

	TSEC
	Eligitation tours
10	Experiment-2
	Aim = To Study and implement hosted
- Mana	vistualization Using virtual Box and kur
<u>*</u>	= virtualization in cloud corputing
	Technique nots to report
	1 - I I I I I I I I I I I I I I I I I I
- '	
	Virtual vession of something like computer handles
0	* Benifits of virtualization
	- More flexible and efficient allocation of resources
	-> Enshance development productivity
	- It lowers the cost of IT infocustaucture.
	-> Remote access and trapid scalability
	> High availbility and distaster recovery
	> pay peouse of the TT infrastoucture deman
	> Enorbles running Multiple Operating system
	Sharrang O
	* What is hypervisor give examples?
	IN DESCRICTION OF VICTORIA
	used in doubt hosting to allighe and allocate the
	I MANUE DIOCE & OF MOTORIAGE
	12
,	11.01.09 /124001 1000
	* Explain the types of hypervisor
	Type of hypervisor -
- 400	this kind of hypervisor and addition hypervisor host system It is also known as a native hypervisor host system. It is also known as a native hypervisor
- N. 17.5 - 17.5 - 1	
-	base Server operating System
	Ex= Critix xenserver Microsoft Hyper-u hyperistor
	CV - COLITY WATER

" " " ||



	Lype 2 hypervisor  A host operating so  Lying host system Tet is  hypervisor such kin of he  clirectly over the underlying  mas as as oppolication	* STEEGE
	ying host such	Sten
	hypervisor such kin of he clibertly over the underly man as an application	also be on the under
- 1	our the contain	pervisor dose hosted
to Stillings on the	clibertly over the underlying or the conderly over the underlying or opplication	of pardrage sett son
		Mac d
	comparisons between vis- virtual Box is type o	The state of the s
-)	Vireling Box	tual Box and Kin
	bar box is type?	tvm ·
	Virtual Box is type 2	RUM is type 1 hypervisor
	The state of the s	which paouides better
$\Rightarrow$	User-Friendly provides a	- Striding
S 8 115 5	interface that	Command line staraigh
	easter for beginners to	Command line fools a
	easter for beginers to	Apris, Making it sutable
The state of the s	1 1 1 1 1 1	and ystem administrator
	Withallow Wellow !!	
	Charles Sand	1010101010
a valor	the same level of hardings	the uning teatures
	the same level of hardbane Compatibility as king	which allows business
	Compatibility as kum.	virtual machines within
	10 1 500 40	virtual machines
V	04:44. 100	
1	Violate Box has Amitations	Kum allows for chromic allo
00	o society management which	(Cotton of Deanuer lib on
M	15 less suftable in resource	and memory to virtual
614	intensive application,	
4		ASSESSED NO. N. C.



	Experiment -3
Aim	= Too Study and implement base retal virtual
1111	Zation Using Xen
	ctions performed by Bare-Metal hypervisor
tun	CHIONS PERFORMED STORY OF OF TUPE
A	sake metal hypervisor also known as a type
12/	repenvisor directly soms on the base metal how
111	se of a phisical manhine it primary with
11:1	to Mandal find allocate ocsopoles to themps
Min	I Machine (VM3) each running ITS own operat
50	istem. Here are they key trunctions performed
a	rge Metal hypervisor.
	at a series
-> P	esource virtuatization
Y	M Creation and management
1	adducte abstraction
1	Le source allocation and Scheduling
	Isolation and security
	ive Migration
5	napshot and cloning and optimization
	Hardware pass through
	totegration with management tools.
(11	Compare hosted and bare metal hypervisions
10/1987	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	Hosted hypervisors Base Metal hypervision
20-1-6	Hosted hypervisors are Base Metal hypervisor are
	also called as type 2 hyper Called as type 1 hypervisor
	Conventional operating UMS running on them
	Conventional operating VMS sunning on them



Hosted hypervisors Base metal hypervisors
In hosted hypervisor while in Base Metal there there is as vistualization is hardware virtualization
Not much scalable bease while Base metal byper of its beliance on the visor provides better underlying as scalability
this are slower hypervisor this hypervisor are beause of systems feaster as compared to alepenatency hosted one
It has deduced perform It has higher performance rate as it runs noe as there's no boith extra overhead middle layer.
(1)
Horizontal land vertical scaling:  Horizontal Scaling is also known as scaling out  involves adding More machines or nodes to a  system to handle incressed load or demand  Vertical Scaling is called as Scaling up involves  increasing the apacity of an individual machines by adding More resources such as apumenty
by adding more resources such as apu. Menny or storage



	CHOICE WAS COLLECTED AND ADDRESS OF THE PARTY OF THE PART
acerd of	Experiment. 4.
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	Aim = To Study and implement infrastructure
	a service Using AWS.
	The same of the sa
	Theory: Comate could)
1	
1	Amazon Ecz provides on demand scalable comput Amazon Ecz provides on demand scalable comput
	Capacity in the Amazon Loeb Services (ALDS) Cloud
_	1000000
334	> Instances (virtual Services)
-	
	the components you need for your server including opening System and additional software)
_	-) Instance types:
	I minus Continuation of the Hemory storage relati
	ing Capacity and graphics hardware for your mains
	> key pairs =
	secure log in information for your instances flus stores the public key and you store the private key in a
	Secur place
	> Instance Store Volumes for temporary data that is defere
	cohen you stop hiberate or terminate your intences
	17 h an imme control
	in Amazon Markine image (AMT) An AMI is a Supported and maintained image Provided
	by AMS that provides the information sequeled to
	taunch an instance.
	My AMI Contains the following
,	(Amazon EBS)
160	



The state of the s
Snapshots or for instance Store backed AMIS atemp
ate for the root volume of the instance.
2 laurch permissions that control which Alus accoun
Can use the AMI to launch intences
> A black device Mapping tent specifies the volume.
attach to the Instance when its launched
a second
Types of Ecz Computing instances:
The prose intorned
Tompute Optimized intences
- Intemory optimized instances
2) Torque Optimized instances
-> Accelerated computing instances
The state of the s
iv] Flastic IP Address =
An elastic ID anhance is a static publication
Holdiess designed for dynamic cloud compition man
can as sociat an Elostic ID Heldress with an
Instance or reteapric interface in any upon
Account
V) Remote desk top protocal (RDP)=
RDP is a secure network protected developed by
Microsoft It enables network adminstrators to
remotely diagonese problems that individual
users ecounter and give users remote
access to thick physical cooric desktop
Computers.
Big Can be used by Employees coording from
home of travelling who reed access to their
Canal Villas.