

UC3M Specialist in NFV/SDN

Cloud Management and Orchestration for NFV

Unit 1: Automation and Management. Cloud management reference architecture. Data center challenges and solutions. Goals of automating virtualisation management. Automating the data center: Benefits, Challenges, Solutions. Tools for automation: Chef, Puppet

Unit 2: New trends and solutions for virtualization. Containers: FreeBSD jails, LXC, OpenVZ, Docker. Microvisor (Bromium). Virtual machines to deploy services: Vagrant.

Unit 3: NFV Management and Orchestration. ETSI NFV MANO: NFV orchestrator, VNF Manager, Virtualized Infrastructure Manager.

Unit 4: OpenStack. Overview of OpenStack and its architecture. Compute. Object Storage. Block Storage. Networking. Dashboard. Orchestration. Use cases.