

Cloud & Deployment (bachelor class, 16 weeks, Wednesday 13h-16h45)

Session	Date	Program	Delivrables	Teachers	
1	20.09.2023	Introduction to Cloud - Lab 1: IaaS comparative study (IaaS configuration, credentials, access to Cloud infrastructures)		Francisco, Raoul, Assane	
2	27.09.2023	Lab 1: IaaS Comparative study (manual deployment)	D#1.0	Francisco, Raoul, Assane	describe application
3	04.10.2023	Lab 1: IaaS Comparative study (automatic deployment)	D#1.1	Francisco, Raoul, Assane	D#1.1: Two python programs for two IaaS (for each student)
4	11.10.2023	Lab 1: IaaS Comparative study (report)	D#1.2	Francisco, Raoul, Assane	D#1.2: A comparative study report (for each group) related to the 5 IaaS
5	18.10.2023	Lab 1: IaaS Comparative study (report)		Francisco, Assane	
	25.10.2023	No Class			
6	01.11.2023	Containers management Systems (presentation). SWARM Exercise (no evaluation)		Francisco, Assane	
7	08.11.2023	Kubernetes Presentation, Kubernetes Exercise, Lab 2 introduction	D#2	Assane, Francisco	D#2: Kubernetes platform
8	15.11.2023	Lab 3: Function as a Service		Mohamad, Assane	
9	22.11.2023	Lab 3: Function as a Service	D#3	Mohamad, Assane	D#3: To be defined
10	29.11.2023	Lab FaaS delivery		Mohamad, Assane	
11	06.12.2023	Exoscale presentation IT automation: Configuration Management and DevOps Lab 4: exercise 1/3: infra provisioning with Terraform		Abir, Assane	
12	13.12.2023	Lab 4: exercise 2/3: service stack deployment with Ansible exercise 3/3: DevOps code delivery with GitLab CI/CD		Abir, Assane	
13	20.12.2023	Lab 4: assignment: a complete IaC workflow		Abir, Assane	D#4: a GitLab CI/CD pipeline implementing the workflow
14	10.01.2024	Follow-up Lab 4: assignment: a complete IaC workflow		Assane, Abir	
15	17.01.2024	Lab 5: Edge Computing		Assane, Francisco, Abir, Raoul	
16	24.01.2024	Exam (40%)		Assane	

The final score is calculated as follows: 15% (Lab 1 + Lab 2 + Lab 3 + Lab 4) + 0.4 * Exam