

I. Introduction

The cloud computing is used for application-based software that is used for constructing the structure of store data. This is connected to the field of remote service that is accessed through the internet. The cloud-based architecture is applied to the sector of virtualization that is used for sharing scalable resources across the network. The strategies of cloud computing is used for portable workload. Cloud computing is applicable to application programming interfaces on basis of virtual private network. The virtual private network is used for configuring virtual program that is used for managing UWTSD Birmingham. This is used for building private cloud infrastructure of OpenStack system. The application of cloud is used as environment that is used for running the application.

Cloud Computing Concept, Background, Characteristics, Services, and Models 800

3 Concept of cloud computing

cloud computing is used for delivering hosted services through the medium of internet. This is used for implementing cloud computing model. This is used for enabling the clients devices that is applicable for remote servers

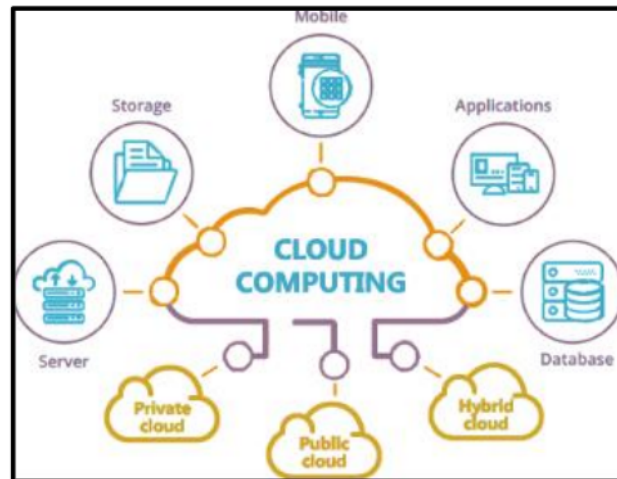


Figure 1: Cloud computing architecture

The communication system of front and back end are managed by central server on basis of different protocols by exchanging data. The process of cloud computing is connected to the field of virtualization and automation technologies. The virtual process enables logical entities that are

related to the orchestration process. This is used for creating private clouds on the basis of proprietary networks. The concept of cloud computing is used for creating convenient network access that is used for configuring computing resources. The infrastructure of cloud computing is used for utility based model computing. This service is available for providing standard networks and heterogeneous devices. Services of cloud computing services is able to scale out necessary problems. The resource pooling is connected to its resources that is used for sharing across multiple applications in an uncommitted manner

Background of cloud computing

The cloud computing is used for developing social sectors for innovating new technologies. This is used for military mainframe that is connected to computer terminal. Mainframe computer terminal is based on internal matrix or non local storage technology. The concept of cloud computing is invented on the concept of distributed computing. The process of cloud computing is connected to application over internet. This is used for massive development of industry by hosting videos, music on basis of online delivery. Term of “cloud” is referred to digital sphere that is connected to applicants of paas and saas application. Amazon based web service launched for elastic cloud computing of online application. This is done by predicting the hybrid cloud model by different market leader. The cloud-based architecture is used to develop to the sector of virtualization that is used for sharing scalable resources across the network. The strategies of cloud computing are used for portable workloads.

Characteristics of cloud computing

The characteristic of cloud computing is based on cloud computing service on the structure of human administrator. This human administration based cloud computing is used to monitor and manage the computing resources. This service is available for providing standard networks and heterogeneous devices. The application of cloud computing services is able to scale out necessary problems. The resource pooling is connected to its resources that is used for sharing across multiple applications in an uncommitted manner. The resources of cloud computing application is used for monitoring bills. The characteristics of cloud computing is related for maintaining and modifying automation process. This is used to create flexible payment structure cost cutting of different organizations. This payment process is helpful for the cloud service provided that consists of different functionaries of end users. This is done by different types of maintaining purpose on basis of continuous bandwidth of client service. Cyber security deals

with substantial account of different organization. The safety of cyber security systems is used to ensure the cloud space of third party provider. The process of cyber security helps for boosting security measures for a nominal fee. The process of cyber security is increasing needs of data storage as per requirements of big organizations.

Cloud security and mitigation of security issues

The issues of cyber security is occurred for misconfiguring the cyber security that is related to data breaches technologies. This cloud infrastructure is used for designing for purpose data sharing methods. This is used for securing cloud infrastructure for multi cloud deployment. This is done by different types of factor as per essentials requirement.

Unethical access of user

In the field of infrastructure premises the cloud based deployments are used for network parameters. The asset of cloud-based deployment is used to access the infrastructure to employees to employees and customer. The errors of configured security can enable different attackers to gain direct access as per the knowledge of the organization. The cyber security protocols can not offer a number of interfaces on the basis of application programming. The process of hijacking accounts occurs for weak password security. The process is linked to the impact of phishing attacks and data breaching techniques. This account hijacking is connected to issues of cloud security system. The process is connected to lack of cloud infrastructure on the basis of customer credentials. This creates the threat during the process of threat identification process.

The mitigation of cyber securities is set up by multifactor authentication process that is required by different password. This password is used for automate the ratings as per complexity of user code. The password is used to create uppercase and lowercase letters as well of different numbers. Issues of cyber security is solved by backing up the data of organizations that is used for business against configuration errors. The process is mitigated by setting up and maintaining the computers. This is done by outsourcing the task for cloud computing certification process. The process of cybersecurity risk is occurred by regular auditing by cloud services methods. The process is linked to the impact of phishing attacks and data breaching techniques. Implementation of management framework is connected to restricted issues of accessing certain information.

Virtualisation concept including Hypervisor I & II

The hypervisor is connected to the process of server visualization that allows the different operating system. The process is used for the application of same physical resources. The virtual machine for the system and network administrator. The hypervisors is the critical piece that is used for making virtualization process. The process is connected to set up the virtualization layer by installing host machine and guest modes of virtual machines. The bare metal of hypervisor is represented by layer of software that is provided for boost up the physical server with the bare metal hypervisor installation. This allows the server configuration that is used for changing ip address, password of particular system. The management console can be web based or separate software packages for purpose of the machine installation process.

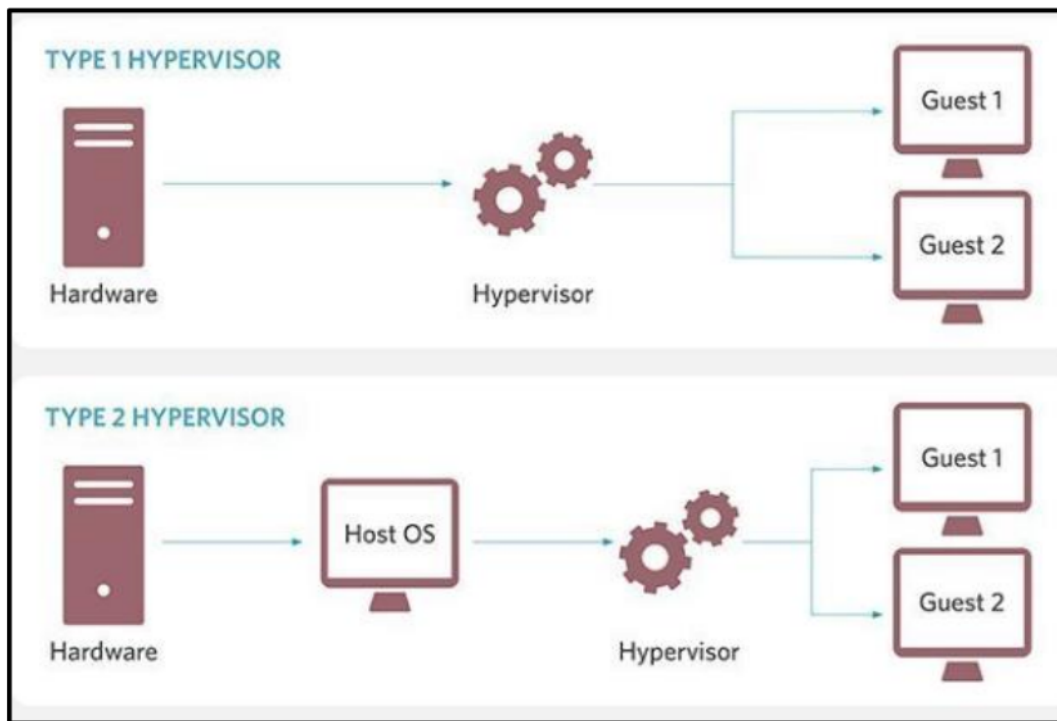


Figure 2: Types of hypervisor

The following figure represents the types of hypervisor that are commonly used in cloud solutions. In type 2 hypervisor an additional layer of host OS is implemented for better cloud solution.

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Kernel based virtual machine

The **kernel based virtual machine** into linux is subjected to different types of functionality. This is used to convert the linux kernel into hypervisor. This is used for accessing hardware along with different virtual machines. The kernel based virtual machine is used in the open source hypervisor that is containing features of linux. The process is based in different choices of enterprise environments that is included to migration and resources of different The hypervisors of virtual machine that is used for the process of ladder technologies . The process is connected to set up the numerous advanced features by installing host machine and guest modes of virtual machines. The bare metal of hypervisor is represented by a layer of software that is provided for boosting up the physical server with the bare metal hypervisor installation. The process is based on GUI funtiniization methods.

The type2 hypervisors is used for creating physical machines that are used for hosting hypervisors that consist of different software layers. In this system the operating system is installed on different types of hardware. The hypervisors2 is used to install in separate software with different built in functionalities. The process is used for the application of operating software by cloning of virtual machines.

Oracle virtual box

The oracle virtual box is used for stabling product with enough features for personal in the case for smaller business purpose. Virtual box is essential for proving the good solution of server virtualization process. The process is used for supporting the guest multiprocessing that is used for “**pxe network boots**” and snapshot trees applications. The vm workstation is used for the scope of linux and windows. The process is helpful for hosted hypervisors that is used for seamless integration purpose The hypervisors of vmware that is used for process of development fusion technologies . The process is connected to set up the numerous advanced features by installing host machines and modes of sandbox environments. The bare metal of hypervisor is represented by a layer of software that is provided for boosting up the physical server with the bare metal hypervisor installation. This is the system that is used to extend the existing computer for multiple operating system. It is applicable for different types of windows and linux based operating system. The platform of virtual machine offers the license of virtual machine that is used for educational and evaluation of particular use. In this system the operating system is installed on different types of hardware. The hypervisors2 is used to install in separate software with different built-in functionalities . This is used for accessing hardware along with different

virtual machines. The oracle based virtual box is used in the open source hypervisor that contains features of Linux. The process is based on different choices of enterprise that are based on vmware servers and data management tools for running as virtual machines. The virtual box of virtual machine is used for dual monitoring system that is based on different virtual machine. This is dependent on the feature of installing the guest additions cd image and extending the second monitor. This is used for high performances of enterprising customize system. The virtual box is used for developing the growing list of features.

A comparison of IaaS, PaaS, and SaaS with respect to UWTSD requirements

The infrastructure of the service is used to delivering computing infrastructure on basis of demand service. This is based on fundamental model of cloud service model that is used for storing the networking operation system. The user of the system can purchasing servers or space of software data service. The process of IAAS is allows the dynamic scaling and resources for distributing services. In the other hand platform as a service is a used to create cloud delivery model. The process is connected to different types elastic scaling that is used for different types of application. This allows the building applications and services over the internet. The process is based on deployment process.

The infrastructure based process is applicable to scaling the business based as per the requirement. This is used to provide the various options of virtual machine and applications of storage and network system. The process of iaas is used for saving the lots of money for purpose of implementation of advanced technologies. The user of the system can purchasing servers or space of software data service. The process of IAAS allows the dynamic scaling and resources for distributing services. The user of the system can purchasing servers or space of software data service. The process of IAAS is allows the dynamic scaling and resources for distributing services. In the other hand platform as a service is a used to create cloud delivery model. The process is connected to different types elastic scaling that is used for different types of application. This allows the building applications and services over the internet. The process is based on deployment process

The user of the system can purchasing servers or space of software data service. The process of saas allows the categorization of computing services. In the other hand platform as a service is a used to create cloud delivery model. The saas is process that is used to deployiong the web based service application that can easily accessed by different browsing system. This allows the

building applications and services over the internet .The process of saas is attached to service provider for hosting software by executing on demand charges as per usage unit.

Modern cloud services

Modern cloud services include cloud platforms such as Amazon's AWS, Microsoft Azure, and many more cloud providers. These are some common cloud service proviser that are used by organizations and individuals. Hence these pltfoms need to be considered by the organization sffas while considering the cloud services. The process of modern cloud service is the combiningthe resources and technical expertise and different data knowledge of “Tableu”. The process is used for morderinizing the analytics on basis of critical decision of cloud infrastructure.Enterprises migrating their products on different application that is based on tableau deploymenrt process on basis of lower operation cost on basis of optimization process of Tabelu subscription process\This used for validataiong Tableau and AWS that is equipped by MCA partners for guiding application architecture and tooling purpose. The process is connected some common cloud service proviser that are used by orgasnizations and individuals. Hence these pltfoms need to be considered by the organization sffas while considering the cloud services. The process of modern cloud service is the combiningthe resources and technical expertise and different data knowledge of “Tableu”. The process is used for competitive differentiator that is based on primary source of value generation techniques.This is used to collaborate migration to operation that helps the user for scaling cloud analytics by comprising data integrity and security of particular system. The complexity of modern cloud service isbased on applicable for maximizaing the value of particular data. The process is used as morderinizing the analytics on basis of critical decision of cloud infrastructure.This is used for building private cloud infrastructure of OpenStack system. The application of cloud is used as environment that is used for running the application. The modern cloud is application for maximizing the data analytics investing process.The modern cloud is process that is used to mordernizing the user analytics process on basis of critical decision and cloud infrastructure process.

Conclusion

The cyber security architecture is applied to the sector of virtualization that is used for sharing scalable resources across the network. The strategies of cyber security is used for portable. Cloud cyber system is computing is applicable to application programming interfaces. on basis of virtual private network. The virtual private network is used for configuring virtual program that is used for managing UWTSD Birmingham. This is used for building private cloud infrastructure of OpenStack system. The application of cloud is used as environment that is used for running the application.