

## SDEV 400 – Homework 2

### AWS EC2 and S3 Demonstration

#### Overview:

In this homework, you will demonstrate the successful creation of basic, free-tier EC2 and S3 servers at Amazon Web Services.

#### Assignment: Total 100 points

Using the readings from weeks 3 and 4 as a baseline, create a free-tier AWS account. Be sure you understand how the free-tier models work to avoid any charges. Using the AWS console, configure and launch a Linux EC2 server, a Windows EC2 server and S3 server. For the purposes of this demonstration, you should document with screen captures and descriptions each step in the process.

For simplicity, you should launch the servers in series as opposed to having 3 servers running all at once. For the Linux and Windows server, demonstrate the installation of Java 8 and one other free software application of your choice on the instances. For the S3 instance, demonstrate you can successfully connect to the server and securely send data to and from your machine. The data you send is up to you. For example, you could send images, music files, PDF documents or other documents of your choice.

Within the documentation, describe any challenges you had and how you overcame those challenges. Document the server instance names you created. Also monitor and describe your free-tier resources used. You should be able to monitor the number hours and minutes spent on each server.

Finally, and most importantly, be sure to shut down each instance to avoid any additional charges to your account.

Your document should be well-organized, well-written and provide all references used for your research. There should be minimal spelling and grammatical errors.

#### Deliverables:

Submit your paper in Word or PDF format no later than the due date.

#### Grading rubric:

Attribute	Meets	Does not meet
Create AWS Free tier account	<b>20 points</b> Creates a free-tier AWS account. (20 points)	<b>0 points</b> Does not create a free-tier AWS account.
Launch AWS products	<b>30 points</b> Configures and launches a Linux EC2 server using the AWS console. (10 points)	<b>0 points</b> Does not configure or launch a Linux EC2 server using the AWS console.  Does not configure or launch a Windows EC2 server.

	<p>Configures and launches a Windows EC2 server. (10 points)</p> <p>Configures and launches a S3 server. (10 points)</p>	<p>Does not configure or launch a S3 server.</p>
Use AWS products	<p><b>30 points</b></p> <p>Demonstrates the installation of Java 8 on the Linux EC2 instance. (5 points)</p> <p>Demonstrates the installation of Java 8 on the Windows EC2 instance. (5 points)</p> <p>Demonstrates the installation of one additional application of your choice on the Linux EC2 instance. (5 points)</p> <p>Demonstrates the installation of one additional application of your choice on the Windows EC2 instance. (5 points)</p> <p>Demonstrates the successful connect to the S3 server and securely send data to and from your machine. (5 points)</p> <p>Demonstrates all instances created for this exercise have been shut down. (5 points)</p>	<p><b>0 points</b></p> <p>Does not demonstrate the installation of Java 8 on the Linux EC2 instance.</p> <p>Does not demonstrate the installation of Java 8 on the Windows EC2 instance.</p> <p>Does not demonstrate the installation of one additional application of your choice on the Linux EC2 instance.</p> <p>Does not demonstrate the installation of one additional application of your choice on the Windows EC2 instance.</p> <p>Does not demonstrate the successful connect to the S3 server and securely send data to and from your machine.</p> <p>Does not demonstrate all instances created for this exercise have been shut down.</p>
Documentation and submission	<p><b>20 points</b></p> <p>Describes any challenges you had and how you overcame those challenges. (5 points)</p> <p>Documents the server instance names you created. (5 points)</p> <p>Monitors and describes the free-tier resources used and the number hours and minutes spent on each server. (5 points)</p> <p>Document is well-organized and well-written, provides all references used for your research using APA</p>	<p><b>0 points</b></p> <p>Does not describe any challenges you had and how you overcame those challenges.</p> <p>Does not document the server instance names you created.</p> <p>Does not monitor or describes the free-tier resources used or the number hours and minutes spent on each server.</p> <p>Document is not well-organized or well-written, does not provide all references used for your research</p>

	style citing guidelines, and contains minimal spelling and grammatical errors. (5 points)	using APA style citing guidelines, and contains multiple spelling and grammatical errors.
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