Cloud Architecture Terminoligies: -

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doud Architect:
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Solutions aschi
Solutions architecting technical solutions using architecting technical solutions using aloud services
Condisiderations when designing cloud auchitecture:
Condisideration
Availability Elasticity - Ability to shrink & grow
Availability Elasticity - Ability to prevent failure
Fault Tolerance - Ability to preven
Availability Elastical Tolerance - Ability to prevent failure Scalability Fault Tolerance - Ability to prevent
Disaster Recovery (Highly Duable)
Disaster Della la
CWix
(Security) How secure is the solution?
(Security) How secure is the solution?
(cost) How much 18 17 John
(Security) How secure is the solution? (Lost) How much is it going to cost?

High Availability: -Ability for your service to be available. * ensuring there is no single point of failure * ensure a certain level of performance. solution: Running your workload across multiple AZS. evenly distribute traffic to multiple servers. Elastic Load Balancer: If the boloneer server/datacenter becomes unavailable. Load balancer will route traffic only to available servers. High Scalability: Increase your capacity based on the increasing demand of traffic. memory and computing power. Vertical Scaling: - Scaling: Scaling Scaling out Scaling up Add more servers of samora size. sacolation bigger server upgrade to a

Ability: to increase decrease your Capacity on current demand of traffic, memory & computing * with a contain tract of prefermance.

Horizantal Staling :-

Scaling Out: Add more servers

Remove under utilized servers

Auto Scaling Groups 1- Aws feature that will automatically add or remove servers.

Highly Fault tolerant :

Ability for your service to ensure there is point of failure.

Fail-overs: - plan to shift traffic to reddindant System in case primary system fails.

RDS Multi-AZ!

when you run a duplicate stand by database in another AZ in case your primary database fails.

riigh Durability: ability to recover from a disaster. Solutions that recover from a disaster

> Disaster Recovery (DR).

* Do you have a backup? Low backup? I want to de de de la montre backup? Low you restore backup?

* Does you backup still work?

* How do you ensure current live data icn't corrupt?

Duta is replicated to another region win cloud Endure Disaster Recovery.

Continuosly replicates your machines into a low cost staging area in your target Aws account and preferred region enabling fast and reliable recovery in core of IT data center failures.

Business Continuty Plan (BCP) !danment that outlines how a business will continue during an (unplanned disruption in services)

Recovery Point Objective: maximum acceptable amount of data loss expressed in time

Recovery Time objective: maximum amount of downtime your burinen can tolerate.

Disaster Recovery Options: LOW Back up & Restore You back up your data and after the disaster, you restore it to new infrastructure. G Hours Pilot light (RPO/RTO) → 10 mins Data is replicated to another region with minimal Services running. warm stand by (RPO/RTO) -> Minutes Scaled down copy of your infrastructure running ready to scale up. Multi Site Active -> Real Time Scaled up Copy of infrastructur resident of moisquirely borning another region. wither . Cost increases from low end to high end. פאנינים ל וח

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