



8.2 SERVICE LOAD BALANCING

- > It is ansidered a specialized variation of workload distribution for scaling cloud scruices specifically for scaling service implementation.
- Redundant deployments of cloud services are created, with a local balancing system added to dynamically distributed workloads.
- The duplicate cloud service implementation are organized into a resource pool while load balancer is positioned as either an external or built in component to allow the host servors to balance the workload themselves
- Depending upon the onticipated workload and processing apacity of host sorver environment, multiple instances of each doud service implementation can be generated as part of a mesource pool that mesonds to thickating measurest volumes many efficiently
 - The load balancers can be positioned either independent of the cloud sorvices and their host sorvices on built in as part of the application or servers environment in the lower case a primary server with load balancing logic can communication sor servers's environment in workload.



->	The service load balancing logic orchitecture can?
	involve the following mechanism:
Plann	success to destining the sidning of working of the
1	1. CLOUD USAME MONITOR - cloud usage monitors
	and may be involved with
	monitoring cloud services
b	instances and then nespect.
	it resources consumption
U	revels, so to to directarb
loscial	2. RESOURCE CLUSTER- active cluster groups and
	incomposated in this wichitecture
	to help bolance wonkload across
	different members of cluster
3.	RESOURCE REPUCATION - It is utilized to general
	cloud service implementations
ocation	in support of load balancing
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	resultie benedizan ed (no) cremelned boot adt to
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	to gottonique and he tree on active no nivers
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DOCKER ARCHITECTURE - It follows dient-server anchitecture 23 which includes the three main components that are pocken client. Docken Host and Docken Registery DOCKER CLIENT - It uses command and nest Api to communicate with docker doemon, when a client nuns any docker command on docker client terminal, the client terminal send these docker commands to docker daemon. Docken daemon nereives these Commands from docker dient in form of REST API'S Mequest-DOCKER HOST - H is used to provide an envisionment to execute and sun applications. It contains docker damon, images, containors, networks and storage Docker REUNISTRY- Docken negistry manages and stones images. There are 2 types of oregisteries in docker · PUBLIC REGISTRY - It is also called as docken hub · PRIVATE REGISTRY - It is used to share images within the enterprise





	other docken objects are - Docker IMAGNES	1 60
	DOCKER CONTAINERS	
101	1) DOCKER NETWORKING	
N P	101000 DOCKER STORAGE	
یا		
# (190	Docken differs from vintual marties in following	ways:
->	OS SUPPORT & ARCHITECTURE	
D.D. INCH	the dealer and the design the second the sec	
32	muest os can be any os like linux on Window. Docken containes host on a single physical server host os, which are shared among them	
->	SECURITY On shivary of been at II - 12011 Stathood	2.
ed mace	uns are stand alone with their kernel and secures	nity
	a the flinside avoiding ground areess to application	on
2500	and running thew with administrative premisis	is . 8
→	PERFORMANICE A SAME ASSESSED A	
	UMs are more resource intensive than docker	
	Lightweight architecture of docker container is	less
AHAT	gresource intensive than VMs	
	91850 Wile Million VC Trient	