

POORNIMA FOUNDATION

DETAILED LECTURE NOTES

Campus: Course:	Class/Section:	Date:		
	Unit - 2			
Claud 20P- M. 1-0	The la combuting of	reference mandal		
Olond Reference Model-	that almost desires our	1-Standards		
Is an abstrart model that characterizes and standardrzes The functions at a child and the functions				
parties has tilias is a la l				
the functions at a cloud computing out ironment by partition partitioning it indo abstraction layers and cross				
layer tunctions. This reference model groups the				
cloud compating fun	ctions and antivities	into five		
logical Dayers and three cross layer farctions.				
Mangment Service Zayer	Selferice Service Cataly	Business Serverity Continuity		
Service	Layer			
layer	Layer			
	Ca Jan I			
Contral	Sof-Iware			
Layer - Point	udrationlayer -	Tolorine Servisi		
[service Ivir	Inalization Virtual Krsming	Kecherainal		
PCE 0 -	THE CONTRACT OF THE CONTRACT O	1 1 1 Prhanks		
Management & Physicallaye		phration		
Service physicalle it	Compute [Wholvard] Stuck] Ba	rkup akc		
[Rangmen]				

Physical Physical Layer - Executes requests generated by the Virtualization and controllayer.

Virtual Layer - Abstracts physical resources and makes them appear as virtual resources (enables mutidemant anvironment). Executes the requests

generated by control layer.

Control layer - > Enable resource configuration.

- -> Resource pool configuration
- -7 Resource grovisioning.
- D Exercites regulates generated by a service layer.
- -> Exposes resources to and support theservice layer.
- Alaborates with the virtuelization software emables
 resource planning and ereating virtual resources,
 dynamic allocation and optimizing utilization of
 resources.

Service Orchestration layer - Provides work flows for exercuting automated tasks. Interests with Various ontities to involve provisioning tasks.

Consume

Service Layer - Consumers interact and cloud resources via this layer.



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1	npus: Course: ne of Faculty:		ct:	Date:			
Cloud Computing Services							
	OSOHWare As a services a Google Services CAPPS)						
	2) Platform As a service Azure AWS wers (3) Infrastrutures as a Service Manageby users Aws S3						
	3 Infrastr	utures as a Sp	rvice Mana	geby Recspace, Aus sz			
	Onfremises	I AAS Manage sol	000	JAAS			
	Applications	PAPplications of	TApplica dians	J. Applications?			
	Data	Dada .	Dara	Dala			
Joy narag	Runtine	Rundime	FRundime-	Rundine			
	e Middlewore	Middleware	Middlewan	e Middleware			
	0/5		0/5.	OK			
	Virduelszadian	p Vir Aualization	Nir & walis Zontion	Virtualization			
	Servers	Servers	Cowers.	Servers			
	Storage	Storage	Storage	Sdarage			
	Networking	L Networking	Medwaring	Networking			
		Manage 53	Mangeby	Allerviers			
		Service provider	Service	manger by service			

Is on demand access to doud - hosted physical and IAAS - Virtual Servers, Storage and metworking the backend IT infrastructure for a running applications and work load in doud.

PAAS- Is on - domand access to complete, ready to a use, cloud hosted platform for developing, a running, maintaing and managing applications.

SAAS- Is on demand access to ready to use cloud hosted application software.

Types of cloude

Examples.

for Saas

Google Workspace, Drophox, Salesforce, Go To Meeting

Paas

Google App Ergene, Windows Azure

IAMS

Amazon Web Service

Microsoft Azure,

Digital Ocean



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Campus: Course:	C
Types of cloud Dentic cloud Derivate clo	and (3) Aubrid cloud
Public cloud 2 Private cood	
Public cloud-	by third parties which
Public dond- Public donds are managed provide cloud services over t public, these services are you go billing models.	he internet to the svaidable as payas
(3) Trose deploy Globally.	
The fundamental chara public clouds are A public cloud offer	musittnancy.
minimizing IT infrast horame a good o	ption for handling
100ale loads on	the local infrastructure

Private cloud- These deploy locally. (1) Private clouds are distributed systems that work on private infrastructure and provide the elisers with dynamic provisioning of Computing reseources.

2) Instead of a pay - ac-you-go model in private clouds, there could by other schemes that manage the wage of the lond and propostionally billing of the different de portments or sections af an enterprise. 144brid Cloud - Combination of public and private cloud. It is a het rogeneous distributed System formed by Combining facilities of public cloud and private cloud. Hybrid cloud Hook advantage of public and private cloud. Community Cloud-Community Usprs Enterprise p Cloud => Enterprise Q Struce provides Ender prise of