

# Cloud, NFV and SDN in an Hour

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## CONTENTS

The course is designed to let the student acquire overview knowledge on architecture, hardware, software, services and development of Cloud Computing technologies. The course walks you through hypervisor virtualization as well as container technology, and explains the difference between the cloud execution environment and cloud management. Telco cloud is discussed in the context of the ETSI NFV standard. The course also covers Software-Defined Networking and describes how NFV and SDN intersects and work together. It is a shorter version of the two-day course "Cloud, NFV and SDN".

## PREREQUISITES

Working knowledge of computer and telecommunications systems.

NOTE: This course is not delivered with the FoldOut methodology.

## Cloud Introduction

- What is the cloud?
- Essential cloud characteristics
- as-a-Service models
- Private/Public/Hybrid/Multi-Cloud

## Virtualization

- Virtualization and Cloud
- Virtualization benefits
- Distribution of Resources

## Containers

- Linux Containers (LXC)
- Docker
- The Cloud Native approach

## OpenStack

- Introduction and background
- Components/Projects
- Main Openstack Architecture

## Network Functions Virtualization (NFV)

- The Telco Cloud
- NFV main architecture
- Official NFV Use cases

## Software-Defined Networking (SDN)

- Why SDN?
- SDN Devices
- SDN and NFV

## Summary