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EE3801 Lab 6A

Submit the following task for lab report for Part A:

Step 13

Just starting:

```
[ec2-user@ip-10-0-13-114 20181105]$ squeue
  JOBID PARTITION NAME          USER ST      TIME  NODES  NODELIST(REASON)
  "key":2"par queue1 rplspl ec2-user R    0:19    1 queue1-dy-m5a-4xlarge-1
  }      3 queue1 rplspl ec2-user R    0:14    1 queue1-dy-m5a-4xlarge-1
[ec2-user@ip-10-0-13-114 20181105]$ tail -f *.out
==> rplpl-slurm.queue1-dy-m5a-4xlarge-1.2.out <==
  "clusterName": "MyCluster01",
==> rplpl-slurm.queue1-dy-m5a-4xlarge-1.3.out <==
^C  "cloudformationStackArn": "arn:aws:cloudformation:ap-southeast-1:547215547739:stack/MyCluster01/72e020f0-7144-1
[ec2-user@ip-10-0-13-114 20181105]$ tail -f *.out
==> rplpl-slurm.queue1-dy-m5a-4xlarge-1.2.out <==
  "clusterStatus": "CREATE_COMPLETE",
==> rplpl-slurm.queue1-dy-m5a-4xlarge-1.3.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=23, tm_hour=1, tm_min=59, tm_sec=50, tm_wday=0, tm_yday=296, tm_isds
0) }
Object created
[aws] * ~ nano cluster-config.yaml
==> rplpl-slurm.queue1-dy-m5a-4xlarge-1.2.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=23, tm_hour=1, tm_min=59, tm_sec=50, tm_wday=0, tm_yday=296, tm_isds
0) -- Auto-updated Homebrew!
Object created taps (shivammathur/php, homebrew/core and homebrew/cask).
Opening .new file, creating new RPLParallel object...
Object saved to file rplparallel_d41d.hkl
Object created tasks
Opening .new file, creating new RPLParallel object...
Object saved to file rplparallel_d41d.hkl
Object created 17 outdated formulae installed.
Object loaded from file rplparallel_d41d.hkl
[Error]: Cannot install under Rosetta 2 in ARM default prefix (/opt/homebrew)!
==> rplpl-slurm.queue1-dy-m5a-4xlarge-1.3.out <==
  arch -arm64 brew install ...
==> rplpl-slurm.queue1-dy-m5a-4xlarge-1.2.out <==
[aws] * ~ |
==> rplpl-slurm.queue1-dy-m5a-4xlarge-1.3.out <==
.ns5 file loaded.

==> rplpl-slurm.queue1-dy-m5a-4xlarge-1.2.out <==
Object saved to file unity_71bf.hkl
Reading calibration edf file.

Object created
Object saved to file eyelink_24d5.hkl
Reading navigation edf file.
```

Ending:

```
Elapsed time for processor cpus.compute_cluster_metrics: 2.000 sec
Finalizing output metrics_outall Homebrew into /usr/local.
[ Removing temporary directory /tmp ] r.pem ~n MyCluster01 [ system]
[ Done. ] n: Mon Oct 23 01:49:54 2023 from 137.132.26.36
finished for this channel
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=23, tm_hour=2, tm_min=45, tm_sec=44, tm_wday=0, tm_yday=296, tm_isdst=
0) ~ \####\
140.25538635253906 AL2 End of Life is 2025-06-30.
expecting call from channel level
/data/picasso/20181105/sessioneye/array04/channel120/cell01
spikecount / A newer version of Amazon Linux is available!
104 ~. /
Object created Amazon Linux 2023, GA and supported until 2028-03-15.
Object saved to file spiketrain_d41d.hkl n.com/linux/amazon-linux-2023/
/data/picasso/20181105/sessioneye/array04/channel120/cell02
spikecount2-user@ip-10-0-13-114 ~]$ squeue
100 JOBID PARTITION NAME USER ST TIME NODES NODELIST(REASON)
Object created 2 queue1 rplpl ec2-user R 12:51 1 queue1-dy-m5a-4xlarge-1
Object saved to file spiketrain_d41d.hkl 2-user R 12:46 1 queue1-dy-m5a-4xlarge-1
/data/picasso/20181105/session01/array04/channel120/cell01
spikecount2-user@ip-10-0-13-114 PyHipp]$ ls
4130kfiles.sh geom.csv PyHipp.egg-info removefiles.sh rplsplit-slurm.sh sort.sh.txt
Object created pipeline-slurm.sh README.md requirements.txt setup.py update_snapshot.sh
Object saved to file spiketrain_d41d.hkl setup.sh rplparallel-slurm.sh slurm.sh
/data/picasso/20181105/session01/array04/channel120/cell02 checkfiles2.sh
spikecount2-user@ip-10-0-13-114 PyHipp]$ nano checkfiles2.sh
4012e) [ec2-user@ip-10-0-13-114 PyHipp]$ nano checkfiles2.sh
Object created r@ip-10-0-13-114 PyHipp]$ nano checkfiles2.sh
Object saved to file spiketrain_d41d.hkl squeue
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=23, tm_hour=2, tm_min=45, tm_sec=45, tm_wday=0, tm_yday=296, tm_isdst=
0) 2 queue1 rplpl ec2-user R 30:40 1 queue1-dy-m5a-4xlarge-1
2754.174162626665 queue1 rplspl ec2-user R 30:35 1 queue1-dy-m5a-4xlarge-1
{base) [ec2-user@ip-10-0-13-114 PyHipp]$ squeue
"MessageId": "f78d87ac-a680-568e-88a5-da03461a72b3" TIME NODES NODELIST(REASON)
} 3 queue1 rplspl ec2-user R 39:06 1 queue1-dy-m5a-4xlarge-1
(base) [ec2-user@ip-10-0-13-114 PyHipp]$
```

Repeat these steps from Lab 5:

Step 36

The screenshot shows the AWS Billing console interface. The left sidebar contains navigation links for Billing, Cost Management, and Preferences. The main content area displays the 'AWS estimated bill summary' for the billing period of October 1 - October 31, 2023. The summary shows a total charge of USD 0.00 for the account ID 547215547739, provided by Amazon Web Services Singapore Private Limited. Below this, the 'Highest estimated cost by service provider' section shows a highest service spend of USD 0.00 and a highest AWS Region spend of USD 21.53 for the Simple Storage Service in the Asia Pacific (Singapore) region.

Billing

- Home
- Billing
 - Bills
 - Payments
 - Credits
 - Purchase orders
 - Cost & usage reports
 - Cost categories
 - Cost allocation tags
 - Free tier
 - Billing Conductor
- Cost Management
 - Cost explorer
 - Budgets
 - Budgets reports
 - Savings Plans
- Preferences
 - Billing preferences
 - Payment preferences
 - Consolidated billing
 - Tax settings

AWS estimated bill summary

Total charges and payment information

Account ID: 547215547739

Billing period: October 1 - October 31, 2023

Service provider: Amazon Web Services Singapore Private Limited

Total in USD: USD 0.00

Estimated grand total: USD 0.00

Payable by Account ID: 870849704511

Payment information

Highest estimated cost by service provider

Viewing Amazon Web Services Singapore Private Limited

Highest service spend		Trend compared to prior month		Highest AWS Region spend		Trend compared to prior month	
USD 0.00		No data to display.		USD 21.53		No data to display.	
Service name: Simple Storage Service				Region name: Asia Pacific (Singapore)			

Step 37

The screenshot shows the AWS Cost Management console interface. The left sidebar contains navigation links for Home, Cost Explorer, Reports, Budgets, Cost Anomaly Detection, Rightsizing recommendations, Savings Plans, and Reservations. The main content area displays the 'Home' page with a 'Cost summary' section showing current month costs of \$15.67 (up 100% over last month) and forecasted month-end costs of - (down 0% over last month). Below this, the 'Daily unblended costs' section shows a bar chart of costs over time, with a peak around October 12th. The right sidebar contains 'October trends' and 'More resources' sections.

AWS Cost Management

- Home
- Cost Explorer
- Reports
- Budgets
- Cost Anomaly Detection
- Rightsizing recommendations
- Savings Plans
 - Overview
 - Inventory
 - Recommendations
 - Purchase Savings Plans
 - Utilization report
 - Coverage report
 - Cart
- Reservations
 - Overview
 - Recommendations
 - Utilization report
 - Coverage report

Home

Cost summary

Current month costs: \$15.67 (Up 100% over last month)

Forecasted month-end costs: - (Down 0% over last month)

Daily unblended costs

View in Cost Explorer

Cost (\$)

8

6

4

2

0

Sep 02 Sep 07 Sep 12 Sep 17 Sep 22 Sep 27 Oct 02 Oct 07 Oct 12 Oct 17 Oct 23

October trends

Once you have more usage across AWS, we will provide helpful cost and usage insights.

More resources

- What is AWS Billing and Cost Management?
- Documentation
- FAQ

Step 75

The screenshot shows the AWS Billing console interface. The top navigation bar includes the AWS logo, a search bar, and user information. The left sidebar contains a navigation menu with the following sections:

- Billing**
 - Home
 - Billing
 - Bills
 - Payments
 - Credits
 - Purchase orders
 - Cost & usage reports
 - Cost categories
 - Cost allocation tags
 - Free tier
 - Billing Conductor
- Cost Management**
 - Cost explorer
 - Budgets**
 - Budgets reports
 - Savings Plans
- Preferences**
 - Billing preferences
 - Payment preferences
 - Consolidated billing
 - Tax settings

The main content area is titled "Overview" and shows a list of budgets. At the top, there are buttons for "Download CSV", "Actions", and "Create budget". Below these is a search bar and a "Show all budgets" dropdown. The table below lists the budgets:

<input type="checkbox"/>	Name	Thresholds	Budget	Amount us...	Forecasted...	Current vs. budgeted
<input type="checkbox"/>	EE3801 Budget	OK	\$200.00	\$15.67	-	7.83