

# Cloud Computing

Cloud Computing consists of on-demand infrastructure and on-demand software, which are actively adapted to the business process requirements in each case. This also includes the ability to operate and manage complete processes.  
(Source: Saugatuck Technology)



## Audience:

- Companies with the potential for operating efficient infrastructural technologies with dynamic business process demands

## Service:

- Flexibility, immediate availability, reliability, efficiency and cost reduction for providing resources
- Easy accounting, transparent costs

## applicable software:

- Amazon Web Service Console (AWS)
- Elastic Fox
- HP Operations Orchestration (HP OO)

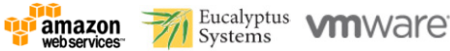
## Benefits:

- Optimization of infrastructure costs by decreasing administrative expenses
- Scalability: The resources can be easily and quickly adapted to the current needs, immediate reaction to load peaks is therefore possible
- Availability: Through multiple redundant solutions more continuity is guaranteed than with traditional server solutions
- Speed: reduced time-to-market for application set up
- Independence: less dependency on IT and their set up procedures
- Pay-per-Use: only the necessary resources need to be ordered and paid for

**The solution:** ... Cloud solutions through consultation, design and operation by profi.com!

## Infrastructure:

Amazon Web Services, Canonical Enterprise Cloud and VMware vCloud



- The Private "In-House" Cloud offers the security advantage of your own guidelines and resource setup. Through this, the deployment and administration is done through your own company by securing the dynamics and flexibility of the Cloud infrastructure.

## HP OO Automation Advantages:

- Automated business processes from ordering to managing of Cloud server entities
- Increase of your business's flexibility through predefined or customized resources
- Reduction of costs and time through an efficient supply of desired resources
- Business-specific customized automation processes, including integrating prior business processes and tools
- Integrates the advantages of Cloud computing into your business processes

## Cloud Variations

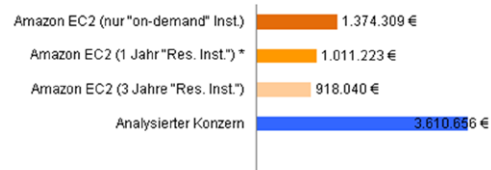
- **The Public Cloud**  
The resources are stored with one provider, which is connected to the internet. The infrastructure is purchased as a complete "as-is" service. This is the variation which can be used immediately. Only the resources actually used need to be paid for (pay as you go).
- **The Virtual Private Cloud**  
is also connected through the internet, but communication takes place over a VPN tunnel and the infrastructure stored at the provider is in its own surroundings (a network segment). It serves as an extension of your company's network. The infrastructure is purchased as a complete service as well. Yet the infrastructure and the administration for the VPN connection must be maintained within your company, which results in extra costs.

## Direct Costing Example:

- Clarification of the saving potential in the form of a representative cost analysis
- Configuration: 1000 servers of which 300 servers primarily intercept load peaks (20% annual usage), the remaining 700 servers operate continuously.

Savings of approx. 62% (for "on demand" entities) and up to 75% (entities reserved for 3 years which have been paid in advance) in comparison to the analyzed business costs.

Jährlicher Total Cost of Ownership (TCO) Überblick



## profi.com's Services:

- Cost and usage analysis for operating Cloud systems dependent on your business structure and the intended operations.
- Execution of tests (for example load tests) for operating the intended applications
- Investigations and solutions to fulfill the security demands of your applications

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