

Bibliotečki informacioni sistem BISIS na klaud platformi

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Računarstvo u oblaku danas, u eri velikih podataka, našlo je široku primenu u bibliotečko-informacionim sistemima. Primenom klaud tehnologija olakšano je efikasno i racionalno korišćenje resursa i usluga koji se čuvaju i koriste putem interneta umesto na lokalnim serverima i personalnim uređajima. Na taj način različite komponente sistema koriste istu infrastrukturu.

Bibliotečki informacioni sistem BISIS se koristi u više od 50 biblioteka različitih tipova u Srbiji. Sistem podržava uobičajene funkcionalnosti: katalogizaciju, izveštavanje, cirkulaciju, OPAC, preuzimanje i razmenu bibliografskih podataka i administraciju sistema. Ima standardnu klijent/server arhitekturu. Serverska strana je, do razvoja verzije 5 na klaud platformi, bila instalirana na mašinama lociranim u svakoj pojedinačnoj biblioteci i svaka je održavala svoju instancu sistema. To je stvaralo probleme, jer biblioteke, u praksi, nemaju dovoljno osoblja koje vlada veštinama u oblasti informacionih i komunikacionih tehnologija, kao ni adekvatne kapacitete za čuvanje podataka. Osim toga, hardverska infrastruktura je često vrlo siromašna i retko se menja i poboljšava. Sve to otežava održavanje postojećeg sistema i usporava njegovo razvijanje. Biblioteke u BISIS zajednici prepoznale su značaj i prednost klaud tehnologija za prevazilaženje ovih problema. Uvodjenjem ovih tehnologija, takodje se ubrzava razvijanje novih servisa kao što je nabavka gradje, revizija, pristup i upravljanje elektronskim i digitalnim materijalima i slično.

Nakon razvoja potpuno funkcionalnog sistema BISIS na klaud platformi, Biblioteka grada Beograda, Gradska biblioteka u Novom Sadu i Biblioteka šabačka, prelaze na ovaj sistem. Migracija poslovanja biblioteka i bibliografskih podataka u novi sistem, kao i prednosti koje su time ostvarene, biće opisane i diskutovane u radu.

Library information system BISIS on cloud platform

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Cloud computing today, in the era of Big Data, finds huge usage in library information systems. An idea of cloud computing is to share resources and services over the internet rather than having these resources on local servers or personal devices. In that way, several different components of a system can share the same infrastructure.

Currently, the BISIS community comprises over 50 libraries of different types in Serbia.

The primary modules of BISIS are cataloguing, bibliography reports, circulation, OPAC, bibliographic data interchange and administration. BISIS has traditional client/server architecture. Server side of the system is installed on a dedicated machine located in the premises of the library. Every library in the BISIS community is in charge of hosting and maintaining its own instance of system. Libraries lack IT staff and adequate storage facilities. Also, IT infrastructure is often poor and servers are rarely upgraded. All those constraints hinder maintenance and development of the system. Libraries in BISIS community have recognized importance of adoption of cloud technologies for diminishing those obstacles. Furthermore, a cloud infrastructure supports development of a variety of new services which don't exist in traditional library management systems. Those services are mainly connected to acquisition, management and accessibility of electronic and digital materials which occurrence is growing constantly in library collections, and so on.

After the development of a fully functional BISIS system on the cloud platform, city libraries of Belgrade, Novi Sad and Šabac are moving to this system. The migration of library operations and bibliographic data into the new system, as well as the advantages that have been achieved, will be described and discussed in the paper.