

# Infrastruktura kao servis u oblasti Cloud računarskih sistema

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**Sadržaj** — Prilagodljivost, samoodrživost i orijentacija na osnovnu djelatnost postaju prioritetne karakteristike poslovanje privrednih subjekata u savremenom poslovanju. Da bi postigli i održali konkurentnost, umjesto kupovine i održavanja sopstvenih servera, preduzeća se odlučuju na iznajmljivanje infrastrukture od cloud computing provajdera. Na taj način se vrši eksternalizacija (eng. *outsourcing*) koja podrazumijeva prebacivanje dijela poslovanja na drugo preduzeće. Taj način poslovanja se pokazao znatno povoljnijim od održavanja sopstvene infrastrukture. Plaćanje se vrši po potrošnji (eng. *pay as you go*), a ne paušalno. Cloud computing provajderi se brinu o održavanju infrastrukture i garantuju visoku raspoloživost.

Rad daje pregled ideje koja stoji iza cloud computing tehnologije kao i načine na koji se ova tehnologija može posmatrati u skladu sa njegovom vezom sa savremenim poslovanjem.

Kupci, korisnici cloud computing-a, pristupaju dijeljenoj infrastrukturi. Između dijeljenih resursa i infrastrukture postoji sloj apstrakcije koji omogućava pristup na zahtjev dijeljenim konfigurabilnim resursima. Cloud computing infrastrukturni servisi su omogućeni primjenom tehnologije virtuelizacije, koja je takođe jedna od tema kojoj se ovaj rad bavi dajući osnovno pojmovno pojašnjenje tehnologije kao i pregled prijetnji i koristi primjene pomenute tehnologije.

**Ključne riječi** — cloud computing, virtuelizacija, informacijski sistemi, IaaS

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# Infrastructure as a Service in Cloud Computing Systems

***Abstract*** - Adaptability, sustainability and orientation on primary activity are becoming priority characteristics of companies in modern business. In order to sustain their competitiveness business does not buy and maintain software they need and rather decide to buy cloud computing services. By doing that they actually outsource which means that they delegate at least part of its business on other companies. Outsourcing has proven to be more advantageous compared to self managed infrastructure. Typical payment model is “pay as you go” based on consumption and not as lump sum. Cloud computing providers guarantee for infrastructure and high availability.

Paper reviews cloud computing technology idea as well as models in which this technology can be implemented in accordance to modern business.

Customers, users of cloud computing, access mutual shared infrastructure. Between shared resources and infrastructure there is an abstraction layer which enables access to shared resources based on request.

Cloud computing, infrastructure services are based on virtualization technology which is additional subject of this paper. Paper provides basic term definition of this technology as well as review of treats and advantages of it.

***Key words*** - cloud computing, virtualization, information systems, Iaas