

Amazon AWS II – Solution Architect

Student Name: Elvin Hatamov
Student ID: 101150598

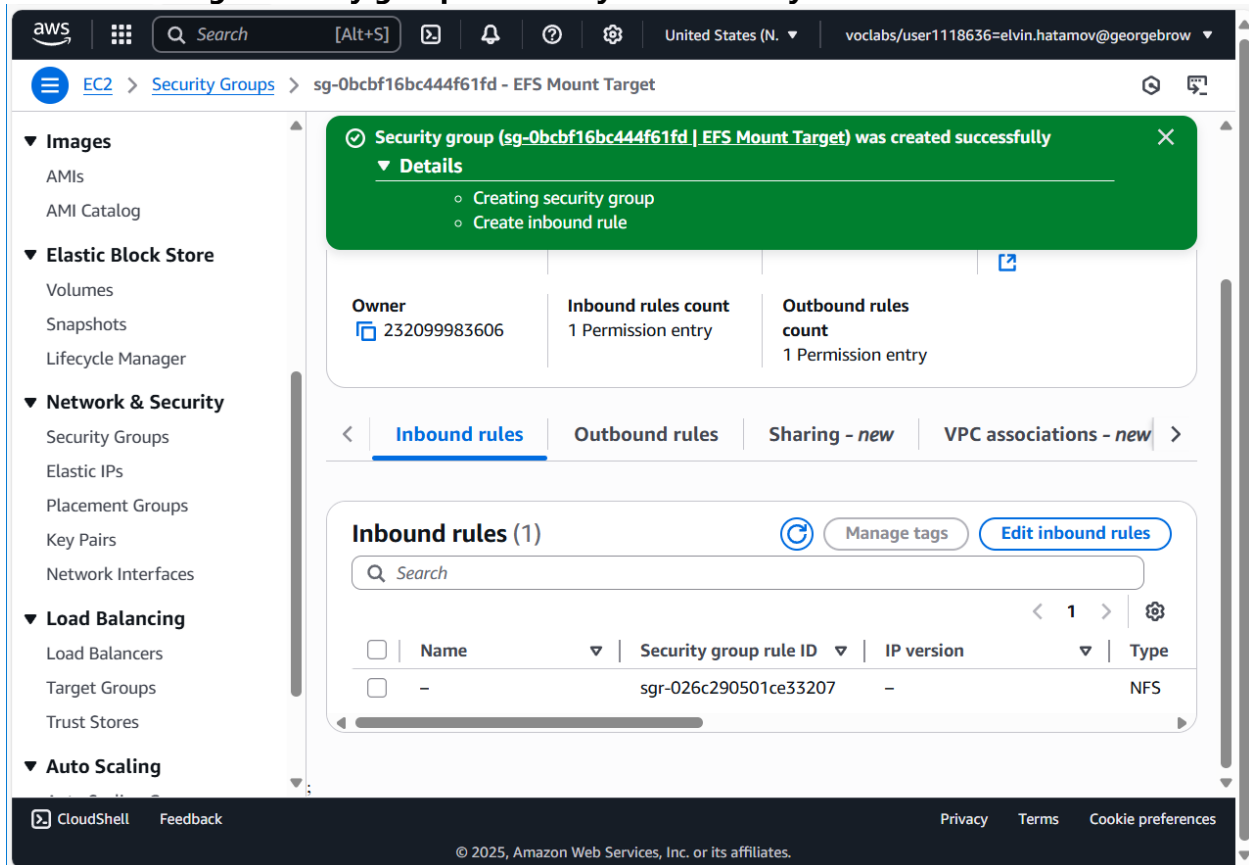
Term: Summer 2025

Activity 2:

Module 5 - Guided Lab: Introducing Amazon Elastic File System (Amazon EFS)

Paste screenshot of the AWS Management Console after completing each task.

Task 1: Creating a security group to access your EFS file system



Task 2: Creating an EFS file system

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aws Search [Alt+S] United States (N. voclabs/user1118636=elvin.hatamov@georgebrow

Elastic File System

- File systems
- Access points
- AWS Backup
- AWS DataSync
- AWS Transfer
- Documentation

Success!
File system (fs-00d18865c40bf5e7c) is available.
[View file system](#)

[Amazon EFS](#) > File systems

File systems (1)

[Refresh](#) [View details](#) [Delete](#) [Create file system](#)

[Filter by property values](#)

< 1 > [Settings](#)

	Name	File system ID	Encrypte d	Total size	Size in Stand
<input type="radio"/>	My First EFS File System	fs-00d18865c40bf5e7c	<input checked="" type="checkbox"/> Encrypted	6.00 KiB	6.00 KiB

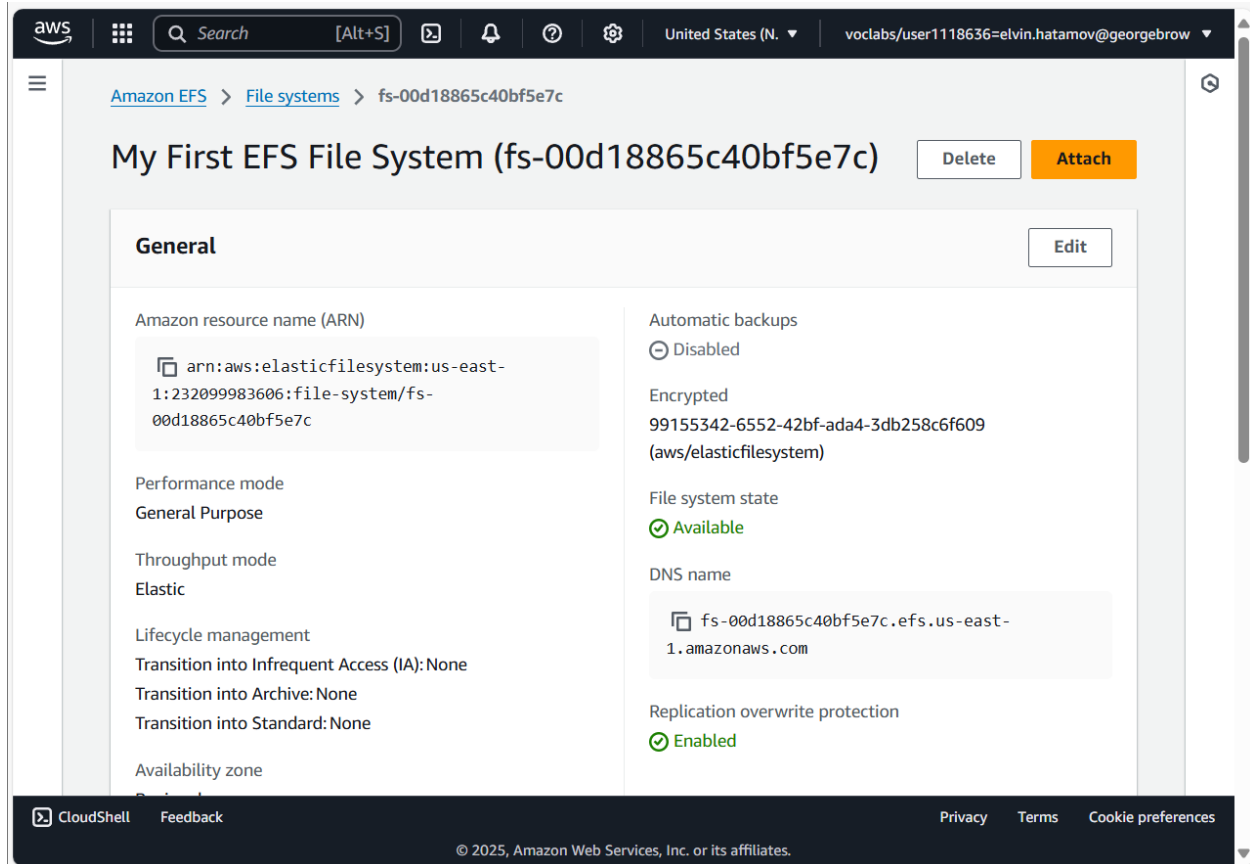
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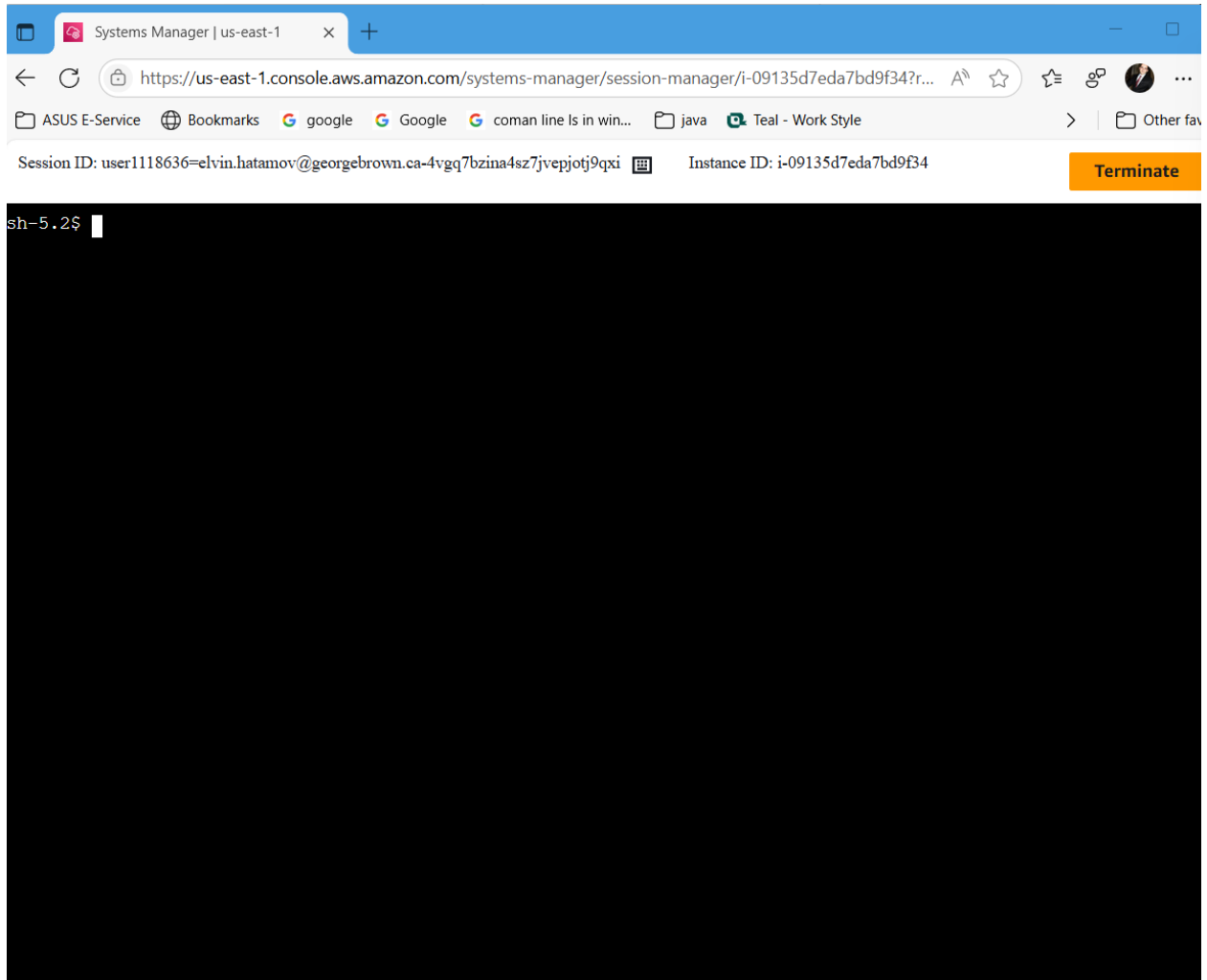


Task 3: Connecting to your EC2 instance

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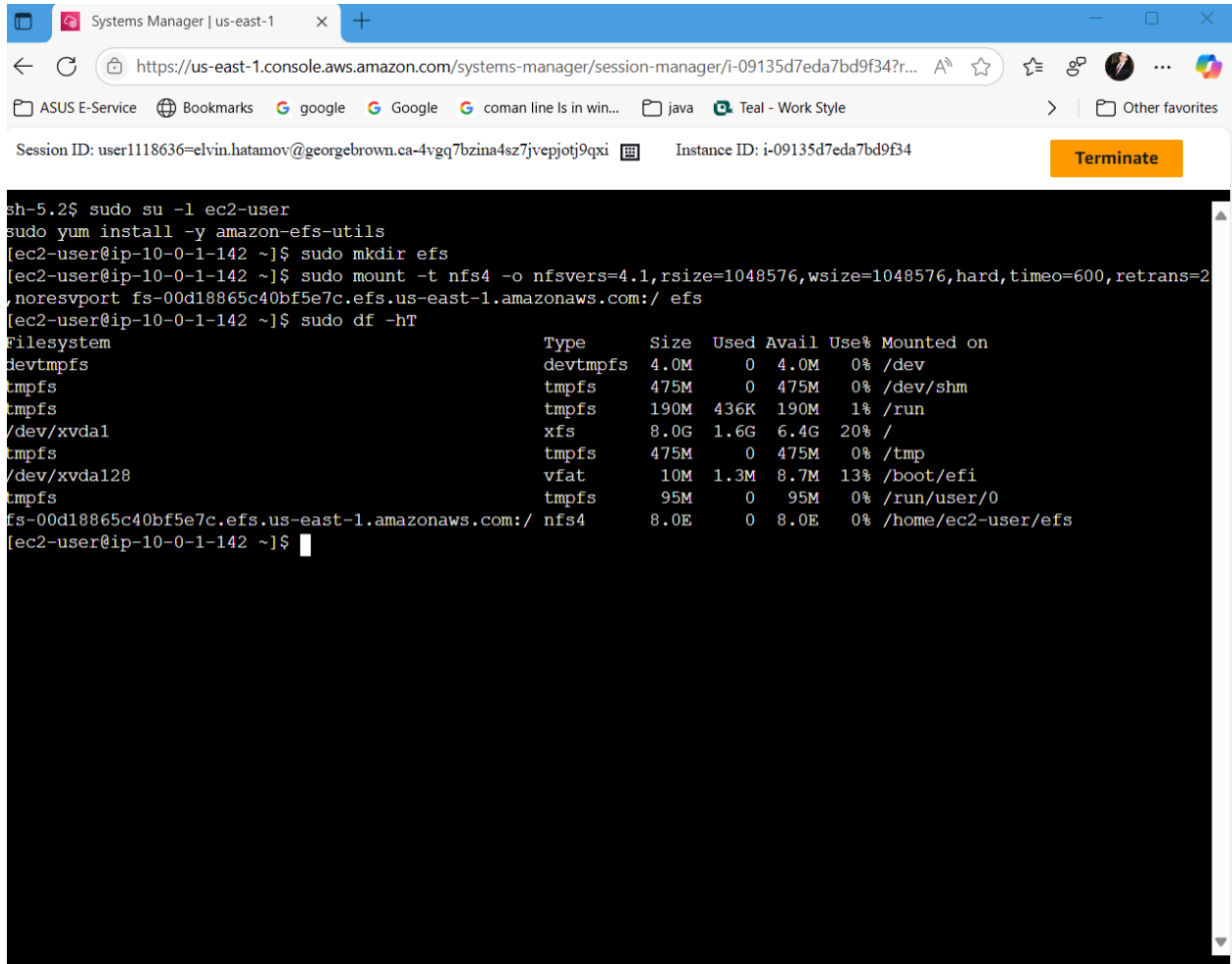


Task 4: Creating a new directory and mounting the EFS file system

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The screenshot displays the AWS Systems Manager console interface. At the top, the browser address bar shows the URL: `https://us-east-1.console.aws.amazon.com/systems-manager/session-manager/i-09135d7eda7bd9f34?r...`. Below the browser, the console header indicates the Session ID: `user1118636=elvin.hatamov@georgebrown.ca-4vgq7bzina4sz7jvepjotj9qxi` and Instance ID: `i-09135d7eda7bd9f34`. A yellow "Terminate" button is visible in the top right corner of the console window.

The terminal window shows the following commands and output:

```
sh-5.2$ sudo su -l ec2-user
sudo yum install -y amazon-efs-utils
[ec2-user@ip-10-0-1-142 ~]$ sudo mkdir efs
[ec2-user@ip-10-0-1-142 ~]$ sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsiz=1048576,hard,timeo=600,retrans=2,noresvport fs-00d18865c40bf5e7c.efs.us-east-1.amazonaws.com:/ efs
[ec2-user@ip-10-0-1-142 ~]$ sudo df -hT
```

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
devtmpfs	devtmpfs	4.0M	0	4.0M	0%	/dev
tmpfs	tmpfs	475M	0	475M	0%	/dev/shm
tmpfs	tmpfs	190M	436K	190M	1%	/run
/dev/xvda1	xfs	8.0G	1.6G	6.4G	20%	/
tmpfs	tmpfs	475M	0	475M	0%	/tmp
/dev/xvda128	vfat	10M	1.3M	8.7M	13%	/boot/efi
tmpfs	tmpfs	95M	0	95M	0%	/run/user/0
fs-00d18865c40bf5e7c.efs.us-east-1.amazonaws.com:/	nfs4	8.0E	0	8.0E	0%	/home/ec2-user/efs

```
[ec2-user@ip-10-0-1-142 ~]$
```

Task 5: Examining the performance behavior of your new EFS file system

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```
https://us-east-1.console.aws.amazon.com/systems-manager/session-manager/i-09135d7eda7bd9f34?r...
ASUS E-Service Bookmarks google Google coman line ls in win... java Teal - Work Style Other favorites
Session ID: user1118636=elvin.hatamov@georgebrown.ca-4vgq7bzina4sz7jvepjotj9qxi Instance ID: i-09135d7eda7bd9f34 Terminate

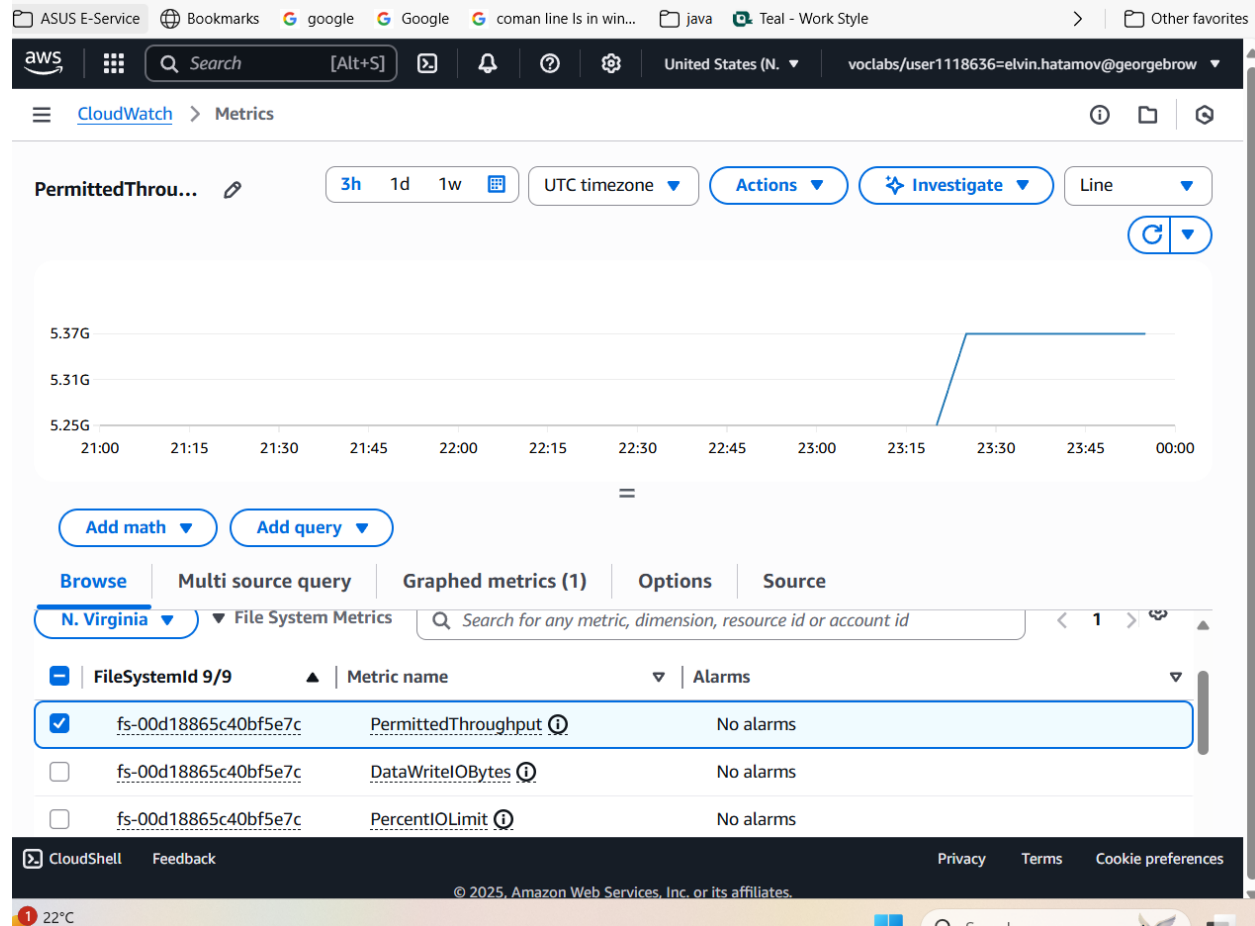
fs-00d18865c40bf5e7c.efs.us-east-1.amazonaws.com:/ nfs4 8.0E 0 8.0E 0% /home/ec2-user/efs
[ec2-user@ip-10-0-1-142 ~]$ sudo fio --name=fio-efs --filesize=10G --filename=./efs/fio-efs-test.img --bs=1M --nrfiles=1 --direct=1 --sync=0 --rw=write --iodepth=200 --ioengine=libaio
fio-efs: (g=0): rw=write, bs=(R) 1024KiB-1024KiB, (W) 1024KiB-1024KiB, (T) 1024KiB-1024KiB, ioengine=libaio, iodepth=200
fio-3.32
Starting 1 process
fio-efs: Laying out IO file (1 file / 10240MiB)
Jobs: 1 (f=1): [W(1)][98.8%][w=23.0MiB/s][w=23 IOPS][eta 00m:01s]
fio-efs: (groupid=0, jobs=1): err= 0: pid=27463: Fri Jul 18 23:45:17 2025
  write: IOPS=121, BW=121MiB/s (127MB/s) (10.0GiB/84546msec); 0 zone resets
    slat (usec): min=68, max=726, avg=120.47, stdev=29.35
    clat (msec): min=33, max=3298, avg=1650.63, stdev=192.25
    lat (msec): min=34, max=3298, avg=1650.75, stdev=192.25
    clat percentiles (msec):
      | 1.00th=[ 768], 5.00th=[ 1636], 10.00th=[ 1636], 20.00th=[ 1636],
      | 30.00th=[ 1653], 40.00th=[ 1653], 50.00th=[ 1653], 60.00th=[ 1653],
      | 70.00th=[ 1653], 80.00th=[ 1670], 90.00th=[ 1670], 95.00th=[ 1687],
      | 99.00th=[ 2467], 99.50th=[ 2869], 99.90th=[ 3171], 99.95th=[ 3239],
      | 99.99th=[ 3272]
    bw ( KiB/s): min=92160, max=139264, per=99.88%, avg=123879.33, stdev=3619.86, samples=166
    iops    : min= 90, max= 136, avg=120.98, stdev= 3.54, samples=166
    lat (msec)  : 50=0.02%, 100=0.12%, 250=0.22%, 500=0.32%, 750=0.30%
    lat (msec)  : 1000=0.30%, 2000=97.19%, >=2000=1.52%
    cpu        : usr=0.75%, sys=0.87%, ctx=12273, majf=0, minf=11
    IO depths  : 1=0.1%, 2=0.1%, 4=0.1%, 8=0.1%, 16=0.2%, 32=0.3%, >=64=99.4%
      submit   : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.0%, 32=0.0%, 64=0.0%, >=64=0.0%
      complete : 0=0.0%, 4=100.0%, 8=0.0%, 16=0.0%, 32=0.0%, 64=0.0%, >=64=0.1%
    issued rwts: total=0,10240,0,0 short=0,0,0,0 dropped=0,0,0,0
    latency    : target=0, window=0, percentile=100.00%, depth=200

Run status group 0 (all jobs):
  WRITE: bw=121MiB/s (127MB/s), 121MiB/s-121MiB/s (127MB/s-127MB/s), io=10.0GiB (10.7GB), run=84546-84546msec
[ec2-user@ip-10-0-1-142 ~]$
```

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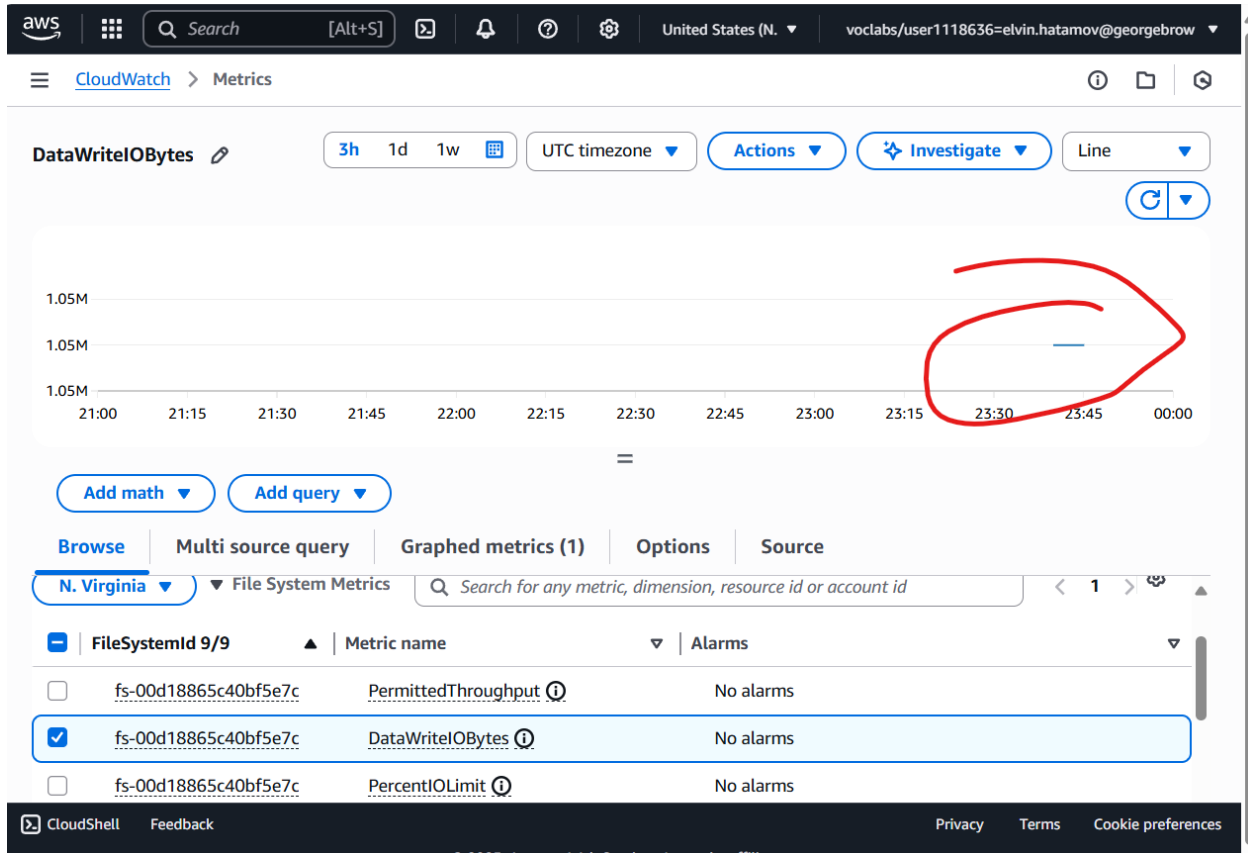
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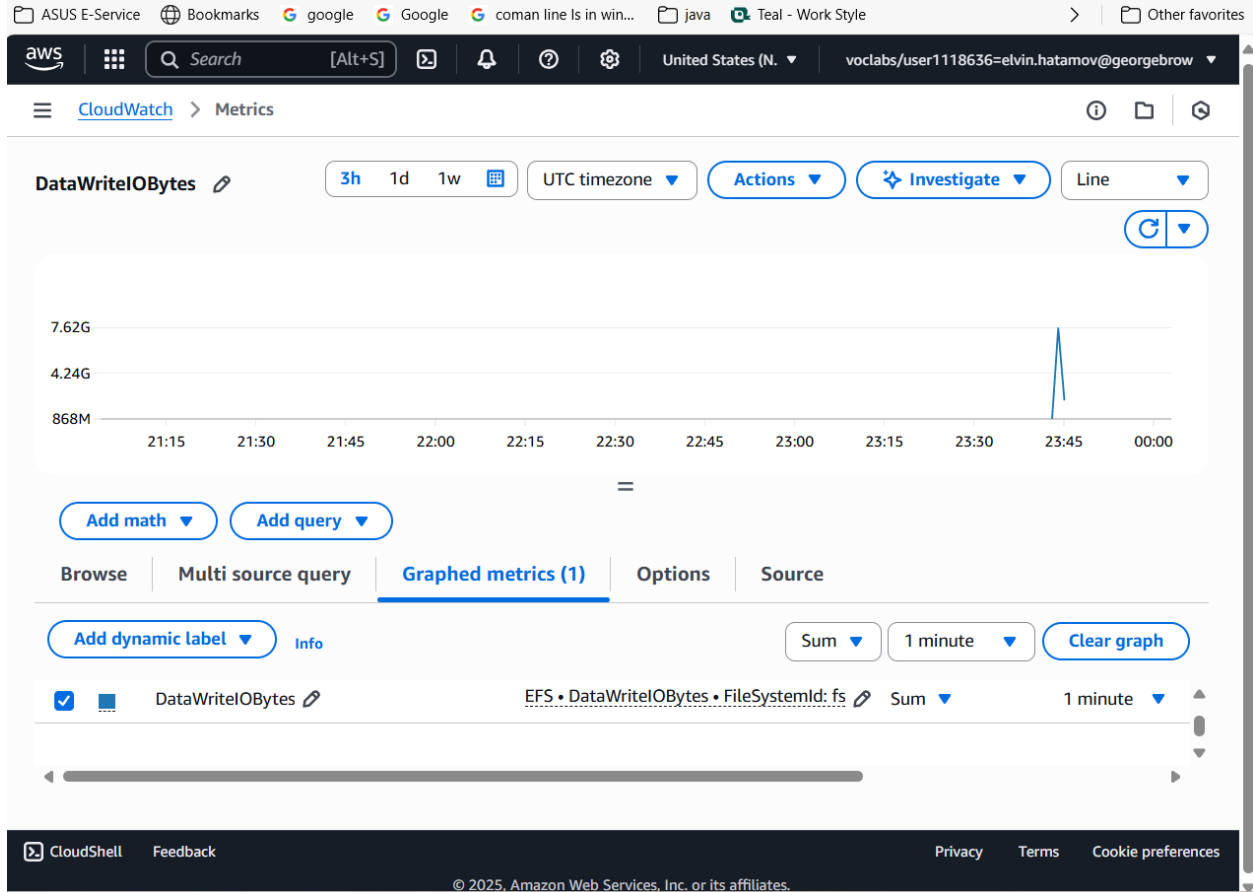
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The screenshot shows the AWS Academy 'Guided lab: Introducing Amazon Elastic File System (Amazon EFS)' page. The lab is marked as 'Lab complete' with a graduation cap icon. The page lists the following tasks:

- Created an Amazon EFS file system
- Logged-in in to an Amazon Elastic Compute Cloud (Amazon EC2) instance that runs Amazon Linux
- Mounted your file system to your EC2 instance
- Examined and monitored the performance of your file system

The 'Lab complete' section states: 'Congratulations! You have completed the lab. 47. At the top of this page, choose End Lab and then choose Yes to confirm that you want to end the lab. The message "Ended AWS Lab Successfully" is briefly displayed, indicating that the lab has ended. For more information about AWS Training and Certification, see <https://aws.amazon.com/training/>.

The 'Total score' is 15/15, and the 'Submission Report' shows the following tasks completed:

Task	Score
[Task 1] Security Group created	5/5
[Task 2] EFS file system created	5/5
[Task 3] Flexible IO was run	5/5

The page includes navigation buttons for 'Previous' and 'Next'.