+ to + tondul 3-tier Anchitechture using console storalis strates : Terrate 1 create 33 bucket 4 create bucket in : and will delive Bucket name: demowebapp-bhorigav 15 try a clos Block : 10 nus Region: us-east-1 2 Navigate to IAM bashboard and create an ECL mole 3 do 2 model A tanduz-go- stoubed to make 1 Trusted entity type: Aws service DI-1100-2N : SONCE LATINGS LATINGS use case: Ec2 my ribe block: 10.0 4.0/24 : in oile the below permissions: i) Amazon SSM Managed Instance Core 3 to 3 to adult ii) Amazon S3 Read Only Access sadue - 29 - showing commit avoidopliff some: Us-ent Hilldoffers Role name: stier note 1 401 0.7 .0.01 Stola ago 6/9/ (3) create VPC (creditato) de proporti storo Resources to create: UPC only WALKOHE : SHOT MANGE Name: 3tienVPC 1PV4: CIDR: 10.0.0.0/16 polices - attach upo -> attenvec A create subnets Lieustos tau stono (3) VPCID: 3tion VPC ALMOTTAL : 3MD14 Subnet 1 of 1 i tradus - down ridur : tradus Name: Public - web - subnet 1 91 ritinto stonaUA Availability zone: Us-east-La Emmistop rais stom & 1PV4 CIDE Block: 10.0.0.0 24 Sharala Ponda subnet 2 of 2 Name: Public -uxb -subnet 2 = taddul -dala - side 1 taddul as standa almadia Availability zone: us-east -16 1PV4 CIDR Block: 18-0-1-0/24 10.0.1.0/24 00 20140+ 2009 (3) SHORSTON SILLIP : 2-MOLA subnet 3 of 3 Steech UPC: StienWPC Name: Private - Subnet 1 Availability zone: cise east - Lacon fibs - 13 brone of of WAT PORCE ! THE WIT

Steams party sent to them and -6 subnet 4 of 4 O costs sa burks Name: Polivate-subnete Availability zone: us -east-16 Be reproded - que demount : some sure 1- Una-IN cooking war 1PV4 CIDE Block; 10.0.3.0/24 Jubnet 5 06 5 Non est no store has broadens man of degiver (2) Name: Parivate-PB-subnet 1 Truly somity type: Aus service WE FASE S TEE Availability zone: us-east-1a capitalizated beday out will IPV4 CIDE Block: 10.0.4.0/24 Subnet 6 0 6 - 2102 sonotat bagaans mee ans ome (i Name: Private - DB - subnet 2000 placebood &2 ansma (ii I store made : a mon store -nvailability zone: us-east -16 1PV4 CIDE Block: 10.0. 5.0 /24 794 storrs (8) where saw; others of assessing 3 create Intomet gateway STYPOHE CONCH Name tag: 3tien IGW 21/0.00.01:000:000 Actions -> attach VPC -> 3HerVPC 2 tradul stom (1) @ create NAT gateway STURBLE : OF MIN Name: NATGW1 1 to 1 tandul Jubnet: Public -web-subnet 1 I tondus - down side ismois Allocate elastic IP of - 400 - th : sucz highly wa. 12 0.0.0.01 : Note 4015 4V4 (1) create NAT gateway Name: NATEW2 & it s Janduk subnet: public-web-subnet 2 standard down silder is more Allocate elastic IP AL- time - IN: ONE philipping

Route tables creation 1.0.01 + 1.0.01 + 1.0.01 AUDITION

Name: Public Route Table

select UPC: 3tienUPC

Go to moutes -> edit moutes -> Add route principal audit pestination: 0.0.0.000 in the select select

go to subnet Associations -> Edit subnet Association select public subnets All a leasont tout query i) Public - web - subnet 1 MIN WHE STV

shur knowdat site

122 - Morrotent-otover : smell

MAN SHELLIN

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lon

ii) Public - web - subnet 2 Then click on save associations.

Again go to create route table

Name: Public Route Table

MPC: 3tionUPC

Then go to edit routes - add soute

pestination: 0.0.0.0/0

Torget: NATEWI

Then go to subnet associations -> edit subnet association select Private-subnets > save associations. 915 moteus (16

@ create security groups.

NOTICE DESIGN Name: Intomet Facing - 16-89 pescription: Enternal load balancer security group

VPC: StienVPC

Edit inbound rule

MYSEL PHORONA TOSAN i)HTTP -> 0.0.0.0/0 -> Anywhere IPV4

ii) cultom top -> Anywhere IPV6 or op = 299 of ab create security Group. Name 1 3 the subset from

Next create another security group of mother was col-tuns-20: mos idilidoliona Name: Web Fier - Sq percription: WebTier Sq 1- +200- 10 VPC: 3ties VPC Subject : Private - DE - Subject 1 Private - DO - Subrable stare brugger Fib3

- i) HTTP -> Internet Facing -16-59
- (i) HTTP -> MYIP

create Another security froup to the continued of the dimare silder hone Name: Internal - 16-59 I to relate down of them? G percription! Internal - Lb VPC: Stien VPC Strate du - Sidefili Edit inbound sule PROPRIETAR SALE AND ALLE MAN i) HTTP -> WEBTICES & glabor silvane silvano est are microsi create mother security froup. SIGNET STOR STIGUE PROBLE Name: Private-sostances - 54 SANDER SHOWE Description: Allow stuce bear intum tibe of op near VPC: 3HET VPC actionation C-D-0-01 Edit Inbound sule INSTANT SANGE i) automotop -> TCP -> 4000 -> custom -> sorturnal -16-59 ii) custom TCP -> +CP -> +000 -> +000 -> My IP a create security framps. create another security group Norme: DB-54 percription: DB security Group and book Logratus (nothing) Daniel Interest Faing - 15 - 56 VPC: 34en VPC DEVENTE DIV Edit Inbound Rules Bille bayedai ABB

Mysel 1 Awara ->TCP -> 3306 -> autom -> Private -Instances-sq

40 to RDS -> 40 to subnet froups - 90+ motion (1) देशकाहे भूगेंगावाचा जाकार Name: 3 fer Subnet Group

> UPC: 3tiestype work flower stone stone twole Availability zones: Us-east-la Nome: Webpos - Se us -east -1b. Milater: nortaniss

subnots: Private - DB - subnots WIN WHE MAY Private - DB - subnet 2 when brouders libit

> side of the firming a sittle Her Earth (ii

→ nmazon Awrora (HysQL compatible)	
DB cluster Edentition: database -1	Magri Jenon Jeorga
Master username: admin	it sta cally was
master password: adminadmin	TRANE store fill
Multi-Az deployment	
create an Awrona Replica or Reader	node inadifferent Az
compute eresources	12964 quare topices
pont connect to an Ecz compute on	esource some
VPC: 3tienupc	Ocot : TITH
	SANLOHE : SAN
VPC security Group (tinewall)	Thealth
DB - 39	
Next uncheck turn on portugition	nce insights.
Hit create database	, OE
	008
(12) create EC2 Anstances	P
1) create an Instance with	create load personer.
Name: mytabrogad myappservers	Application lead balance
Instance type: te. micro:	Marine: app-list-LB-
Keypoir: proceed without a key Pair	- Lancins ()
	VPC : Stiesnpc
Network settings	buring 6 01-1200-20
subnet: Private-Subnets	security of care
security group: Private - soutances	- 29 Garage &
Advanced settings	
	offle stops sim
choose stierroles	
Then ash into instance	

(3) Now dick on myappiervoil then dick on Actions then go to Image and templete then create smage

mage name: Apprier Image indicate inciditaries will be

pekription: App Tien

Hit create smage.

biomyodysb sa-idlum (1) 40 to Target 4roups -> create Target group

target group type: Instances

135 rougher thomas target group Name: App Mentarget group

HTTP: 1000

VPC: 3tienUPC

/health

200

5 201 so procreate of target group in how have stodatob story tiv

Him sometime on store (

STUMBER JAN

Evaptine sos storo (4)

charéo i smp a restu cotate

njarko nimko i krowituri mitori

(Bowskie) quero estreusse ser

(15) create load balancer

Application Load balancer

Name: app-tier-LB-internal

Lauren Lagrandia Grand Ordina sh saget as actual

they be the tended without a triple

1 Dien rarie

1 Anternal

UPC: 3tienupc

us—east—la -> private - subnet 10

us-east-16 -> private - subnet 2 indulationing ignini

security group -> Anternal-16-59 100 pt mans

Debault Action: Apprierranget froup

Hit create load Belancer 11 1111

FLANKIN

Metwork setting

(6) create Launch Template

Name: Apprier-Launch Template

choose MYAMI -> Apprier Image

Source type: t2:micro.

Key pain: pont include

Security group: private = Instances = Sq v company

Advanced settings -> LAM instance profile and allowed a street and a stree

(17) create Auto scaling Group.

Name: AppTierASG

Launch Template: Apprier-Launch Template -> Hent

VPC: 3tier VPC

425: us-east-la (private-subnet) -> Nent us-east-lb (Private-subnet 2) -> Nent

O Attach to an Enisting Load Balancer to and the total to a Enisting Load balancer target groups: Apptier target group

→ Hent

Desired capacity: 2 minimum capacity: 2 manimum: 2 -> Nent -> Nent -> create Autoscaling Group

Then two more instances will be created.

Name: websoner => te: micho -> proceed without key pain

security area upc: 3Herupe meb-subnets

subnet: rublic-web-subnets

Enable security Group: NebTiel-19 Advanced settings: 3tierrole -> execute Instance

isonotiate.

(19) eight on webserver enstance -> notions -> amage and templates -> create Image. staden took " riest told

> smage name: webserver Imagestowny: gumes plines percription: Mebserver Image create smage Store Bill & con-wash

and down store (20) Go to target group -> create target group junit prilled other stoom (i)

esonatante +

Target Group Mame: Webserver - TG prostriamus estaur : elektrist rienus

VPC: 3tieNPC

Thealth ment tanders strong of the zer 250 Create Target Group? would de 1200-16

Francisco Common

(2) create load balances -> Application Load Balances Marie: Web-fiel - Enternal-Lo mobel hook palling

O Internet-bacing

SUF- 2: VPC: 3Her VPC 1 Trough mumician 21/1/2040 booked mappings silvicula shows a tropped tropped

> us-east-la (Public-web-subnet 1) us-east-16 (Public - web- subnet 2)

security Group: Internet Facing - 16-56 response to Detault action! Webserver - 76 molder small create Load bulancer and come one options

AT - MOCHER SAMOIA E-1, WORL souted steems from 1945

1. thought - 6 some orlation , it sould us

(2) create Launch Template
Name: Websenuer launch Template
My AMI: Websenver Image

Instance type: te micro

security froup! Webtier-Sq

Advanced details: 3tierrole 1 -> create launch template

23 create Autoscaling Group

Name: webserver As q

Launch: Webserver Launch Template -> Nent

VPC: 3tienVPC

AZS: public-web = subnet 1
public-web-subnet 2

Attach to an existing load balancer - webserver-Tq - Next Desired capacity: 2 min: 2 man! 2 - Next - Next -> create Auto-scaling group

copy webtier external load balancer DNI parte in private chrome window.