Unit-4 - Developing Applications:

Question 1: Write any two different development platforms and talk about their strengths and weaknesses.?

Answer

Strengths:

1. Using Google Gears we can create offline web applications and it is open source.
2. Using Google app engine, we do not have to worry about buying servers, load balancers, or DNS tables—Google handles all.

Weaknesses:

1. App Engine is similar to a data store. It would not do the complex things that Oracle will allow.
2. In Google, The database stores information on more than one server. That means that if one server starts asking for information, inter server traffic can slow everything down.
3. If two users are trying to get at the same data at the same time, access can become slow and expensive.

Question 2: Define Google Gears and Force.com?

Answer

Google Gears - It is a development tool and an open-source technology for creating offline web applications. As an example, Google Reader feed reader (http://reader.google.com) is available with Gears enabled offline capabilities.

Force.com - Force.com for Google App Engine is a set of tools and services to enable developer success with application development in the cloud.

Question 3: Define Microsoft's Azure Services Platform? What it offers?

Answer

Microsoft's Azure Services Platform is a tool provided for developers who want to write applications that are going to run partially or entirely in a remote datacenter. Azure Platform forms the foundation of all Microsoft's cloud offerings.

It offers cloud applications for customers such as Windows Live, Microsoft Dynamics, and other Microsoft Online Services for business such as Microsoft Exchange Online and SharePoint Online.

Question 4: What is Intuit QuickBase?

Answer

Quick Base is an application development platform that enables people to build business applications without coding. The platform is cloud-based and accessible on any browser or mobile device

Question 5: What is Cast Iron Cloud?

Answer

Cast Iron Systems introduced its development platform, Cast Iron offers the choice of a completely cloud-based integration service or an on-premise integration application. Using Cast Iron Cloud, Companies must be able to integrate SaaS solutions with other enterprise systems to effectively arrange cross functional business processes.

Question 6: Define Bungee Connect?

Answer

Bungee Labs offers its Bungee Connect web application development and hosting platform. Bungee Connect provides development, testing, deployment, and hosting in a single, on-demand platform. Developers use Bungee Connect to build desktop-like web applications that control multiple web services and databases.

Question 7: Define development platform Google App Engine and Salesforce.com?

Answer

Google App Engine is the perfect tool for developing app on the cloud, we do not have to worry about buying servers, load balancers, or DNS tables—Google handles all. Google uses Python for developing apps.

Salesforce.com has two ways to create an application—using point-and-click methods or by using the command line. Create an application http://developer.force.com/join. Salesforce.com

is alliance with Google such that Force.com now on Google App Engine. Salesforce.com to build, run, and deliver new applications on the Web.

Question 8: What are Local Clouds and Thin Clients?

Answer

A local cloud—also known as presentation virtualization—skips the service provider component, and allows you to manage all the content yourself in your own datacenter. With a local cloud, you keep your server in-house and clients connect.

Thin clients are client computers that have no hard drives, no DVD-ROM drives. It simply display what is on the server. All the data resides in your datacenter or on the cloud

Question 9: What is presentation virtualization? Hint : Local cloud

Answer

In this method it is possible to run an application in one location (the server) but be controlled in another (the thin client). In this method it is possible to run an application in one location (the server) but be controlled in another (the thin client).

Question 10: What is Virtualization? Write different terms

Answer

Virtualization means to create a virtual version of a device or resource, such as a server, storage device, network or even an operating system where the framework divides the resource into one or more execution environments.- *Server virtualization- Application virtualization-Presentation virtualization*

Question 11: Define a) Server virtualization b) Application virtualization?

Answer

Server virtualization: This is a method of partitioning a physical server computer into multiple servers. In this case each has the appearance(look) and capabilities of running on its own dedicated machine. An example of this is VMware or Hyper-V.

Application virtualization: This is a method that describes software technologies that separate them from the underlying operating system on which they are executed. A fully virtualized application is not installed.

Question 12: Why Virtualize? Write any two free virtualization software?

Answer

Virtualization can help companies maximize the value of IT investments. While increasing the flexibility(elasticity) of the overall environment.

Two free virtualization software are 1. Microsoft virtual server 2. VM ware

Question 13: Write any two Concerns in virtualization

Answer

Video cards cannot handle the requirements of a high-performance graphics adapter. Gaming, CAD, and software requiring three-dimensional graphics are not ideal for a virtualized environment. Databases and business intelligence software are also poor matches for virtualization. because they require a lot more memory and processor power.

Question 14: Write pros and cons to going virtual?

Answer

PROS

- Using Virtualization to Increase Availability
- Disaster Recovery

CONS

- Extra Costs
- Software Licensing

Question 15: Write any two server virtualization products?

Answer

Two Server Virtualization products are

- Microsoft Server 2008 Hyper-V
- VMware, and VMware ESX.

Question 16: Define Microsoft Hyper-V ?

Answer

Microsoft Server 2008 Hyper-V (Hyper-V) is a hypervisor-based virtualization technology that is a feature of select versions of Windows Server 200

Question 17:Define VMware?

Answer

VMware offers its VMware Server, a free entry-level hosted virtualization product for Linux and Windows servers. The product is available for download at www.vmware.com/products/server/

Question 18: Define Sun Ray and 6720t Mobile Thin Client?

Answer

- Sun Ray - Sun's thin client solution is called Sun Ray,Sun Ray machines are able to display Solaris, Windows, or Linux desktops on the same device.
- 6720t Mobile Thin Client - 6720t Mobile Thin Client ideal for insurance claim processors, remote staff, warehouse and inventory managers, and office administrators.

Question 19: Define OptiPlex thin client?

Answer

Dell also offers a thin client their most recent additions are a line of OptiPlex thin client, OptiPlex systems feature new technologies in serviceability, manageability, security, and power consumption to help simplify day-to-day operations while reducing operating expenses.eg: OptiPlex 760, OptiPlex 360:.