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Hello.

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This is Dr. Surya Yadav.

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We will introduce cloud computing in this video.

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Here we briefly introduce cloud computing to include

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its aspects, models and challenges.

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Cloud computing is on-demand access

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to all kinds of computing resources via the Internet.

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Computing resources are provided by cloud service

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providers like Amazon, Microsoft, and Google.

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The word "cloud" refers to a platform

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or infrastructure that enables computing,

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that is the execution of software in a managed way.

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Users use cloud computing via Internet

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using their own devices.

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

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

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dollars to about 960 billion

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in US dollars in 2026.

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Cloud computing systems or simply cloud

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systems can be viewed in many aspects.

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Most of these aspects are shown in the diagram.

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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.