

00:12

Hello.

00:12

This is Dr. Surya Yadav.

00:15

We will introduce cloud computing in this video.

00:46

Here we briefly introduce cloud computing to include

00:49

its aspects, models and challenges.

00:53

Cloud computing is on-demand access

00:56

to all kinds of computing resources via the Internet.

01:00

Computing resources are provided by cloud service

01:04

providers like Amazon, Microsoft, and Google.

01:08

The word "cloud" refers to a platform

01:12

or infrastructure that enables computing,

01:15

that is the execution of software in a managed way.

01:20

Users use cloud computing via Internet

01:24

using their own devices.

01:26

According to marketsandmarkets.com and Grandviewresearch.com, the global

01:33

cloud computing market will grow to more than double, from about 425 billion U.S.

01:39

dollars to about 960 billion

01:44

in US dollars in 2026.

01:48

Cloud computing systems or simply cloud

01:51

systems can be viewed in many aspects.

01:55

Most of these aspects are shown in the diagram.

01:59

Cloud systems are different types--

02:01

infrastructure as a service, I.A.A.S., that is Amazon

02:07

S3, Amazon EC2, SQL Azure,

02:12

platform as a service,

02:14

that is force.com, Google app engine, et cetera.

02:19

Software as a service-- Google Docs, Salesforce CRM, etc.

02:25

The deployment

02:26

modes can be private, public and hybrid.

02:30

Some of the features of the cloud systems are elasticity, that is ability to adapt

02:36

to changing requirements, availability and reliability, et cetera.

02:42

Cloud systems can be beneficial in terms of cost reduction,

02:47

turning capital expenditure, "CapEx,"

02:49

into operational expenditure,

02:53

"OpEx," and paper use, et cetera.

02:56

The diagram lists several challenges to cloud computing.

03:01

These challenges are not unique to cloud computing.

03:05

Similar challenges are faced by on premise computing systems also.

03:10

These challenges must be met successfully

03:13

in order to make an effective use of cloud computing.

03:17

Despite its challenges, cloud computing is undoubtedly

03:21

the future of data processing, storage and management.

03:26

Here we briefly introduced cloud computing.

03:30

Thank you for watching.