

Security for Cloud/SaaS/Web 2.0 & Datacenter Providers

Ensure Customer Trust, Regulatory Compliance, Manageability & Cost-Effectiveness

Cost-Effective Computing Across The Internet

Cloud computing is an architectural approach where dynamically scalable, virtualized resources are provided "as a service" over the Internet (often via a web browser). The idea incorporates software-as-a-service (SaaS) or platform-as-a-service (PaaS), Web 2.0 / Enterprise 2.0 and other recent technology trends which rely on the Internet for providing computing resources (often provided via datacenters that are shared among many users, and that can offer environmental sustainability and high reliability) to users independent of their physical location. Related technology approaches such as Service Oriented Architecture (SOA), which can also extend across organizational boundaries, as well as grid computing and utility computing, can be involved cloud computing. The benefits mainly relate to cost-savings and the minimization of any up-front cost hurdles:

- Users do not have to have any knowledge of, expertise in, or control over the technology infrastructure used to provide the cloud service.
- Users can minimize up-front technology infrastructure capital expenditure, and rather pay on-demand per use based on guarantees offered by the cloud provider by means of Service Level Agreements (SLAs).
- Users can dynamically scale the cloud service IT infrastructure (e.g. storage, processing power) up and down based on changing usage requirements.

Risks

Handing over control over your data and processing to a cloud provider – who in turn may fork out some of the offered services to other cloud providers – can have significant implications, including:

- **Access Control & Privacy** Providers need to have processes in place to manage privileged user access to cloud infrastructure. In addition, sensitive user information must be protected from other users, i.e. appropriate encryption and access controls must be applied at all stages.
- **Legal & Regulatory Compliance** Cloud services must meet regulatory compliance, and external audit / security certification requirements. Global providers must satisfy a myriad of national and international regulatory environments in order to deliver service to a global market. This may mean that the provider must

allow control over the location of data. It must also be possible to investigate inappropriate / illegal activity.

- **Data Recovery** Providers need to guarantee data recovery provisions within a specific timeframe, in the case of disasters, if the company goes out of business, or if you want to change provider
- **Service Reliability** While datacenters can offer a high degree of reliability through multiple redundant sites and professional monitoring, reliability of the cloud service from the user's perspective depends on resources outside the control of the cloud provider, especially network availability and performance.

Information Flow Control Across Clouds

Using traditional technologies and methods, managing and protecting information flows and access to resources across the complex, interconnected, dynamically changing Cloud environment is a challenge. ObjectSecurity OpenPMF is uniquely capable to solve this challenge, and forms the ideal security policy management building block to protect your cloud infrastructure:



ObjectSecurity OpenPMF lets you intuitively select business-centric security & compliance policies, which are then automatically enforced across your IT landscape (using a "model-driven security" approach). You can conveniently manage your policies at run-time, and even change your software applications and workflows without extra administration. OpenPMF reduces costs, improves security, and enables agility. Available as a packaged product and as an integrated turn-key solution.

Products & Services

- OpenPMF (packaged product & turn-key solution)
- SimulateWorld 4D synthetic environment toolkit
- SecureMiddleware: secure open source middleware
- Services: security policy management, Web 2.0 / SOA / Cloud / SaaS Security, middleware security, training workshop, tech. support, R&D
- Studies: in-depth documents about hot topics in security, e.g. model-driven security & SOA

www.objectsecurity.com