Deloud formation: Converts Infrastructure into code ic coreates a template for any website and that template can be used at any location to crepticate it

Architecting For the cloud

- -> overflow troffic send to the claud
- Design for Failure
- -> Decarple your Components SOS
- > Elasticity
 - D Proactive Cyclic (weeks days team)
 - 2) Proactive Event (By metros)
 - 3) Auto Sealing by demand
- > Secure your application by giving Fixewall with giving Remissions & denying.

Wey Aschi tected

ewsity Pillage

Aws shorted Responsibility Model

Customer Data

Customer >

IAM, Platforms applications OS, Firewall, Network

Framework

Clientside, Seowerside, Enery Ption.
Network Traffic Protection.

Computes Storages DB3 N/w Regions 3 AZ3 Edge Locations.

Definition:

- 3 Data Protection ELBS 835 EBSS RDS
- -> Poivileage Management IAMSMFA
- > Infrastructure Protections VPC
- -> Detective Controls. Cloud Tooils Config. Claud Watch

a control to the following the grant were a solution of

- 2. Reliability:
 - > Foundation IAM, VPC.
 - -> Change Management claud Trail
 - -) Failure Monagement claud Formation.
- 3. Performance Efficiency.
- -> Compute Autos Caling
- 3 Database RDS, Pyromo DB, Redshift
- -> Storage EBS, S3, glacies
- > Space Time Trade off claud Front stelastic caches
 Direct connects RDS Read Replicas.
- 4. Cost optimizations
 - -> Matched Supply and Demond Autoscale
 - -> Cost effective Presources- Ecz strus Trusted Advisor
 - > Expenditure awarenes SNS. Claudwatch
 - -> offinizing over time Blogs Tousted adulgor.

- 5. Operational Excellence:
 - -> Preparation
 - > Operations code Comits Codestan etc.
 - -> Responses. claudwatch.
- -> Redshift for Bussiness Intelligence

 Elastic Map Reduce for Big Data Processing

 Consumings bringing to cloud is Kinesis
 - DEBS Com be detached and realached und realached whereas Instance Store Volumes Connot.
 - -> Instance Ephinoial Small time.
- DOPSWORKS Consists to mountain a.
 Consistent State

Chef oreceipes y = Opsworks Cookbooks

> Elastic Teronscoder > Starter > Starts workers > works. Deciders > Decide Flow

- -> Consolidated Billing discounts
- -> 20 linked accounts only
- → Billing allots.
- Schooltrail is Per accort and region to Combine them we need an s3.
- > Unreserved inistaces for Ecz are applied to the whole growp
- -> Aws organizations allows you to manage muliple Aus accents at once. Policies Cons be applied on the groups.
- -> cours account accors.
- > Resource groups is way of grouping the logs together. interest in the same
 - D Classic Global
 - 2) Aws Systems Manager Regron based.
- -> VPC Pearing must be in a diragle region.
- -> If they share only addresses them VPC Peering doesnot work.

to Constant I have

Judicit e

3 Direct Connect is to establish dedicated Connection from Parmises to Aus.

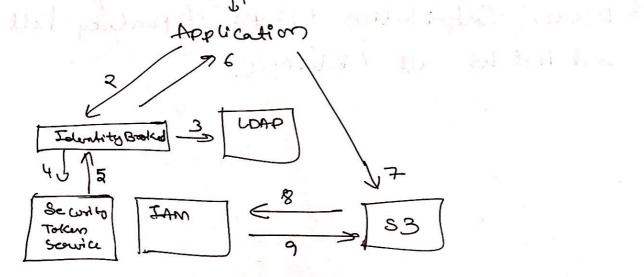
> logbps (GBPS ethernet VLAN touncking (802.10)

JVPN is fast and Direct Connect is Slow VPN has Internet whereas Direct Connect doesn't

-> Sewrity Tokens Access DFederation - SAML - Pb/gogle 2000 modern de 57

- Cross accord accers.

-> Identity Broker - A seewices that allows you to taken on identity A and Join it Identity & lore - Sendas like FB Identities - A user of Service like FB etc.



- Jusing & AMI we con authorticate Active Disectory
- -> Autenticate Active directory first and thens credentials are given.
- tor a traditional disktop.
 - -> windows 7 , Seewer 2008 R2.
 - -> Persistent
 - -> D: 11 us backed up every 12 hours
 - -> Do'nt need any two account to login to worksforce
- D'Elastric Container Service. Aws Dockers.
- Docker is a \$100 Platform that allows to buildstart and deploy applications quickly.
- -> Packages into Containers.
- 3 Dockers Contenitations estape depondarcy hell and isolates all Cointainers.