Cloud Computing

Sessional Assignment

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Q1: Explain in detail Service Oriented Architecture (SOA) in cloud computing.

Ans: Service-Oriental Architecture (SOA) is a form of architecture where applications use the resources available on a network. In this facility, services are provided in the form of applications, over the Internet.

• SOA allows users to pool large amounts of resources from existing services to create applications.

• SOA incorporates a set of design principles that facilitate the development of a program and provides a means of integrating objects into a unified and limited system.

• SOA packages are performance-based in a set of usable functions, which can be integrated into different software systems with different business backgrounds.

Q2: Explain in detail prominent security threats to the cloud computing.

Ans: The most common and prominent security threads on a cloud computer are as follows.

• Data integrity is the most important issue of Data Breach is the incident where an unauthorized person steals sensitive / personal data.

• A data key is also a thread in a computer company in the cloud often referred to as a vendor-lock and is a situation where a customer using a service cannot easily switch to a competitor's product or service.

• Data deletion is a residual symptom of data loss.

• Data recovery can be difficult in the event of a server failure or failure.

• Data space is the introduction of the idea that data should be stored closer to the processing but makes things more complex for simple applications.

Q3: Explain in detail Cloud Infrastructure Mechanisms.

Ans: Basic building blocks for cloud environments, inclusive

Im Logical Network Perimeter:

Network characterization that establishes a virtual network boundary. Their objectives are:

- Separate IT resources in the cloud from unauthorized users.
- Separate IT IT services from the cloud from non-users.
- Select cloud IT services for cloud consumers.
- Controlling the bandwidth available from different IT resources.

o Virtual Server:

A type of software that provides a virtual server. Used by the cloud provider for sharing services. In other words Virtual server means virtual machine.

- **Device Cloud Storage Device:**

Storage devices are specifically designed for a cloud-based environment. The doors to this storage can be seen. Able to provide skills allocation support to the operating system used.

- **Cloud Monitoring:**

A lightweight and independent software system responsible for collecting and processing IT resource usage data.
e.g. amount of data, payment amount, time of use, etc.

- **Lication Response Feedback:**

Multiple creation of similar IT resources. Feedback is often made when the availability and performance of IT resources needs to be improved.
Environment Environment Learned:
The descriptive component of the PaaS (Platform as a Service) is a cloud delivery model that represents a defined, cloud-based framework that is developed by a set of IT resources that are already installed, ready to use and customized by the cloud consumer. It is usually installed with the Software Development Kit (SDK).