

Name: Cloud Computing Services II		NEPTUN-code: NIEFS2FBNE	Number of periods/week: full-time: 0 lec + 0 sem + 2 lab
Credit: 2 Requirement: mid-term mark		Prerequisite: NIXFS1FBNE Cloud computing services I	
Responsible: Róbert LOVAS, Ph.D.	Position: associate professor	Faculty and Institute name: John von Neumann Faculty of Informatics Institute of Applied Informatics	
Way of assessment: - practical mid-term and submission of homework assignment			
Competences			
Course description:			
The main aim of the subject is to get practical skills on cloud computing systems. Besides the public cloud computing services (e.g. Amazon Web Services), there is a special focus on setting up of platform services (e.g. Microsoft Azure) and their access through various interfaces. The students get familiar with the step-by-step deployment and operation of private Infrastructure-as-a-Service clouds particularly based on open-source solutions (e.g. OpenNebula and OpenStack). For demonstration purposes Big Data and IoT (Internet of Things) applications will be presented during the practices.			
Literature			
Bálint Farkas, Gábor Kovács, István Király, Attila Turóczy, Tibor König, Attila Érsek, Mátyás Safranka, Dávid Fülöp, Krisztián Pellek, Balázs Kiss: Windows Azure step by step, 2013 (in Hungarian, electronic notes) Tamás Schubert, Gergely Windisch: INFORMATION TECHNOLOGY SERVICES CLOUD COMPUTING (CLOUD COMPUTING), Digitális Tankönyvtár, 2011 (in Hungarian, electronic notes) Barrie Sosinsky: Cloud Computing Bible, Kiadó: Wiley, 2011 (electronic notes) Anne Gentle, Diane Fleming, Everett Toews, Joe Topjian, Jonathan Proulx, Lorin Hochstein, Tom Fifield: OpenStack Operations Guide, O'Reilly, 2014 (electronic notes)			