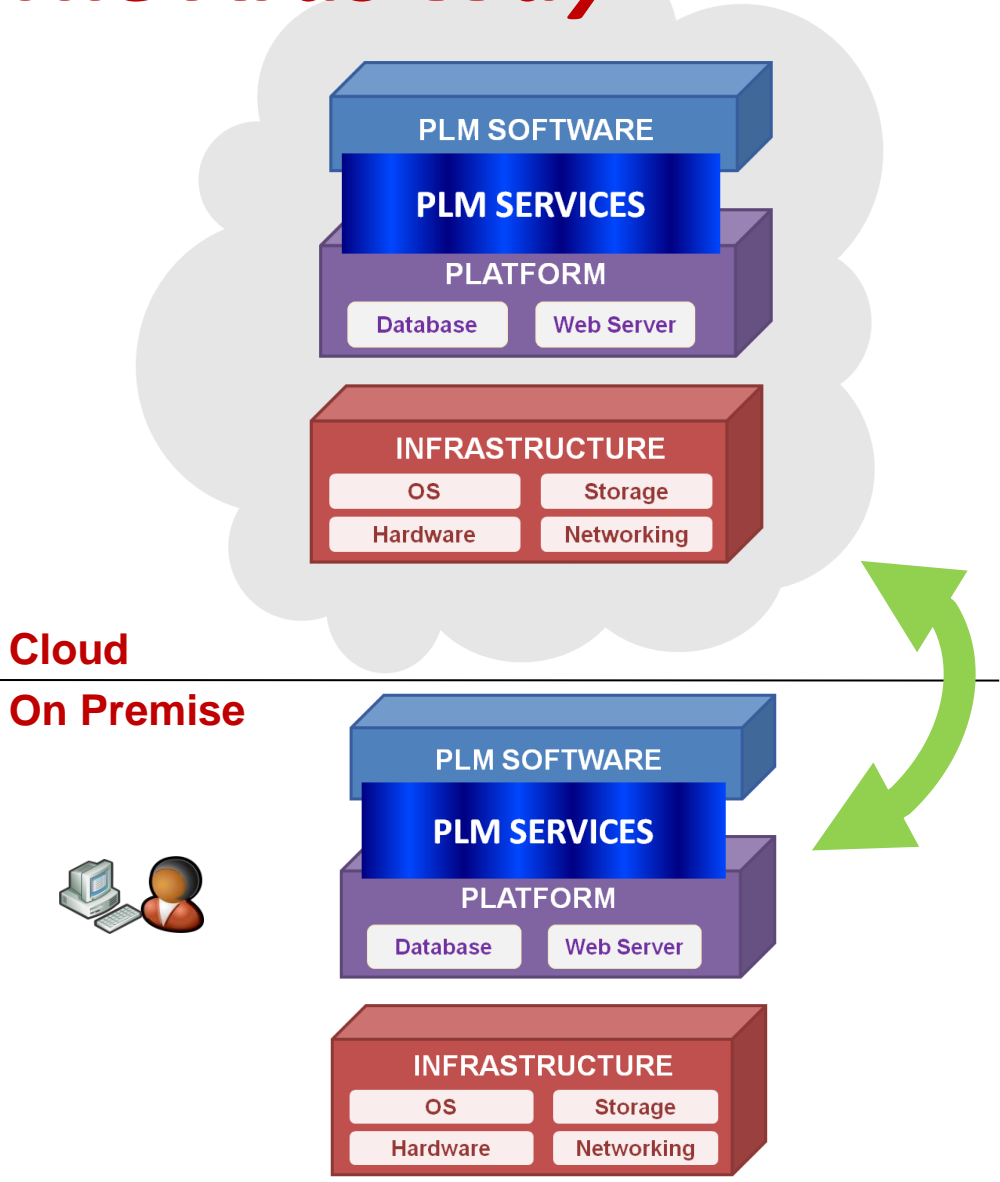
The Aras Way



Aras Spectrum: PLM on the Cloud



The Aras Way



► Dual Deployment with Mixed Services

Aras Spectrum

Both SaaS and PaaS



Software as a Service (SaaS)

- Out of the box PLM system on the Microsoft Azure Cloud
- Instant On
- PLM business applications based on industry standards (ISO, PMI, CMII, etc.)

PLM Platform as a Service (PaaS)

- Full Aras Innovator modeling environment for customization
- Leverages what Aras has always done best – modeling of complex business processes and data
- All Aras applications can be added to your Aras Spectrum environment (AppStore-style)

Aras Spectrum

Performance



- ▶ **Microsoft and Aras are architecting Aras Spectrum to run across all the world-wide Azure data centers**
- ▶ **Massive scalability capabilities for millions of concurrent users with big data workloads**
- ▶ **Configuration options enable CAD Vaults to remain on-site to optimize check-in / check-out and viewing performance**

Aras Spectrum

Eliminate Lock-In



- ▶ **Aras has always been committed to open APIs, transparent data models, and ability to access your data**
- ▶ **Aras Spectrum is built from the same Aras Innovator technology as the enterprise open source distribution**
- ▶ **You can easily move your data back and forth between the cloud and any on-premise deployment of Aras Innovator – as simple as backup and restore**

Aras Spectrum

Customization and Updates/Upgrades



- ▶ **Real world PLM environments require customizations and integrations**
- ▶ **Aras maintains parallel Versions levels in Azure**
- ▶ **Customers choose which Version to run and when to upgrade and take updates**
- ▶ **Deploying changes still requires functional testing, optimization and validation**
- ▶ **Development, test and production environments available**
- ▶ **As with on-premise, you customize and Aras upgrades – included in the Subscription**

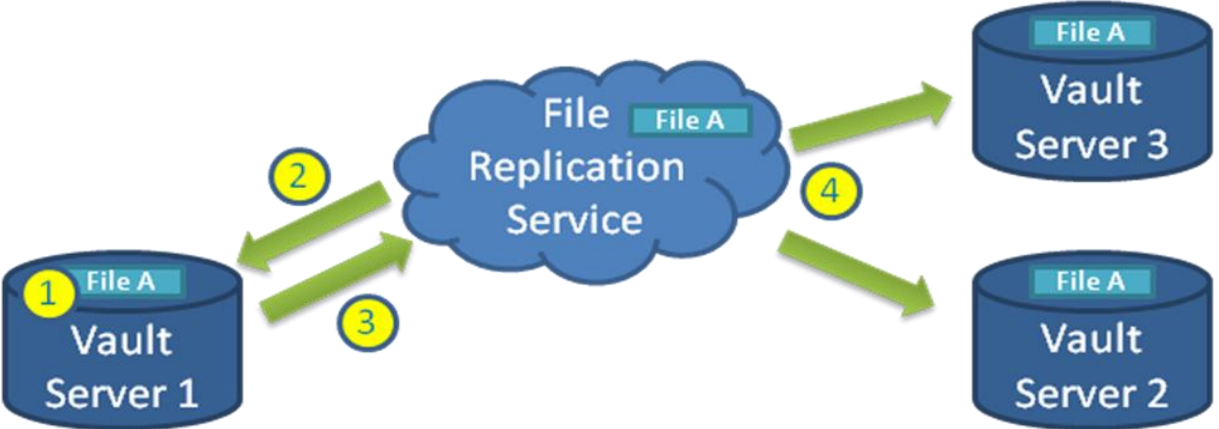
Connected Cloud Services



Managed File Exchange with Trubiquity



Cloud-Based Replication with Ilesfay



Leveraging the Cloud



▶ The cloud is not a panacea

- Solves some complexities, introduces others
- Migration of existing legacy systems to the cloud will take time
- Cloud primarily addresses IT issues, not PLM process complexity

▶ Options are available to get started

- Don't throw away your existing infrastructure
- Use the cloud for new implementations or to extend existing PLM
- Start using cloud services right away

▶ Aras has you covered

- Full cloud deployment, hybrid/mixed deployments, cloud services
- We'll help you get to the cloud when it makes sense for you

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