International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES)
Impact Factor: 5.22 (SJIF-2017),e-ISSN:2455-2585
International Conference on
Recent Explorations in Science, Engineering And Technology (ICRESET'19)
Volume-5, Special Issue-March, 2019.

SECURELY DELIVERING DESKTOP APPLICATION TO WEB BROWSER

JAYASHREE R[1], GAYETHIRI R.S[2],INBA M[3],MARRY METILDA S[4]

[1]Assistant professor,[2,3,4]Student,
Dept.of Computer Science and Engineering, KGiSL Institute Of Techology,Tamilnadu ,India

Abstract---Securely deliver the desktop application to a web browser and deploy it in a cloud using AppStream 2.0's amazon web services. We have created a desktop application for customer relationship management with information about college management. The aim of this project is to deploy and stream desktop applications using Amazon AppStream 2.0, a fully managed application.Secure application streaming service running AWS Cloud. Provide an Amazon Virtual Private Cloud (Amazon VPC) to deliver an isolated virtual network infrastructure within the AWS Cloud. This environment is going to be used by your AppStream 2.0 resources.The AWS Management Console used to build an AppStream 2.0 environment to perform the basic administrative tasks required.

1. Use an image builder to install and configure desktop applications for streaming.

2. Provide a fleet of streaming instances for your applications.

3. A stack is creating a web portal from which applications can be streamed by users.

4. Create a user pool to manage users who are able to access your streaming applications.

Keywords---Desktop application, Appstream 2.0, AWS Cloud, College Management System

I. INTRODUCTION

AWS is a secure platform for cloud service offering, computing power, database, storage delivery and other features. A Desktop Application is a computer program that runs on a computer device locally, such as a desktop or laptop computer, as opposed to a web application that is delivered from a remote server to a local device over the Internet.You can store the desktop applications and share them with the browser. The server will save these applications. It is not possible to provide assurance of secure application use in this system. The data will be shared with the browser more securely without any server problems or other storage problems. The shared applications, data can be secured in VPC services and will be available 24/7. Provide an Amazon Virtual Private Cloud (Amazon VPC) to provide the AWS Cloud with an isolated virtual network infrastructure. This resource for AppStream 2.0 will be using this environment.

The main requirements for starting our project are as follows:

•An AWS account: To use AppStream 2.0 and other AWS services, you first need an AWS account.

•A current email address: The AppStream 2.0 environment user configuration process is sent by AWS. Users two emails. Complete the process with these emails. Our main goals in this project are as follows:

• To ensure easier and more secure data delivery. • Minimizing the time required. • 24 * 7 Data access.

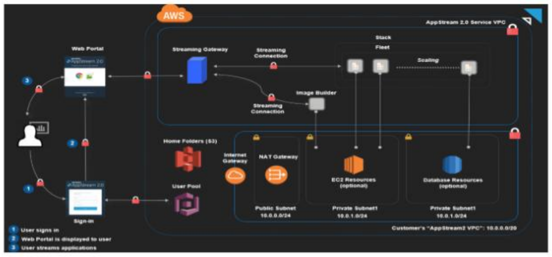
PROPOSED SYSTEM

You can store the desktop applications and share them with the browser. These applications will be saved in the server. This system cannot provide assurance of secure application usage.

OUTLINE OF THE PROJECT

Administrative tasks can be performed in the AppStream console. Creating network resources- create an Amazon Virtual Private Cloud (VPC) and other network resources needed for your AppStream 2.0 environment. Creating an AppStream 2.0 image builder and creating a user pool to manage users accessing streaming applications.

LITERATURE REVIEW


AWS
AppStream 2.0 Service VPC
Web Portal
Streaming Gateway
Streaming Connection
Stack
Fleet
Scaling
Image Builder
Streaming Connection
Home Folders (S3)
Internet Gateway
NAT Gateway
EC2 Resources (optional)
Database Resources (optional)
User Pool
Sign-in
Public Subnet 10.0.0.0/24
Private Subnet1 10.0.1.0/24
Private Subnet1 10.0.1.0/24
Customer's "AppStream2 VPC": 10.0.0.0/20
1 User signs in
2 Web Portal is displayed to user
3 User streams applications

AppStream 2.0 is a fully managed, secured application streaming service that enables desktop applications to be streamed from AWS to a web browser HTML 5. Users can use any computer, including Macs, and PCs to access desktop application.Install and configure Apps on AppStream and stream applications to users. Applications are accessed via an HTML 5 browser, and we can control the permissions that can access them. Using the AppStream console it can perform administrative tasks. Use the image builder to install the applications. Optimizing applications with the Image Assistant. It will provide a fleet for desktop applications and provide a stack to stream applications to users. Supply to an Amazon Virtual Private Cloud (VPC) using the AWS Cloud template provided. Within the isolated virtual network infrastructure, this VPC will host the AppStream 2.0 resources.

SIGNIFICANCE OF THE PROJECT

- ✓ Importing desktop application to create an image builder is important.
- ✓ Helps the services to stream.
- ✓ Application easy and secure.

MODULES USED IN THE PROJECT

- ➢ Module 1: Network Resources and AppStream Image Builder
- ➢ Module 2: Connect to the Image Builder and install the app.
- ➢ Module 3: Create AppStream Image.
- ➢ Module 4: Fleet provision and Stack and User Management Appstream.
- ➢ Module 5: User Experience and Streaming testing.

Future Enhancements

The data will be shared with the browser more securely without any server problems or other storage problems.

Shared applications, data can be secured and available 24/7 in VPC services.

Algorithms Used

- KMS – Key Management System
- AES – Advanced Encryption System

STEPS FOLLOWED

Step 1: Create network resources

Step 2: Create an AppStream 2.0 Image Builder

Step 3: Connect to Image Builder and Install Apps

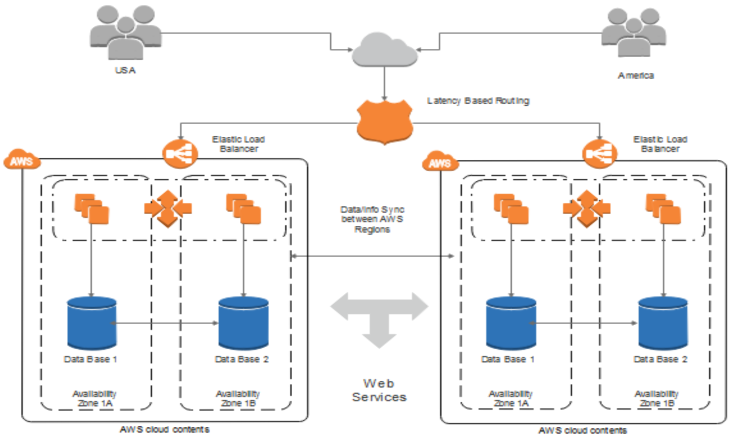
Step 4: Use Image Assistant to create an AppStream 2.0 Image Builder.

Step 5: Creating an AppStream 2.0 stack and a streaming URL

Step 6: Manage user access with an AppStream 2.0 user pool

Step 7: Test end - user authentication and streaming experience

Step 8: Take the next step with AppStream 2.0



CONCLUSION

Appendix A: Create and activate an AWS account .

Appendix B: Create and configure network resources manually.

Appendix C: Configure your Appendix 2.0 resources in Chrome.

STOP AND DELETE YOUR IMAGE BUILDER

1. Open the AppStream2.0 console at https://console.aws.amazon.com/appstream2

2. Select Images, Image Builder, in the navigation pane.

3. Confirm if the image builder you created. If not, select the builder of the image and select Actions, stop. Repeat this step for every image builder you created if you created multiple image builders.

4. Choose Actions, Delete after the Image builder has stopped.

REFERENCES

1. Amazon AppStream 2.0 Product Details
2. Amazon AppStream 2.0 Pricing Details
3. Amazon AppStream 2.0 FAQs
4. Amazon AppStream 2.0 Developer Guide
5. Amazon AppStream 2.0 API Reference
6. Amazon AppStream 2.0 CLI Reference
7. Amazon AppStream 2.0 Try It Now Demo