

Tópicos em Computação em Nuvem – 2014.3

	Data	Temas	Artigos	Alunos
Aula 1	16/09	Apresentação da disciplina Palestra EMC		
Aula 2	23/09	Introdução à Cloud Computing. Tecnologias e fundamentos de Cloud Computing (Capítulo 1)	<ul style="list-style-type: none"> • Brian Hayes. 2008. Cloud computing. <i>Commun. ACM</i> 51, 7 (July 2008), 9-11. • Michael Armbrust, Armando Fox, Rean Griffith, Anthony D. Joseph, Randy Katz, Andy Konwinski, Gunho Lee, David Patterson, Ariel Rabkin, Ion Stoica, and Matei Zaharia. 2010. A view of cloud computing. <i>Commun. ACM</i> 53, 4 (April 2010), 50-58. • Kamal Idrissi, H.; Kartit, A; El Marraki, M., A taxonomy and survey of Cloud computing. Security Days (JNS3), 2013 National , vol., no., pp.1,5, 26-27 	
Aula 3	30/09	Virtualização (servidores, rede, contêineres), Load Balancing, Escalabilidade e elasticidade (Capítulo 2)	<ul style="list-style-type: none"> • Timothy Wood, K. K. Ramakrishnan, Prashant Shenoy, and Jacobus van der Merwe. 2011. CloudNet: dynamic pooling of cloud resources by live WAN migration of virtual machines. <i>SIGPLAN Not.</i> 46, 7 (March 2011) • Evangelos Kotsovinos. 2011. Virtualization: blessing or curse?. <i>Commun. ACM</i> 54, 1 (January 2011) • Faouzi Kamoun. 2009. Virtualizing the Datacenter Without Compromising Server Performance. <i>Ubiquity</i> 2009, August, • Jeanna Matthews, Tal Garfinkel, Christofer Hoff, and Jeff Wheeler. 2009. Virtual machine contracts for datacenter and cloud computing environments. In <i>Proceedings of the 1st workshop on Automated control for datacenters and clouds (ACDC '09)</i>. ACM, New York, NY, USA, 25-30. 	<ul style="list-style-type: none"> • Bruno M(1) • Darlon(1)
Aula 4	07/10	Deployment, Replication, Monitoring, Identity and Access management (Capítulo 2)	<ul style="list-style-type: none"> • Ang Li, Xiaowei Yang, Srikanth Kandula, and Ming Zhang. 2010. CloudCmp: comparing public cloud providers. In <i>Proceedings of the 10th ACM SIGCOMM conference on Internet measurement (IMC '10)</i>. • Harold C. Lim, Shivnath Babu, Jeffrey S. Chase, and Sujay S. Parekh. 2009. Automated control in cloud computing: challenges and opportunities. In <i>Proceedings of the 1st workshop on Automated control for datacenters and clouds (ACDC '09)</i>. • Maya Dimitrova, Siya Lozanova, Lubomir Lahtchev, and Chavdar Roumenin. 2012. A framework for design of cloud compatible medical interfaces. <i>Conference CompSysTech '12</i> 	<ul style="list-style-type: none"> • José Castillo(1) • Bruno Rodrigues (1)

Aula 5	14/10	Service level agreements, Billing (Capítulo 2)	<ul style="list-style-type: none"> • Jennifer Ortiz, Victor Teixeira de Almeida, and Magdalena Balazinska. 2013. A vision for personalized service level agreements in the cloud. In Proceedings of the Second Workshop on Data Analytics in the Cloud • Anand Kumar, R.; Mittal, R.K., An user-centric billing model for cloud computing, Cloud Computing Technologies, Applications and Management (ICCCTAM), 2012 International Conference on , vol., no., pp.132,138, 8-10 Dec. 2012 • Fatima Alkandari and Richard F. Paige. 2012. Modelling and comparing cloud computing service level agreements. In <i>Proceedings of the 1st International Workshop on Model-Driven Engineering for High Performance and CCloud computing</i> (MDHPCL '12). • Iwashita, M.; Tanimoto, S.; Fujinoki, Y., Approaches to analyze requirements of billing management for cloud computing services, Computer and Information Science (ICIS), 2013 IEEE/ACIS 12th International Conference on , vol., no., pp.17,22, 16-20 June 2013 	<ul style="list-style-type: none"> • Mara (1) • Sílvia(1)
Aula 6	21/10	Cloud services & Platforms. Classificação de Cloud Services, Computing, Storage, Database (Capítulo 3)	<ul style="list-style-type: none"> • Sanjay Ghemawat, Howard Gobioff, and Shun-Tak Leung. 2003. The Google file system. <i>SIGOPS Oper. Syst. Rev.</i> 37, 5 (October 2003) • Klems, M.; Bermbach, D.; Weinert, R., A Runtime Quality Measurement Framework for Cloud Database Service Systems, Quality of Information and Communications Technology (QUATIC), 2012 Eighth International Conference on the , vol., no., pp.38,46, 3-6 Sept. 2012Matthias Brantner, Daniela Florescu, David Graf, Donald Kossmann, and Tim Kraska. 2008. • Building a database on S3. In <i>Proceedings of the 2008 ACM SIGMOD international conference on Management of data</i> (SIGMOD '08) 	<ul style="list-style-type: none"> • Rafael Ferraz (1) • Marcos Ávila (1)
28/10		<u>F E R I A D O</u>		
Aula 7	04/11	Application, Analytics, Network, deployment services (Capítulo 3) Hadoop & MapReduce: examples and applications (Capítulo 4)	<ul style="list-style-type: none"> • Ennan Zhai, Ruichuan Chen, David Isaac Wolinsky, and Bryan Ford. 2013. An untold story of redundant clouds: making your service deployment truly reliable. In <i>Proceedings of the 9th Workshop on Hot Topics in Dependable Systems</i> (HotDep '13). • Tao Zou, Ronan Le Bras, Marcos Vaz Salles, Alan Demers, and Johannes Gehrke. 2012. ClouDiA: a deployment advisor for public clouds. <i>Proc. VLDB Endow.</i> 6, 2 (December 2012) • Yong Zhao, Yanzhe Zhang, Wenhong Tian, Ruini Xue, and Cui Lin. 2012. Designing and Deploying a Scientific Computing Cloud Platform. In <i>Proceedings of the 2012 ACM/IEEE 13th International Conference on Grid Computing</i> (GRID '12). 	<ul style="list-style-type: none"> • Walter Pizzo (1)

Aula 8	11/11	Cloud application design (Capítulo 5)	<ul style="list-style-type: none"> • Ashish Agrawal and T. V. Prabhakar. 2013. Hospitality of cloud platforms. In <i>Proceedings of the 28th Annual ACM Symposium on Applied Computing (SAC '13)</i>. • Marco Migliarina, Giovanni P. Gibilisco, Danilo Ardagna, and Elisabetta Di Nitto. 2013. Model based control for multi-cloud applications. In <i>Proceedings of the 5th International Workshop on Modeling in Software Engineering (MiSE '13)</i>. • Danilo Ardagna, Elisabetta Di Nitto, Giuliano Casale, Dana Petcu, Parastoo Mohagheghi, Sébastien Mosser, Peter Matthews, Anke Gericke, Cyril Ballagny, Francesco D'Andria, Cosmin-Septimiu Nechifor, and Craig Sheridan. 2012. MODAClouds: a model-driven approach for the design and execution of applications on multiple clouds. In <i>Proceedings of the 4th International Workshop on Modeling in Software Engineering (MiSE '12)</i>. 	<ul style="list-style-type: none"> • Rômulo Maia
Aula 9	18/11	Service oriented architecture. Cloud component model (Capítulo 5)	<ul style="list-style-type: none"> • Milad Torkashvan and Hassan Haghghi. 2012. A service oriented framework for cloud computing. In <i>Proceedings of the 3rd International Conference on Information and Communication Systems(ICICS '12)</i>. • Wojciech Cellary and Sergiusz Strykowski. 2009. e-government based on cloud computing and service-oriented architecture. In <i>Proceedings of the 3rd international conference on Theory and practice of electronic governance (ICEGOV '09)</i> • M. Poullymenopoulou, F. Malamateniou, and G. Vassilacopoulos. 2011. E-EPR: a cloud-based architecture of an electronic emergency patient record. In <i>Proceedings of the 4th International Conference on PErvasive Technologies Related to Assistive Environments (PETRA '11)</i>. 	<ul style="list-style-type: none"> • André Luís (1) • Bruno Anselmo (1)
Aula 10	25/11	Benchmarking & Tuning. Workload characteristics. Performance metrics. (Capítulo 11)	<ul style="list-style-type: none"> • Nedyalko Borisov and Shivnath Babu. 2013. Rapid experimentation for testing and tuning a production database deployment. In <i>Proceedings of the 16th International Conference on Extending Database Technology (EDBT '13)</i>. • Rizwan Mian, Patrick Martin, Farhana Zulkernine, and Jose Luis Vazquez-Poletti. 2013. Towards building performance models for data-intensive workloads in public clouds. In <i>Proceedings of the 4th ACM/SPEC International Conference on Performance Engineering (ICPE '13)</i> • Jianzong Wang, Rui Hua, Yifeng Zhu, Jiguang Wan, Changsheng Xie, and Yanjun Chen. 2012. RO-BURST: A Robust Virtualization Cost Model for Workload Consolidation over Clouds. In <i>Proceedings of the 2012 12th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (ccgrid 2012)</i> 	<ul style="list-style-type: none"> • Ewerton Andrade (1)

Aula 11	02/12	Cloud security (Capítulo 12)	<ul style="list-style-type: none"> • Richard Chow, Philippe Golle, Markus Jakobsson, Elaine Shi, Jessica Staddon, Ryusuke Masuoka, and Jesus Molina. 2009. Controlling data in the cloud: outsourcing computation without outsourcing control. In <i>Proceedings of the 2009 ACM workshop on Cloud computing security</i>(CCSW '09). • Jinpeng Wei, Xiaolan Zhang, Glenn Ammons, Vasanth Bala, and Peng Ning. 2009. Managing security of virtual machine images in a cloud environment. In <i>Proceedings of the 2009 ACM workshop on Cloud computing security</i> (CCSW '09). • Siani Pearson. 2009. Taking account of privacy when designing cloud computing services. In <i>Proceedings of the 2009 ICSE Workshop on Software Engineering Challenges of Cloud Computing</i>(CLOUD '09). IEEE Computer Society • Juraj Somorovsky, Mario Heiderich, Meiko Jensen, Jörg Schwenk, Nils Gruschka, and Luigi Lo Iacono. 2011. All your clouds are belong to us: security analysis of cloud management interfaces. In <i>Proceedings of the 3rd ACM workshop on Cloud computing security workshop</i>(CCSW '11). 	<ul style="list-style-type: none"> • Nelson (1) • Fábio Cochi (1)
Aula 12	09/12	Fechamento da disciplina. Apresentação de trabalhos		