

Sela.

Cloud

Cloud Computing

college@sela.co.il

03-6176666





Cloud Computing

Cloud - Version: 1

 1 days Course

Description:

In this course we describe the idea behind cloud computing, the motivations and offerings. We define basic concepts and the different types of clouds. We explore the architecture of cloud friendly applications and show the different infrastructures available in the cloud today. Deploying an application to the cloud involve several challenges such as security and performance which are discussed in the course.

Intended audience:

Decision makers.

Prerequisites:

Objectives:

Topics:

What is the Cloud

- Define the term “Cloud Computing”
- Explain the motivation cloud computing
- Explain the economics behind cloud computing



- The requirements from the cloud

Basic Concepts

- The Utility Model
- Geo Distribution
- Elasticity
- Scale

Types of clouds

- Private cloud
- Public clouds
- IAAS
- PAAS
- SAAS
- Storage As a service
- Middle Tier in the cloud

Major Cloud Offering

- Windows Azure
- Amazon Web Service
- Google Apps
- Rackspace
- Others

Cloud Architecture

- Architecture concerns for cloud ready applications



- Development Procedures and tools
- Management procedures and tools
- Deployment Procedures and tools

Data in the Cloud

- Storage types
- Sql and NoSql Databases
- Distributed File systems
- Disaster recovery
- Geo Distribution
- Caching

Distributed Computing

- Types of distributed applications
 - Hadoop
 - HPC
- Distributed application examples

Security in the Cloud

- Security challenges
- Security and privacy standards
- Security technologies and methodologies
- Identity in the cloud

Performance

- Performance issues and design

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- Design for high scale application
- Other non functional requirement is the cloud

The future of cloud computing

- True Hybrid cloud
- Future cloud application, data and middle tier infrastructures
- Cloud trends
- The cloud in a multi platform environment