Assignment 8

Q.1 open source IAAS Software

=) Infrastructure as a Service is a service where an organization outsource the equipment used to support Storage, Hardware, Servers and networking components.

- open Stack is an open Source cloud Computing Project to provide an Infrastructure as a Service (IaaS) this integration is fulfilled through Public API's that each source offers.

- open Stack controls large pool of compute, Storage and networking resources throughout a data center, All managed through a dashboard this gives administrators control while empowering their users to provision resources through a web interface, IF delivery a massively scalable cloud operating system.

- The technology consits of a service of connected Projects that controls pool of processing, storage and networking resources through out a data center. All managed through a dashboard that gives Admins control while empowering its users to provision resources through a web - Interface.

Q:2 open Source Pass Software.

- Platform as a service is a category of Cloud computing Services which offers a way to support the compute lifecycle of delivery web Applications & Services via the Cloud.

- OKD (previously known as openshift origin) is a Pass computing platform as a service product from Red hat It is an application platform where application developers and teams can build test, deploy and run their Applications also take care of Infrastructure, middleware & management so that developers can focus on their App.

- OKD enables you to create, deploy and manage Applications within the cloud. It provide dock Space, CPU resources, memory, network connectivity and an engine or Jobs, Servers, Dependency on the type of application being deployed a template file system layout is provides OKD also generates limited DNS so your Application Accessible online.

- It provides support for a wide variety of language own times and dot layer including Java ESC, Ruby, PHP, Python, Perl, mongoDB mysql or Postgresql.

Q3 Open Source Saas Software

=) Saas is a distribution model where. 3rd third party is trusted with the responsibity or hosting application and make them available for customers with the help Internet.

- Cloudify is an open source Cloud orchestration framework. It helps in the automation of the entire lifecycle of an Application Cloudify enables users to deploy the Application in two ways.

1.) By opting For CLI only
2) By opting For the Cloudify manager

- Application configuration are defined through a blue prints that are developed on JAML DSL configuration files. these blueprint have complete information regarding the Application life cycle starting from installation its monitority

- Feature

1. local Blueprints
2. RT governance & security
3. Blueprinting modeling
4. TOSCA orchestration
5. Built in node types

Scanned with CamScanner

Q:4 open Source Cloud Simulator Software

- CloudSim & Cloudsim is a new, highly generalized and extensible java based simulation toolkit, and actively regard as software fragment
- It support several core functionalities like Queuing & Processing of event. the creation of CloudSim entities, communication among components and the management of the Simulation clock.

Cloudsim has been developed by the cloud laboratory of the computer science & software engineering department of the university of melbourne.

this toolkit enables seamless modelling simulation, and experience Future cloud computing and Application Services

* features

- Support modeling and Simulation of large Scale CC data centers.
- Support modeling and Simulation of virtuise server hosts, along with customisable policy
- For Provisioning Host resources to virtual machine
- Support dynamic inclusion of Simulation event descontinuations.
- support the Creation of various data center N/w topology, message passive. Application

Q05 open Source Distributed System Software.

- this Apache Hadoop Project devlop open Source software of reliable, scalable, distributed computing
- The Apache Hadoop Software library is a f/w that Allows for distributed processing of large data, sets Across Clusters - by computers using simple models.
- It is designed to scale up from single servers to thousands of machine each offering local computation & storage Rather than relying on h/w to deliver high-availability the library itself is designed to detect and handle Failures at the Application layer, so delivering highly available service on top of a cluster of computers of each of which may be prone to Failure.
- Hadoop Common & The Common utilities must support the other hadoop modules.
- Hadoop distributed file system :- HDFS is a distributed files System that Provides high-throughput Access to Application data
- Hadoop YARN :- A framework for job Scheduling web cluster resource management