

# CLOUD COMPUTING

Cloud computing is an efficient and flexible approach to solving IT problems. IT services are provided via a real-time Internet connection and charged according to usage. In this way, cloud computing changes a company's budget by transferring IT costs from the capital investment side of the equation to operating costs. Cloud computing can be used for a wide range of applications, platforms, business processes and development, and it can even serve as a basic IT infrastructure. Cloud computing can be broken down into three distinct cloud levels:

## Cloud service level

- Software as a Service (SaaS) – Provision of Web-based applications
- Platform as a Service (PaaS) – Provision of complex system landscapes using a middleware layer
- Infrastructure as a Service (IaaS) – Provision of a virtualised infrastructure (desktops, servers, storage) via Internet

In contrast to the traditional “as-a-service” approach, cloud services are highlighted by the following:

- Highly flexible and nearly infinitely scalable thanks to fully virtualised resources
- Multitenancy: shared, and yet separate use of a single resource pool by multiple user groups
- User-controlled provisioning and usage-dependent costs

## Cloud Types

- Private Cloud – local cloud environment with physical access (hardware on site)
- Public Cloud – the cloud environment belongs to an IT service provider; access via Internet only
- Hybrid Cloud – a combination of private and public clouds, and a traditional IT environment

In general, one distinguishes private clouds between local environments, which are installed on site, and so called virtual private clouds, which are 100% hosted by a service provider.

## BENEFITS OF CLOUD COMPUTING

### Lower costs

The flexibility of cloud computing business models allows optimum adjustment of available IT capacities to the actual workload. Lower your initial investments and avoid shortages and oversupplying. In case of decreased workloads, you can cut back capacities to save operating costs.

### More Flexibility

In today's dynamic business environment, flexible use of IT resources is often vital to success. Start-ups, acquisitions, business combinations, reorganisations, seasonal fluctuations and the ever-changing requirements of customers all demand flexible and situational adjustments of the products and services a business offers. Cloud computing can provide the support you need for these processes

### Higher Speed

Cloud computing can provide you with the resources to meet short-term, unpredictable IT needs (e.g. by temporarily switching on additional computing capacities). In this manner, new business ideas can be launched more quickly with Internet support and reduced lead times.

For personal consultation, please call  
011 8090 11



## BECHTLE – CLOUD COMPUTING WITH TWO FEET FIRMLY PLANTED ON THE GROUND

Bechtle will take you on a tour and introduce you to the cloud. We'll explain, design, implement and operate your cloud computing solution. By covering all three core competencies of Bechtle, client management, server & storage and networking solutions, along with the fields of virtualisation, software and IT security, Bechtle is your perfect partner for cloud computing—and at all stages: during the plan-build-run cycle. We'll set up the cloud type that best suits your needs.