



3DEXPERIENCE ON THE CLOUD

PRIVATE CLOUD VS PUBLIC CLOUD

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Introduction to Cloud Computing

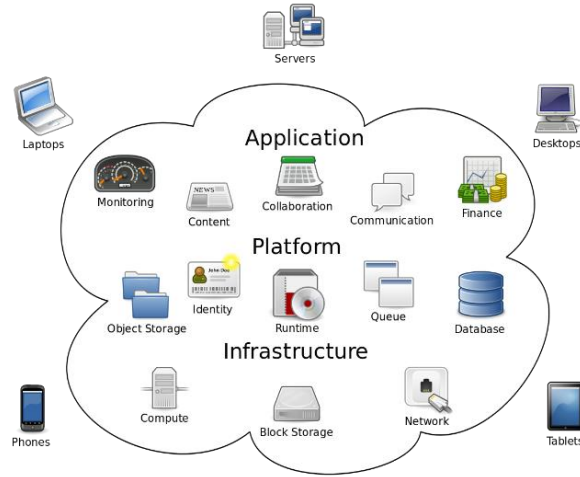
Cloud computing is the delivery of various hardware and software services over the internet, through a network of remote servers. These remote servers are busy storing, managing, and processing data that enables users to expand or upgrade their existing infrastructure.

The capabilities and breadth of the cloud are enormous. The IT industry broke it into three categories to help better define use cases.

a) Software as a Service (SaaS):- Software is owned, delivered and managed remotely by one or more providers. To start, Software-as-a-Service, or SaaS, is a popular way of accessing and paying for software. Instead of installing software on your own servers, SaaS companies enable you to rent software that's hosted, this is typically the case for a monthly or yearly subscription fee. More and more CRM, marketing, and finance related tools use SaaS business intelligence and technology, and even Adobe's Creative Suite has adopted the model.

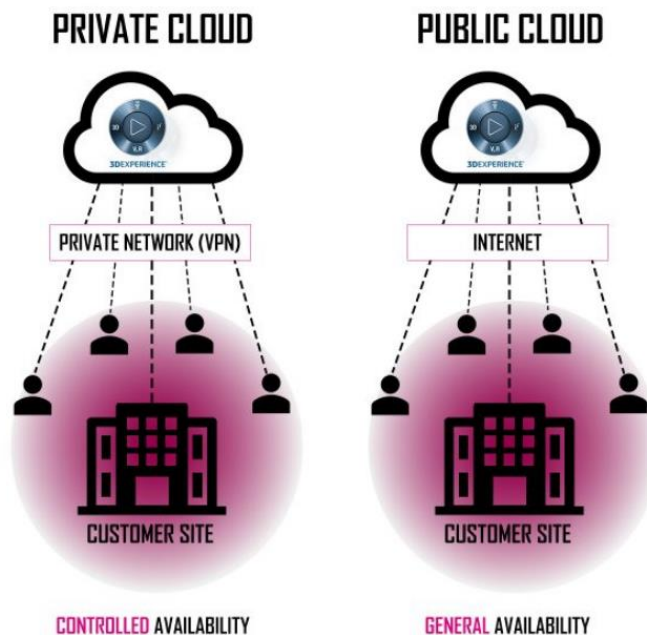
b) Infrastructure as a Service (IaaS):- Compute resources, complemented by storage and networking capabilities are owned and hosted by providers and available to customers on-demand.

c) Platform as a Service (PaaS):- The broad collection of application infrastructure (middleware) services. These services include application platform, integration, business process management and database services.



Dassault Systèmes Solution for Cloud

The Dassault Systèmes 3DEXPERIENCE Platform is available both on-premise and as a cloud solution. This article will explore the two types of cloud solutions available for use on the 3DEXPERIENCE Platform; Private Cloud and Public Cloud. Both of these solutions encompass the full power of the 3DEXPERIENCE Platform and offer a seamless deployment, the main difference is their infrastructure.





In short, the Private Cloud solution refers to hosting the **3DEXPERIENCE Platform** on a VPN that is dedicated to your business, which has an isolated address space, that extends your network into the cloud in a secure manner.

The Public Cloud solution, however, refers to being able to access **3DEXPERIENCE Platform** services through a public internet connection, with storage being provided by Dassault Systèmes and shared with other customers. Both of these come with their own advantages and limitations, the matter of which is better than the other ultimately depends on your business and your specific requirements.

3DEXPERIENCE Platform Private Cloud Solution

If you choose to deploy the **3DEXPERIENCE Platform**, all supervision and operation of the deployment, along with Monitoring, Licencing and upgrades will be taken care of for you by Dassault Systèmes, along with additional support from VIAS to ensure a quick, easy and seamless transition.

What does the Private Cloud solution consist of?

- Access to your own, dedicated Virtual CPU
- Your own dedicated Virtual Private Network (VPN) with an isolated address space to extend your network into the cloud in a secure manner
- Storage, provided by Dassault Systèmes.

Key Benefits:

- LDAP Integration (Company Password policy enforced via domain)
- Integrating through a dedicated VPN ensures that you can ensure device control, host custom widgets and include intranet pages
- Automatic release management
- 24/7 365 support



Limitations:

- This solution requires a minimum of 70 users
- Setting up the dedicated VPN will require IT support from your business
- Implementation and deployment can take up to a few weeks

3DEXPERIENCE Platform Public Cloud Solution

As with the Private Cloud solution, if you choose to deploy the **3DEXPERIENCE Platform** through the Public Cloud solution, all supervision and operation of the deployment, along with Monitoring, Licencing and upgrades will be taken care of for you by Dassault Systèmes, along with additional support from VIAS to ensure a quick, easy and seamless transition.

What does the public cloud solution consist of?

- Virtual CPU, Network and Storage are all provided by Dassault Systèmes and are shared across multiple Dassault Systèmes cloud users
- The **3DEXPERIENCE Platform** portfolio and services are made available to you via the public internet

Key Benefits:

- Instant deployment and scalability
- Significant cost reduction
- Automatic release management
- No IT support required from your business
- Easy Supplier Integration
- Cross Company Collaboration
- Globally synchronized update circle
- 24/7 365 support

Limitations:

- No LDAP integration
- No intranet access which means that it is not possible to store custom widgets or integrate intranet pages with platform dashboards
- No device control



3DEXPERIENCE on the cloud provides you with a complete suite of industry-leading solutions which gives you everything you'll need to bring your idea to reality, including design & engineering, manufacturing & production, simulation, governance & collaboration, break free of IT constraints and bring together all aspects of your business on a single cloud-based platform to increase collaboration, improve execution and accelerate innovation.

VIAS is a Dassault Systèmes Platinum Partner providing engineering analysis and design solutions using virtual experience and data analytics in a variety of industries including Aerospace & Defense, Marine and Offshore, Transportation and Mobility, Hi Tech, Consumer Packaged Goods, Energy, and Life Sciences. Our objective is to prevent repetitive design-related business interruptions and to provide cost effective, quick and safer designs with an experienced team. The VIAS team has decades of combined experience solving clients' complex problems with their software, training, and consulting expertise. Additionally, VIAS is a Certified Education Partner of Dassault Systèmes and is authorized to provide training for many DS solutions.