



Information Sheet

Cloud Computing

Tags: Digital Transformation



365 ARCHITECHS

This information sheet provides an introduction to the various types of cloud computing available today.

Cloud computing offers opportunities to:

Reduce costs	Improve resilience	Increase security	Accelerate delivery of services
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Private Clouds

Moving computing resources to a dedicated, purpose-built, offsite environment fails to realise almost all the benefits cloud computing proposes to provide. It's likely that these environments allow for some infrastructure enhancements such as redundant cooling, power and internet connections, with little progress in cost reduction or the speed with which new services can be deployed that is available with public clouds.

Infrastructure as a Service (IaaS)

The first of the public cloud offerings, IaaS solutions allow for the rapid deployment of virtual servers, inclusive of hardware, operating system licencing and some configuration. Services can be provided on-demand, with on contractual term.

IaaS is sometimes referred to as the "public cloud of last resort", due to lack of services provided with PaaS and SaaS solutions.

Platform as a Service (PaaS)

An improvement over IaaS, PaaS includes more services provided by the cloud service, such as operating system patching, database licencing, and networking services. Pricing is often based on consumption of services rather than availability typical of IaaS clouds.

Software as a Service (SaaS)

The holy grail of cloud computing environments is SaaS. Charges are typically based on monthly user subscriptions and provide a fully outsourced model of computing resources, configuration, security and software licences.

It is important to understand that some responsibilities still remain, such as user account management and data backups.

Hybrid Clouds

It is usual that multiple types of clouds are used together to form a corporate cloud network, utilising SaaS applications where available, PaaS applications where required, and IaaS applications where no other alternative is available.

Cloud Security

Cloud computing does not mean that cybersecurity is implicit in all types of clouds. In fact, some cybersecurity solutions can be deployed in each of the different cloud models.

A comprehensive analysis of the hybrid cloud computing environment is required to determine appropriate cybersecurity defences to be implemented to manage cyber risks. [See Information Sheet: Cybersecurity.](#)

About us

365 Architechs is a technology company based in Brisbane, Australia. We deliver solutions to support organisations on their digital transformation including cloud, modern applications, cybersecurity and artificial intelligence to drive profitability, growth and achievement of strategic objectives.
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