



MOOLJI JAITHA COLLEGE, JALGAON

Faculty of Commerce & Management
Professional Courses

COMPUTER LABORATORY

Name Saurabh Vasant Nimbolkar
Title of Practical Study and Implementation of IaaS
Class ITBCA Batch 02 Performed on _____
Roll No. 43 Practical No. 01 Submitted on _____
Remarks _____ Returned on _____

- Infrastructure as a service -
Infrastructure as a service is a cloud computing model that provides on demand access to computing model services storage, networking virtualization. studying and implementing infrastructure as a service (IaaS) involves understanding virtualization resource management and scalability.
choose a cloud provider like a AWS or Azure & explore service such as virtual machine storage and networking to build and manage infrastructure dynamically clearly outline your infrastructure needs considering computing power storage & networking requirement.
- 1) select cloud service provider (CSP)
clearly outline your infrastructure as a service provider such as AWS

your or google cloud based on your specific need budget and performance.

- 2) create an account -
sign up for an account with service & setup information.
- 3) access cloud console -
log into the cloud provider console to access the management interface.
- 4) Create virtual machine (vms) -
launch virtual machine according to your require specifying the operating system compute power & storage
- 5) configure networking -
setup virtual network define subnet and configure security group or network access control list to control traffic.
- 6) Allocate storage -
utilize cloud storage services to allocate storage volumes for your virtual machine.
- 7) Backup & recovery -
implement backup strategies to ensure data durability & establish recovery process in case failurs.
- 8) security measures -
setup enhance security firewall by



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configuring firewall encryption & identity
& access management setting.

g) monitoring & logging-

setup monitoring tools to load the
performance of your infrastructure &
configure logging for better visibility
into system activity.



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COMPUTER LABORATORY

Name Saurabh Nasant Nimbotkar
Title of Practical Study of Cloud Computing & architecture
Class TYBCA Batch _____ Performed on _____
Roll No. 43 Practical No. 2 Submitted on 20-1-24
Remarks C Returned on _____

* what is cloud computing and architecture.
→ cloud computing is a technology paradigm that enables access to and utilization of computing resources over the Internet instead of owning physical hardware.

cloud architecture refers to be design and structure of cloud computing system. it encompasses the arrangement of components.

Steps -

- ① open whatsapp
- 2) Then go to any chat and we can send or receive message or text.
- 3) In updates section we can see the statuses and various channels in whatsapp.
- 4) In call section we can use the create a link for vedio or audio calls

5) In community section we should operate various channels.

6) Click on settings then go to storage and data it shows the storage of chats, that you have talked or send files.

7) In privacy section you can set various access barriers.

8) In account section you can see various information about your whatsapp Account.



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COMPUTER LABORATORY

Name Saurabh Vasant Nimbalkar
Title of Practical Installation & configuration of virtualization using KVM
Class TYBCA Batch 02 Performed on _____
Roll No. 43 Practical No. 03 Submitted on _____
Remarks _____ Returned on _____

Virtualization is software that separates physical infrastructure to create various dedicated resources it is the fundamental technology that powers cloud computing

Virtualization makes server workstations storage and other system independent of the physical hardware layer this is done by installing a hypervisor on top of the hardware layer where the systems are then installed

• How to install KVM virtualization-

- 1) Run the virt-manager command to open the virtual machine manager.
- 2) Click create a new virtual machine
- 3) On the wizard enter a name for the virtual machine.

- 4) select local install media click forward
- 5) select used iso image and click & Browser to select the product iso file.
- 6) select the operating system or linux with generic 2.6x kernel
- 7) click forward enter the memory size or 1024 MB.
- 8) select the network bridge select customize configuration before install click finish.
- 9) select the number of cpu's for example 3 click forward.
- 10) click add Hardware.
- 11) Repeat step (10)(11)
- 12) provide the following user credentials when the system restarts after the virtual appliance
 - unconfigured login: admin
 - password: admin

* Configuration

- 1) check Hardware virtualization support.
- 2) Install KVM
- 3) create network Bridge
- 4) configure network gateway
- 5) create virtual machine.
- 6) connect to KVM and install server
- 7) Install true conf. server.



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COMPUTER LABORATORY

Name Saurabh Vasant Nimbolkar
Title of Practical study and implementation storage as a storage
Class TYBCA Batch _____ Performed on _____
Roll No. 43 Practical No. 5 Submitted on 20-1-24
Remarks _____ Returned on _____

* Study and implementation storage as a storage
→ SaaS is a managed service in which the provider supplies the customer with access to a data storage platform. The service can be delivered on premises from infrastructure that is dedicated to a single customer. The SaaS service can be used for data transfers and redundant storage, as well as to restore corrupted or lost data. CIOs may also appreciate the ability to tailor storage capacity and performance per workload.

Steps

- 1) open LinkedIn
- 2) In Home page window you can see followed person posts.

- 3) In search section we can search for Jobs.
- 4) Click on my network section. you can manage or invite the peoples in your network.
- 5) In post section you can add post or create post.
- 6) Click on notifications sections you will see Here various notifications related jobs or etc.
- 7) Click on jobs section and Here you will find or see jobs available or vacancy according to your LinkedIn profile.
- 8) In profile section you can manage your profile according to your qualification.
- 9) In setting you can also have help center.

- we can use linkedin in this practical as software as a service.
- software as a service means providing an software over internet cloud, services that interact direct with user.



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COMPUTER LABORATORY

Name Saurabh Vasant Nimbolkar

Title of Practical study and implementation of identity management

Class TYBCA

Batch _____

Performed on _____

Roll No. 43

Practical No. 6

Submitted on _____

20-1-24

Remarks _____

Returned on _____

* Study and implementation of identity management.

→ Identity management in cloud computing is the subsequent step of identity and access management (IAM) solutions. Innovations in the user identity management space have been a trend in the past couple of years. This next generation of IAM solution is a holistic move of identity provider right to the cloud. This particular service is the advanced version of the conventional and on-premises solutions.

Steps-

- 1) open google files
- 2) Then in categories section see the downloads, images, vedios, and other files.
- 3) you can see collections that have favourites and safe folder.

- 4) Then we have another category as "storage devices" that have Internal storage and external storage.
- 5) we can also set files hidden using settings → safe folder or set app lock also.
- 6) we can also see clean, Browse and Nearby share section for other utilities.



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COMPUTER LABORATORY

Name Saurabh Vasant Nimbalkar
Title of Practical Study of cloud security management
Class TYBCA Batch 02 Performed on _____
Roll No. 43 Practical No. 07 Submitted on _____
Remarks _____ Returned on _____

* Study of cloud security management.

cloud security management is not a single concept or product it is actually complete-mandatory combination of strategies tools and practice that are intended to help a business host work loads and data in cloud efficiently & cost efficiently got limit the threads & vulnerabilities that often present in a complex public network as well as shared cloud resource & services.

* steps for performance or graduate cloud security management.

- 1) ensure effective governance and compliance most organization here security, privacy, compliance & procedures to protect their IP addresses.

2) Audit operation & business process-

It is important to audit the compliances of IT system.

Vendors that host the application & data in cloud.

3) manage people, roles & identities.

Using the cloud means there will be employees from the cloud service provider that can access the data & application.

4) proper protection of data-

The security & protection of data both at rest & in transmit need to be ensured.

5) Enforce privacy policies-

privacy & protection of personal information & data is crucial especially as many companies & financial institutions.



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Name Saurabh Vasant Nimbolkar

Title of Practical Write a program web feed

Class TYBCA Batch 2 Performed on _____

Roll No. 43 Practical No. 8 Submitted on _____

Remarks _____ Returned on _____

* Write a program web feed

Define- web feed is the data format providing frequently updated content to the users the content distributed syndicate a web feed to allow the users to subscribe feed content web feed is also known as the syndicate feed or new feed.

• How to use web feeds -

when a website is a first visited the browser will look for the feed & if a feed is a available the feed icon will changes color. The browser website to subscribe feed the subscribed feed can be see in favourite centre to see the feeds can be seen centre button & then click feeds.

Steps -

- 1) set up a cloud account & log in to the cloud platform.
- 2) select the appropriate cloud services for hosting your web feed like AWS S3 for storage
- 3) upload your feed content to the cloud storage.
- 4) configure permission & access setting for your feed content
- 5) set up a searchless function or a service to generate & update the feed content dynamically.
- 6) test your web feed to ensure it's working correctly in cloud environment
- 7) monitor & manage your web feed keep it running smoothly.



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COMPUTER LABORATORY

Name Saurabh Vasant Nimbolkar
Title of Practical Study of implementation Single sign on
Class TYBCA Batch 2 Performed on _____
Roll No. 43 Practical No. 09 Submitted on _____
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* study and Implementation of single sign on (SSO).

- SSO work based upon a trust relationship set up between an application, known as the service provider identity, provider known as a like one login. This trust relationship after based upon certificate their exchanged between identity provider the service provider.
- In SSO the identity data takes from of tokens which contain identifying bits of information about user like email address Username.
- single sign on process that allow user to access multiple application or service with a single set of login credential.

Steps- we can use google for sso use.

- 1) firstly create a google account by entering name, date of birth, create new gmail account
- 2) Complete sign-up process
- 3) Agree terms and conditions
- 4) account create successfully
- 5) Then you can login using your google account in various application like website application etc.
- 6) open you-tube in chrome then you will automatically login.
- 7) you can login from one google account to many services application.



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Name Saurabh Vasant Nimbalkar
Title of Practical User Management in cloud
Class IVBCA Batch 02 Performed on _____
Roll No. 43 Practical No. 10 Submitted on _____
Remarks _____ Returned on _____

* what is user management

- User management (UM) is defined as the effective management of the users and their account, giving them access to various IT resources like device application, system and more.
- Authorization platform in turn maintain an active directory of users serving essential function such as services management HR or security.

* User management software -

- it is important to note that some software asset management (SAM) and IT software management (IISM) solution offer user

* management system -

- it is generally agreed upon that IISM solution offer better function than SAM solution

They sometimes cannot recognize the difference between software license and user control

* User management Requirement

1) Delivered from the cloud

2) multiprotocol

3) High security



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Name Saurabh Vasant Nimbolkar

Title of Practical Study of SaaS (software as a service)

Class TYBCA Batch 2 Performed on _____

Roll No. 43 Practical No. 11 Submitted on _____

Remarks _____ Returned on _____

* Study of SaaS (software as a service)

- SaaS is also known as "on demand software". It is a software distribution model in which services are hosted by a cloud service provider. These services are available to end users over the Internet so the end user does not need to install any software on their device to access these services.
- We can use LinkedIn in this practical as software as a service.

steps -

- 1) open LinkedIn
- 2) In home window you can see followed person post.
- 3) In search section we can search for Jobs.

4) Click on network section

5) In post section you can add post or create post.

6) Click on notifications related section you will see here various notifications related jobs or etc.

7) In profile section you can manage your profile according to your qualification.

8) In help centre you can have help centre.



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Name Saurabh Vasant Nimbalkar

Title of Practical Study of PaaS (Platform as a service)

Class TYBCA Batch 02 Performed on _____

Roll No. 43 Practical No. 12 Submitted on _____

Remarks _____ Returned on _____

* Study of PaaS (Platform as a service)

PaaS - platform as a service cloud computing service model that allow or provides a platform allowing customer to develop run, manage application over cloud.

- you can purchase these application from a cloud access them using internet connections pay as per use basic in paas provider back end scalability it managed by cloud service so end user do not need to worry about managing infrastructure.

Steps - we can use facebook as PaaS

1) open facebook

2) create an account

3) fill name, email, mobile, and create account.

- 4) profile setup and information filling
- 5) find friend or search profile using facebook id
- 6) In post and share section you can share adapters photos and vedios.
- 7) lilce, comment and share nots and also join groups follow pages of your interest.
- 8) Click on setting - Adjust. privacy setting to control who can see your post and personal information
- 9) explore additional features.
- 10) you can security setting like two factor authentication.
- 11) Adjust, notification using notification section like friend refuests mesage and other activities.