Computer Awareness Notes - Cloud Computing Study Material

Many recruitment examinations such as **SSC CPO, SSC MTS, SSC CHSL, IBPS PO, IBPS RRB, NABARD, RBI Grade B, etc,** have a lot of questions asked on the topic of Computer Awareness. Most jobs in **today's world require more than simple literacy in computer knowledge**. This is because of a huge amount of work in most sectors in based on this. Many exams will ask Computer Awareness topics and questions either in a separate section or in the section devoted to **General Awareness**. Therefore, in this article, we are providing you with basics and main points for **Computer Awareness** about the topic of **Cloud Computing**.

Remember that there is much more information on Cloud Computing. We are only providing you with the basic points since they are likely to come in the examination. You can also download this article as PDF here.

Computer Awareness Basics - What is Cloud Computing?

Cloud computing is a form of **Internet-based computing**. It **provides shared computer processing resources and data** to computers and other devices on demand. Moreover, it **enables on-demand access everywhere to a shared pool of configurable computing resources**. It, further, **allows the users to store their data** in either privately owned cloud, or on a third-party server **to make data accessing mechanisms easier and more reliable**.
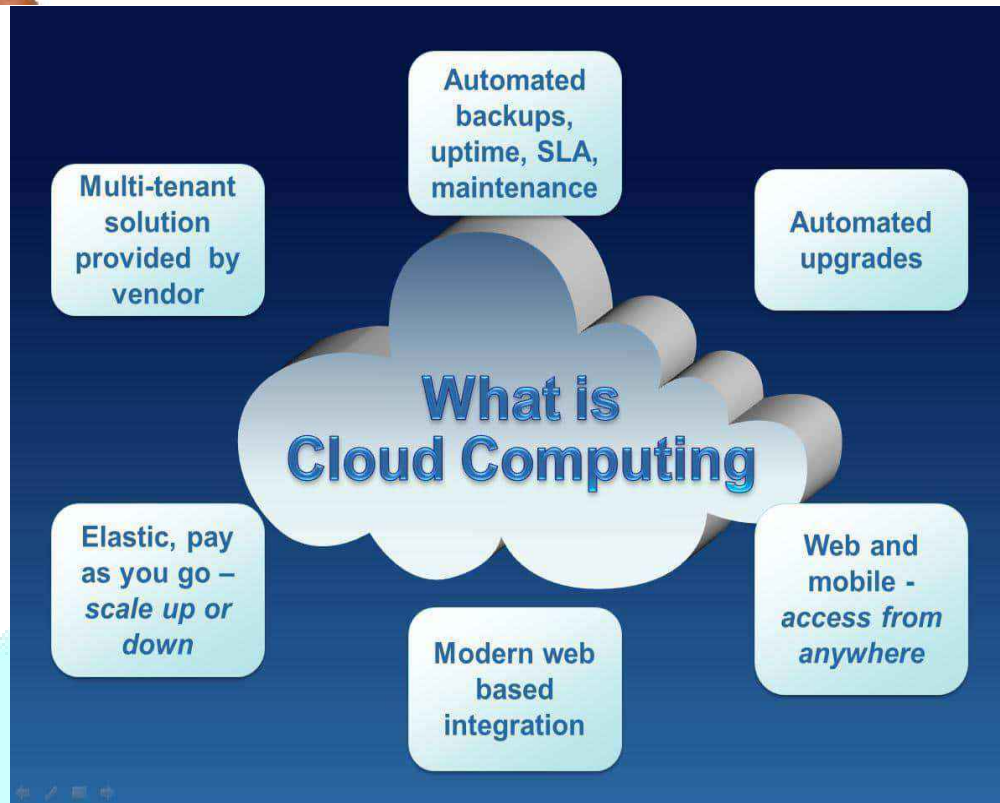
Another definition of cloud computing is given by **The National Institute of Standards and Technology**. According to them, cloud computing has *five basic features*:

1. **On-demand self-service -** A user by themselves can supply computing capabilities without any necessary human interaction with others.
2. **Broad Network Access -** Capabilities are available over the network with heterogeneous use of client platforms such as mobile phones, tablets, laptops, etc.
3. **Resource Pooling -** The provider's computing resources are pooled to serve multiple consumers at the same time to suit their requirements.
4. **Rapid Elasticity -** Capabilities are flexible enough to suit the requirements of the users and can be rapidly supplied multiple new capabilities.
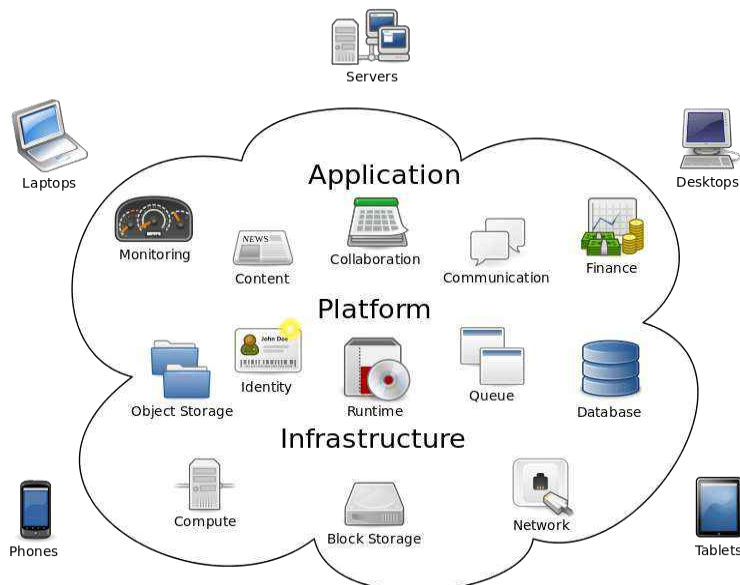
5. **Measured Service -** Resource usage is easily monitored, controlled, and reported to provide transparency for both the provider and consumer.

Characteristics of Cloud Computing - Computer Awareness

- Increases organisational agility.
- Reduces cost because of the conversion of capital expenditure to operational expenditure.
- Allows people to access systems using a web browser regardless of their location or device.
- Eases maintenance because cloud computing doesn't have to be installed on each computer and is accessible from different places.
- Has a single software running on multiple servers which centralizes infrastructure in locations with lower costs.
- Leads to peak-load capacity increase and utilisation and efficiency improvements for systems.
- Makes performance monitoring easy.
- Increases productivity since multiple users work on the same data simultaneously rather than waiting for it to be saved and used later.
- Saves time.
- Is suitable for disaster recovery.
- Increases security due to centralisation of data.

Cloud computing

Computer Awareness - Models of Deployment for Cloud Computing

A **deployment model** is a particular kind of cloud environment, determined by **ownership**, **size** and **access**. As this table makes clear, there are various kinds of models for deployment which have a different speciality. Here is a list of them:

Models of Deployment	Speciality
Private Cloud	operated solely for a single organisation, either managed internally or by a third-party, and hosted either internally/externally.
Public Cloud	services are provided over a network that is open for public use.

Hybrid Cloud	a composition of two or more clouds remaining distinct entities but are bound together, offering multiple benefits.
Community Cloud	shares infrastructure between several organisations from a specific community with common concerns.
Distributed Cloud	assembled from a distributed set of machines in different locations, connected to a single network.
Intercloud	an interconnected global "cloud of clouds" and an extension of the Internet "network of networks" on which it is based.
Multicloud	use of multiple cloud computing services in a single heterogeneous architecture to reduce single vendor reliance, increase flexibility, mitigate against disasters, etc.

We hope this article on Computer Awareness Basics of Cloud Computing was useful for your preparations. You can also tell us which other Computer Awareness articles you would like us to help you with in the comments.

Additionally, you can also read our other articles on Computer Awareness here:

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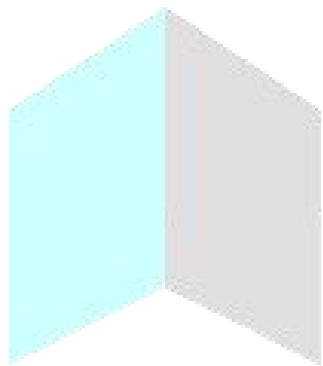You can also go on Testbook Discuss and see what your fellow exam aspirants are talking about. Moreover, you can ask all your doubts to our experts and they will answer you there.