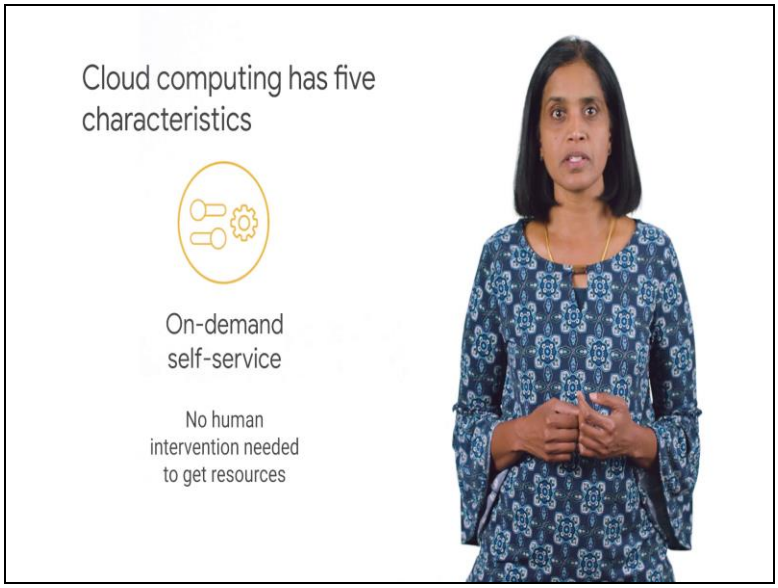
Google Cloud Computing Foundation Course
Sowmya Kannan
Department of Computer Science
Indian Institute Technology Kharagpur

Lecture-2
Cloud computing

So, let us go ahead and look at the characteristics of cloud computing. Cloud computing has 5 fundamental characteristics.

(Refer Slide Time: 00:12)



First computing resources are on demand and self-service, cloud computing customers use an automated interface and get the processing power storage and the network they need without the typical complex configurations required when building physical servers. Second resources are accessible over a network from any location, providers allocate resources to consumers from a large pool allowing them to benefit from economies of scale.

The resources exist in multiple locations all over the world you just have to decide the available geographic location you wish to utilize. Resources are elastic if you need more resources you can get them rapidly and when you need less you can scale back. Finally you pay only for what you use or reserve as you go. If you stop using resources you simply stop paying.

(Refer Slide Time: 01:17)

Consider an example of a city, infrastructure is the basic underlying framework of facilities and systems such as transport, communications, power, water fuel and other essential services. The people in the city are like users and the cars and bikes and buildings in the city are like applications. Everything that goes into creating and supporting those applications or buildings for the users or citizens is the infrastructure.

The purpose of this course is to explore as efficiently and clearly as possible the infrastructure services provided by Google cloud platform or GCP. You will become familiar enough with the infrastructure services to know what the services do and have a good grounding on how to use them. By the end of this course you will be sufficiently prepared to learn anything you need to know to use GCP.