(0) 2 A 600 %

Descalphions

State websites have fixed content with no backend processing. They can contain HTML Pages, image, style and all files that are reeded to render a website. However, state websites do not use server side scripting or a database. If you want your static webpages to provide interactivitis and our programming logic, you can use javascript that owns in The useas web browser.

* choose Starflab to launch own lab

* wait until the Cab status: ready

A choose -AWS

Task1: creating a bricket in Amazon 53.

* In Aws reamagement console, on the Segvices menu, choose S3.

* Choose create bridget.

* For Bucket name, enter: website - 123 > 1 Repla -ce 2123 > wait a random number

· Verify the Aws Ragion is set to us const -+

A In the object ownership section, select ACLS enabled, then Verify Bricket owner preferred is selected.

* Clear Block all public access, then select the Dos that states I acknowledge that the Current sellings may result in this bucket and the objects with in becoming public.

* Choose oreate bucket.

A choose the name of new bricket.

A choose the properties tab.

* scroll to the tags panel.

* choose edit then Add tag and enter

· Keep: Department

· Value: Markelling

* choose save changes to some the tag

to stay on the properties console.

* scroll to the state website nosting panel.

* choose edit.

* Coofigure the settings

* Save Charges

Bucket rav ce < 123 > wait

*In the state website builting pornel, choose the lank under Enclet website ordports.

Task 2: Uploading content to bucket.

- A Right alock each of these links and download the files to your computer
 - · Index. html
 - · Script . Js
- · style. Com
- A Retign to amazon 53 console and in the website <123 > bucket you created earlier, choose the object tab.
- * Choose upload
- * Choose Add files
- * Locate and soled the three files that you downloaded
- * If prompted, choose 12 & acknowledge that existing objects with the same will be oven walken
- -40 choose upload your files are uploaded to the broket.
 - · choose chose

Task 3: Enable access to the objects

Hegd. No

(Autonomous)

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* Return to the boowsen tob that showed the 403 forbidden message

A Refresh the belgage.

* select all three objects.

to In the Actions menn, choose make public

A list of three object is displayed

+ choose make pulolic

* Return to webtorowsen tab That has the 40s forbide * Refresh the webpage.

Task ip: updaling the website

* on your computer, lead the index. It mel file into a text editor.

the find the text served from Amazon 83 console and upload the border. It makes that you fust edited.

of At top of these metenchions, choose submit.

* choose End lab and select yes to confirm that you want to end the lab.

Rega N

*--

Flat back

do not

to provide , ye

ve uscas

choose wait un

sk1: crea

in -Aws

choose crea

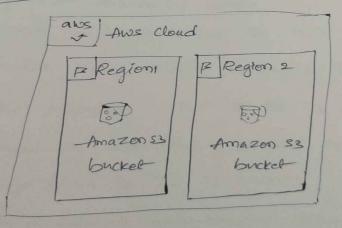
* For Bucket

Alero ?

Descomptions

frank and Marttra are a brushand and cofe team who even and operate a sorall cafe burners that sells dessert and coffee. Their daughter sofia and their other comployee Nikhil- who is secondary school student also work at the cafe, the cake currently doesn't have a web markeling stategy. The cafe doesn't have a web presence yet and it doesn't currently use any cloud compuling services.

Architecture &



that the top of these rostomctrons, choose Startlab to launch the lab.

* wast until the lab status ready.

+ choose Aws

Task! : Extracting the files that we need for this lab. + Download the ZPP file you need for this lab by opening this Amazon So (Bok.

of Computer, extract the files. Notice that your have an lodex. Atml file, and two folders that Contain Cascading Sty (a sheet (CSS) and Forage files.

Task 2: (realing on 53 broket to host the static

* Agen the Amazon S3 console.

* create a bucket to host the static website.

* Enable static website hosting on the bucket.

Task 3: uploading content to the 53 andet.

* upload the bodex. Home file and the css and Images folder to The 53 bucket.

to In a separate web browser tab. open the endpoint link for Etalic website.

* Access the questions of the cab.

the the page we load, answer the first question.

anishon: when victoring the website after tasks.

downard see the page on the browser?

Tasky: creating a brocket policy to grant public read access.

- * corcate a bucket policy that grants read only permission to public among mone users by wong the Bucket policy editor.
- * Conferm that the washite for the cafe is now

Tasks: Enabling reastoning on the 53 bricket

- In the S3 Console, enable ventioning on your S3 bricket.
- to In your favourile tout editor open the index. It me
- * Modify the tile according to the given instanction
- * save the changes.
- * uplead the update file to the S3 bricket.
 - * Reload the webs bouser tab with your website and notice the changes.

VVII



(Autonomous) VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY VIII S * To see the latest usurion of under them tile, go to bricket and choose that ventions.

* Return to boowsen tab with the rombiple choice questions for the tab.

Tasks: selling lifecycle policies

- * Configure two onles for website bucketé béjecycle Configuration. Do not configure two transitions in a single rule.
- . In one onle, move positions ventions of all sounce Concret objects to 53 standard. 14 After 30 days o In the other only delete previous ventions of objects after 3605 days.

Tack 7: Enabling Cross Region Replication.

- * In a different Region that your source brokely Create a second bricket and enable verticing on it.
- * on your source 83 toucket, emable region rapticulion.
 - · Replace the entire source bucket.
 - o we the cafe Role for the Aws Rdonlity and
- Access management (IAM) tole.

* Inbound mes section, choose Add mule them Configure.

- = Type: NIES
- · Powice: custom
- · Choose; create securitis quoup

Task 2: Creating an Exs file system

- * on the services menu, choose EFS
- * Choose Create file system
- * In the Create file system windows, doorse Customi ze.
- + choose Next
- * choose create.

Tasks: Connecting to your Ecz Enstance via 55H + A above these Enstanctions that you are Currently reading I choose the Deterts dropdown rownu and then select show.

* Choose the download PRK button and save the labuser ppl.file.

* To use 88 H to access the ECZ losslande . you monst use 'puttu'.

*Open pultionere

- + To keep the PUTTY cection Open for a longer Period of time, Configure the PUTTY timeout.
- * Back in putty, in the convection list expend
- +choose Auth and Expand credentials
- to when you are prompted with login evere-user.
- Tasky: Creating a new directory and mounting the EFS fale System.
- * In your 55H servion, make a newdirectory by entering endo choose ETS.
- In the Armazon EF3 console, on the top sight Corner on the page, choose Attach to open the Armazon Ecz mount bustom chross.
- * copy the entire Commonand in the using the NFS Went section.
- Task 5: Examing the performance behaviour of your new EFS file System.
- of Examine the write performance characteristics of your file system by entering to command.

* The fo Command will take 5-10 minutes to Complete.

* In the AWS management consolo on the services menu choose cloud watch

* choose metrics.

of In all metrices, choose Ers

of choose tile system metrics

I select the checkbox for datelink attribute To byte. Congenializans 1 you created an EFS file System. submitting your work

* At the top of these instructions, Choose subsoul. * choose Endlab then select yes to confirm that you want to end the lab.

400

After creating a pyramic website for the cope

Description

After the cafe courseld the first years of these welserite, austomous told the case staff how nice The wassite cooks. They agreed that their business steategy and decisions should focus on delighting Their customen and providing them with the best possible case experience.

Accessing the Awa management Corrole:

- 1) At the top of these instructions choose start lab.
- 2) wast antit you see the statue sends
- 3) choose Aws.
- -A bonsioness request for the cate: preparing on Ecz instance of hosting a website.
- Task! : Analyzing the Existing EC2 Postance
- In the scarch box net to services, seconch for and sched Ecz.
- * Then choose Instances.
- * Access the gnestions on this lab.
- In the page that you loaded, answer the

first tour grestions.

Tacks: Connecting to the IDA on the tis

* In the search box search for and selection

In the Environments page, notice the cafe webserves environment. It endicates that it is for type Eco instance.

-x choose open.

You are now connected to the AWS cland 9 IDE that is running on the Ecz instance that you observed earlier.

Tasks. Analyzing the lamp stack environment and confirming that the website is acressible. I choose and observe the os version.

In the Aws clouded bash tensormal one this Command cat/proc/version.

to start the rock server and the database and also set them to start automatically after any future ECZ forstance restart.

* Configure the Ecz instance so that you can use the Aws Cloud 9 editor to edit web server fele.

toxaling a stoople test webpage.

- . In the file browsen expand the cafe welstand directory and highlight the Ist of directory
- Choose File & New File
- · choice tile > save and save the file.

In the second part of the lab, you will take on the role of sofia and install the case application on the Ea instance. You now know PIP is installed.

Task 5: Testing the web application

- -> Test by placing an order
 - . In the boowser tab where you have the page open Choose menu.
 - · Submit on order for at least one of the menu items.
 - · Return to the menn page and place another order, then go the order History.

Task 6 : Creating an Ami and launching another EC2 Prestance

-> set a static internal inostrame and create a new key pair on the Ece instance

-> choox Achtors > Toronges and Templales > create Image.

Task 7: Verifying the new cafe instance > Return to the Ecz console in the oreg on Region & Verify that the new productesenver whistance is summing.

-> Copy the IPV4 public Ip address and load it in a web browser.

-) Cord the overn paging.

-> place an order to yearify that the website is working as sostended.

Submilling your coork;

-> At the top of these Enstanctions embrest and when prompted choose Yes.

Lab completes

-> At the top of this page, choose END lab and then choose yes.

5(0) Aim's To create an amazon RDs database

Description

creating a datebase com be a complex process that requires either a detabase administrator Or a systems administrator. In the cloud, you are Simplify this process by using Amazon RDS-Launch a database using Amazon RDS. Configure a evel application to Connect to the database

steps followed by creating an Amazon RDS database.

-* choose Start (ab to launch the lab.

* wait until the lab Status: ready.

* choose AWS.

Tosk 1: Creating an Amazon RDs database

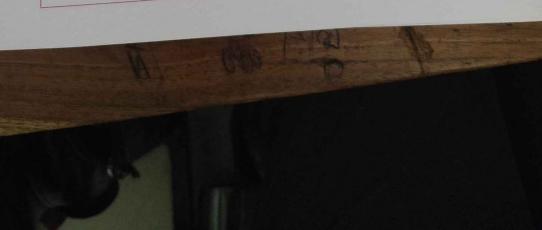
* choose RDS

* choose create database

* Select MysqL

* set the templates and availability and durability options:

ounder the templates select Den/Test.



- · Under the Amilabolists and dwalfility section, solect DB Finstance
- & Under the sellings sellion
 - · DB Enstance Edentifica: En ventory do
 - · Useanames admin
 - · password: Cab password
- A under the settings DB enstance class oselect Busstatole classes
 - · select do. 65. micro
- * under the Connectivity section,
 - · Vistral private cloud (UPC): Colo VPC
 - · Estisting upc security groups.
- * Espand the Additional configuration pamels
 - "Initial database name: conventing
 - · clear the Enable Enhanced monitoring option
- * choose Create database

Task 2: Configure web application communication with a database Enstance:

- * choose Ec2
- * choose Enstances
- * select the App server instance.
- To the details tab, copy the public IPVII address
- * paste the 1p address in new browsen = enter.

* choose RDs

+ choose Database

* choose Priventory. db

* Retion to browse too with the inventory application,

· End point : posts The endpoint you capted evolver

· Database: Boventory

o Useaname: adonim

· password: lab password

· choose save

* Add inventory, edit and delete favoritory Exformation.

to Bosout new records into the table. Encour that the table has 5 or more goventory records before snomitting the work.

* Choose Bulomit.

choose End lab and select yes to Confirm that you want to end the lab

5(6)

Africe To Migraling a database to Amazon RDs

Description:

the cafe currently uses a single Ece Instance to host their websencer, database and application code. You will migrate data from a database on an armazon Erz instance to arrazon RDs Create an RDS database instance. Export data from mario RDS database instance. Export data from mario RDS database by using Mysiqu dump connect a SQL chient to an RDS database.

Steps -

* choose startlab

* wast until labstatus; ready

* choose Aws.

Task 1: creating an RDS instance.

Create an RDS renstance that compiler with these specificalions.

o Engine type: MariaDB

· Templates: Dev1 Test

· DB Enstance: Fdentifier: Cafe Databose

· Availability zone ! Choose us east la

· Database port : keep the default top port of

Tasks - Analyzing the existing cafe application deployment.

* Choose Rumming instance

A Test the cafe application.

to Connect the ECO Englance.

o Choose Ession Manager

. Start a session = connect to the cafesenreen

· Entor the Following commands:

bash

SULDO SV

Su ecz - ver

whoami

cd/home/ecz-usea/

Torsk 3: Working with the database on the ECZ Enstance.

* Observe details of the datebase that runs on

Eco Postance. Service marriado stalta

onyearl -- version

to Return to brown to both the AWS system Manager.

* choose parameter store

+ Connect to the database

VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY WIR 23 onyear - u soot - p * observe the date in the existing database Show database use cafe -do show tables select + from orders; + Exel the sql client * capture Excisting date in a tile + conferen that resuppledures succeded took 4's working with the RDs database * Return to The RDS. + Acrese the questions in this tab * Now, consuced the first found ynestions * Establish a network connection from terminal enserva. * Run the Show database Task 5 = Insporting the date into the RDS database Postance. * Irosport the date that you exposted in tasks to our RDS datebase instance * Confirm that the date was imported a Run this Command · Enter the passioned for the RDS instance