



Using Performance Hub with Autonomous Database



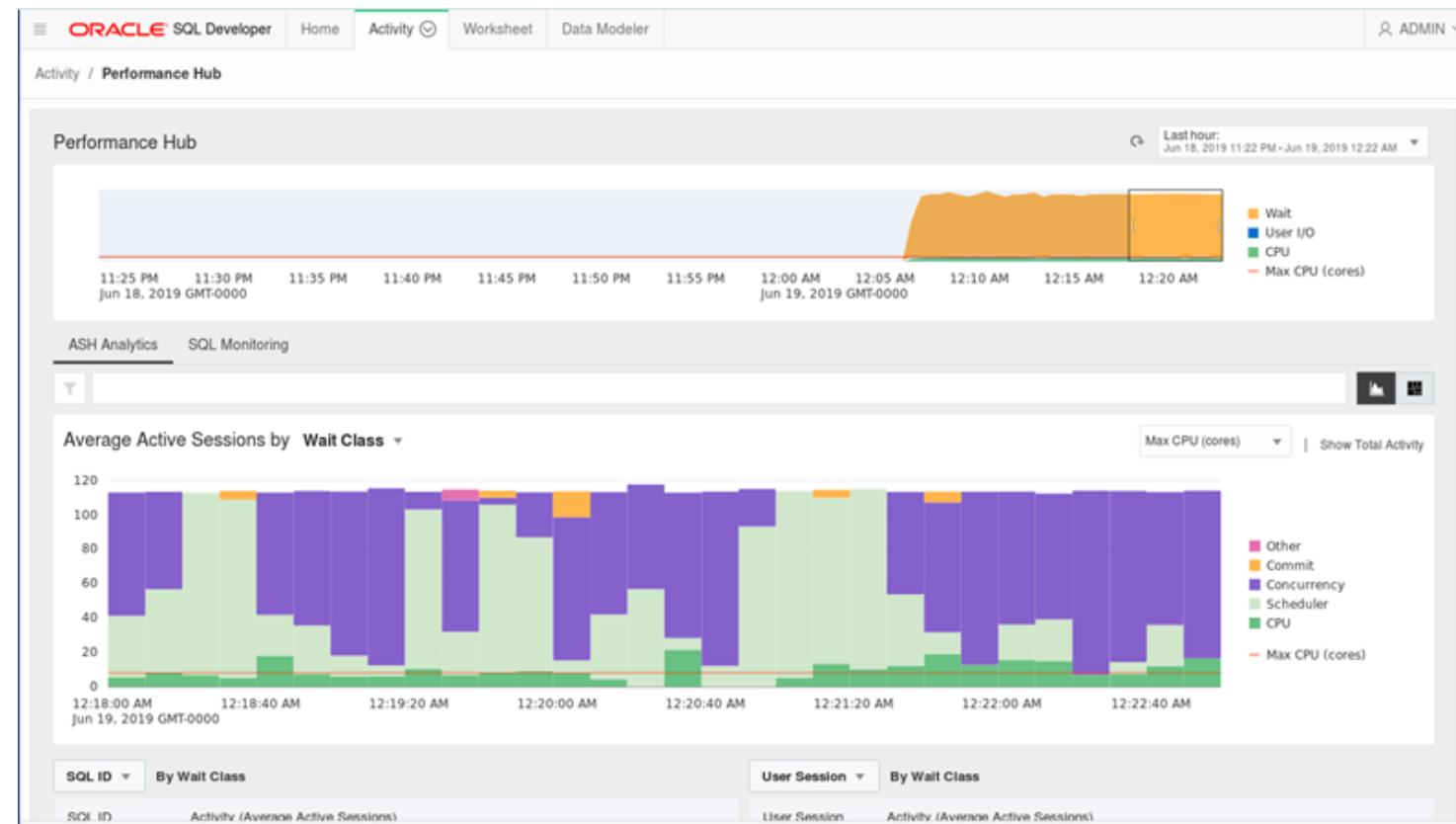
Agenda

- What is “Performance Hub”
- Target audiences for ADB monitoring tools
- Click-through demo



What About ATP-Dedicated?

Performance Hub is available on ATP-D - located in **SQL Dev Web** under **Activity**



What is Performance Hub?

What is *Performance Hub*?

Performance Hub can be used to:

- Monitor and diagnose the performance of an Autonomous Database
- Provides access to ASH Analytics and SQL Monitoring features
 - Same information as ASH Analytics and SQL Monitoring tools found in Oracle's EM Express, Oracle Management Cloud (OMC), and SQL Developer Web applications.
- Provides real-time + historical performance data.
 - Historical view uses statistics collected as part of the hourly snapshots of ADB



ADB Performance Monitoring Using Performance Hub

Performance Hub page consists of the following sections:

1. **Time Range** field and time slider
2. **Active Session History (ASH) Analytics** tab
3. **SQL Monitoring** tab

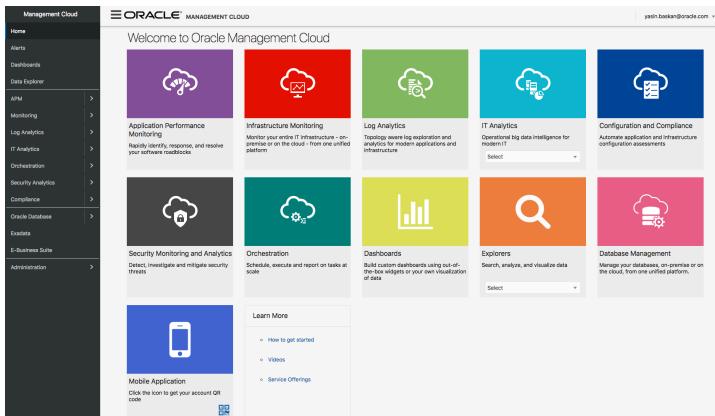


Matching Monitoring Tools to Personas

Where does Performance Hub fit in with all the other ADB monitoring tools?

DRAFT: Monitoring for Technical Enterprise-Level Personas

Oracle Management Console

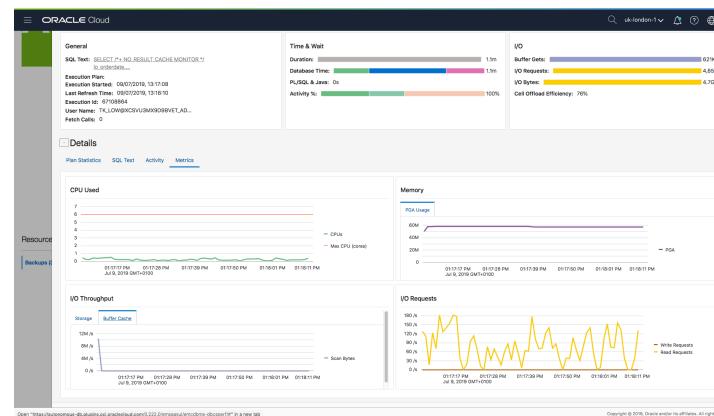


Fleet Administrators

Consolidated view of multiple ADB instances across multiple tenancies



OCI Performance Hub

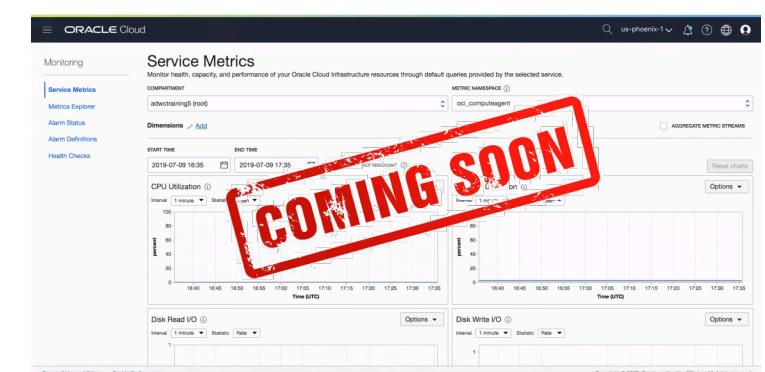


Cloud Administrators

Console for managing/monitoring performance of individual ADB instances. Real time data on database performance and efficiency with drill down capability

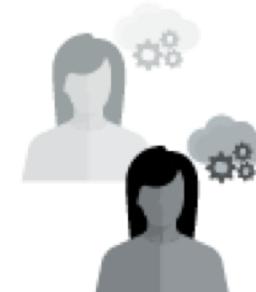


OCI Service Metrics



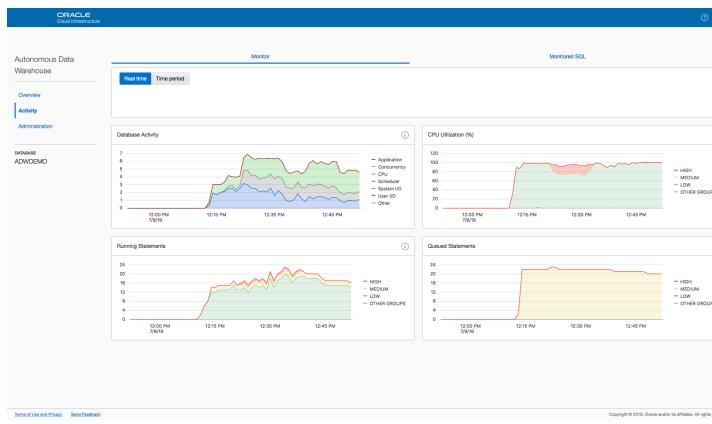
Cloud & Fleet Administrators

Monitoring and notifications management console



DRAFT: Monitoring for Non-Enterprise/Non-DBA Personas

Instance Service Console



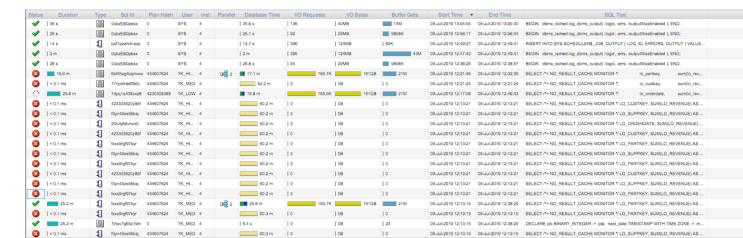
The screenshot shows the Oracle Autonomous Data Warehouse Instance Service Console. It features a navigation bar on the left with sections for Autonomous Data Warehouse, Overview, Activity, Administration, and Service Admin. The main area has tabs for Monitor and Monitored SQL. Under Monitor, there are three charts: Database Activity (CPU Utilization %), CPU Utilization (%), and Running Statements. The Database Activity chart shows CPU utilization over time, with a legend for HIGH, MEDIUM, LOW, and OTHER GROUPS. The CPU Utilization (%) chart shows CPU usage by instance, and the Running Statements chart shows the number of statements running.

Data Mart/DW Owners Technical Developers

Simple, intuitive high level overview of ADB instance status



SQL Developer Real-Time Monitoring



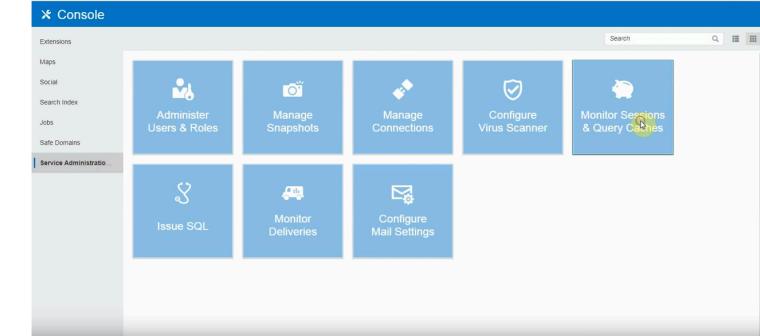
The screenshot shows the Oracle SQL Developer Real-Time Monitoring feature. It displays a grid of active database sessions. Each session row includes a session ID, user name, host, port, connection type, duration, and the SQL query being executed. The queries shown include various SELECT statements and PL/SQL blocks, such as `SELECT * FROM DBA_MONITOR` and `DECLARE ...` blocks.

Technical SQL and PL/SQL Developers

Application developers working with ADB instances (dev, test, QA etc.) – needing access to fine-grained SQL performance data



OAC Query Logs



The screenshot shows the Oracle Analytics Cloud (OAC) Service Administration console. It has a sidebar with extensions like Maps, Social, Search Index, Jobs, and Safe Domains. The main area is titled 'Console' and contains several management tiles: Administrate Users & Roles, Manage Snapshots, Manage Connections, Configure Virus Scanner, Monitor Sessions & Query Quotas, Issue SQL, Monitor Deliveries, and Configure Mail Settings.

Technical LOB User

LOB users working within Analytics Cloud needing access to query performance data



Performance Hub In Action!

Dashboard

Identity Domain adwc4pm - North America



Guided Journey

Explore what you can do with Oracle Cloud services

Create Instance

Provision a new service in minutes

Account Management

Administer and manage your account and orders

Customize Dashboard

Specify which services appear on the dashboard

Cloud Services

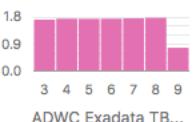
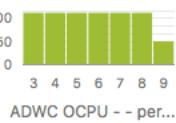
0 Important Notifications

IaaS/PaaS (Cloud Account)
\$1,000 of \$1,000
Remaining
(2/2/2018 - 2/2/2023)

Autonomous Data Warehouse

Subscription Id:590756059

Instances (5)



Management Cloud

Subscription Id:590756059

Instance (1)



Need help? Click to chat

 Dashboard

Identity Domain adwc4pm - North America



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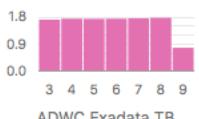
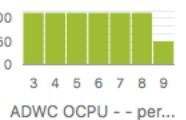
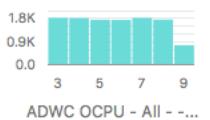
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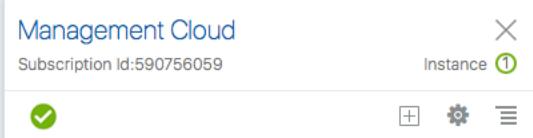
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- [View Details](#)
- [Open Service Console](#)
- [View Account Usage Details](#)

Need help? [Click to chat](#)

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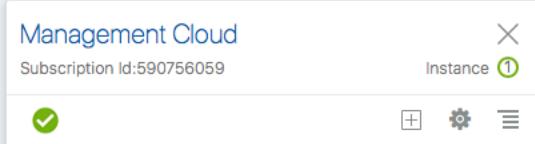
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Need help? Click to chat

ORACLE®
Cloud Infrastructure



Autonomous Database

Autonomous Database

Autonomous Container Database

Autonomous Exadata Infrastructure

List Scope

COMPARTMENT

ADW_Frankfurt

adwc4pm (root)/ADW_Frankfurt

Filters

WORKLOAD TYPE

Data Warehouse

STATE

Any state

Autonomous Databases *in ADW_Frankfurt Compartmet*

Create Autonomous Database

Name	Database Name	State	Dedicated Infrastructure	CPU Core Count	Storage (TB)	Workload Type	Created	⋮
ADWDEMO	ADWDEMO	● Available	No	1	1	Data Warehouse	Mon, 03 Jun 2019 15:18:08 GMT	⋮

Displaying 1 Autonomous Database < Page 1 >

Quick Actions

 COMPUTE Create a VM instance	2-6 mins	 AUTONOMOUS TRANSACTION PROCESSING Create a database	3-5 mins	 AUTONOMOUS DATA WAREHOUSE Create a data warehouse	3-5 mins
 NETWORKING Create a virtual cloud network	1-3 mins	 OBJECT STORAGE Store data	2-6 mins	 NETWORKING SOLUTIONS Create an IPsec VPN connection	2-3 mins

Solutions



Jump Start

Hands-on use of Oracle Cloud Infrastructure with self-paced learning and demo labs, for free.



Mission Critical Databases

Leverage a range of modern cloud data management options, with 100% on-premises compatibility.



Resource Manager

Automate the provisioning of your cloud infrastructure resources using HashiCorp Terraform.



Big Data and Analytics

Deploy popular technologies like Cloudera, Datastax, Confluent, and H2O on the fastest cloud infrastructure.

Learn

 Adding users and groups	 Understanding compartments	 Launching your first instance
 Understanding service limits	 Key concepts and terminology	 Overview of Autonomous Database



All systems operational
View health dashboard

Action Center

 User Management
[Add a user to your tenancy](#)

 Billing
[View your bill](#)

What's New

Oracle and Microsoft announce cloud interoperability to support multicloud deployments

Jun 5, 2019

Meet demand with auto scaling and on-demand scaling for Autonomous Database

Jun 4, 2019

Add new spatial intelligence support to your Autonomous Data Warehouse workloads

May 30, 2019

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May 21, 2019

Streamline solution deployments by using Oracle Cloud Infrastructure Service Broker for Kubernetes

May 20, 2019

[View release notes...](#)

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[Documentation](#)
[Oracle Cloud Community Forum](#)
[Oracle Cloud Compliance](#)

Alternative entry point....

- Some customers may login directly to OCI home page rather than myservices home page...



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Autonomous Database

Autonomous Database

Autonomous Container Database

Autonomous Exadata Infrastructure

List Scope

COMPARTMENT

ADW_Frankfurt

adwc4pm (root)/ADW_Frankfurt

Filters

WORKLOAD TYPE

All

STATE

Any state

Autonomous Databases *in ADW_Frankfurt Compartmet*

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Displaying 1 Autonomous Database < Page 1 >

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Displaying 1 Autonomous Database Page 1



Autonomous Database » Autonomous Database Details

ADWDEMO

[DB Connection](#) [Performance Hub](#) [Service Console](#) [Scale Up/Down](#) [Stop](#) [Actions ▾](#)[Autonomous Database Information](#) [Tags](#)

General Information

Database Name: ADWDEMO**Workload Type:** Data Warehouse**Compartment:** adwc4pm (root)/ADW_Frankfurt**OCID:** ...nwjtoa [Show](#) [Copy](#)**Created:** Mon, 03 Jun 2019 15:18:08 GMT**CPU Core Count:** 1**Storage (TB):** 1**License Type:** Bring Your Own Licence**Database Version:** 18c**Auto Scaling:** Enabled **Lifecycle State:** Available

Infrastructure

Dedicated Infrastructure: No

Backup

Last Automatic Backup: Mon, 08 Jul 2019 13:07:26 GMT

Resources

Backups

Backups are automatically created daily.

[Create Manual Backup](#)

Name	State	Type	Started	Ended	⋮
Jul 08, 2019 13:07:26 PM UTC	Active	Incremental, initiated by Auto Backup	Mon, 08 Jul 2019 12:37:49 GMT	Mon, 08 Jul 2019 13:07:26 GMT	⋮
Jul 04, 2019 23:47:03 PM UTC	Active	Incremental, initiated by Auto Backup	Thu, 04 Jul 2019 23:46:54 GMT	Thu, 04 Jul 2019 23:47:03 GMT	⋮

Autonomous Database » Autonomous Database Details

ADWDEMO

DB Connection

Performance Hub

Autonomous Database Information

Tags



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Dedicated Infrastructure: No

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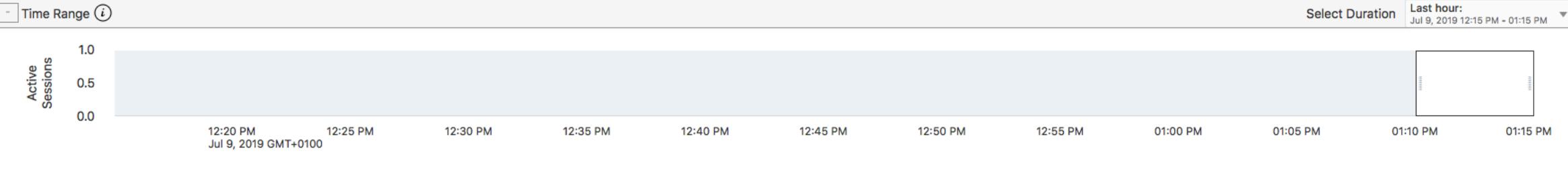
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Performance Hub

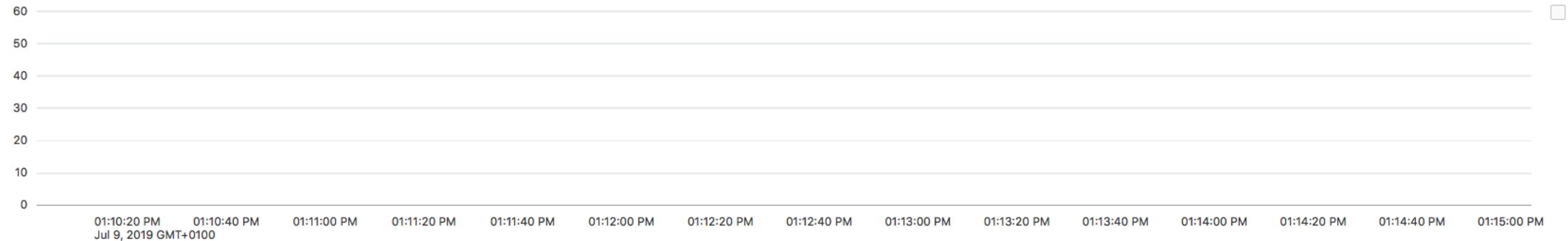
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options

Average Active Sessions by [Consumer Group](#) ▾

Display

 Max CPUs Total Activity[SQL ID](#) ▾ by Consumer Group

SQL ID

Activity (Average Active Sessions)

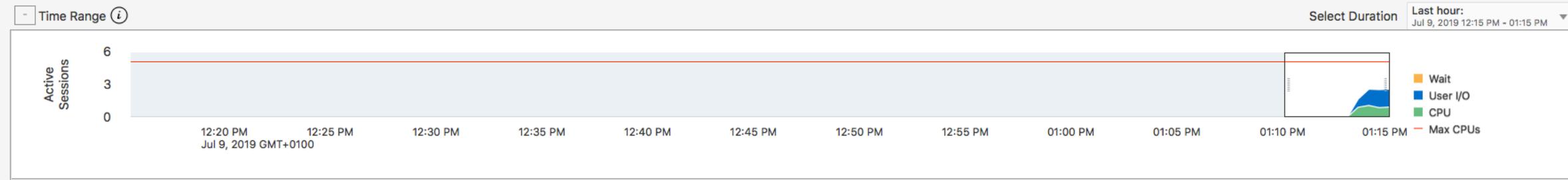
[User Session](#) ▾ by Consumer Group

User Session

Activity (Average Active Sessions)

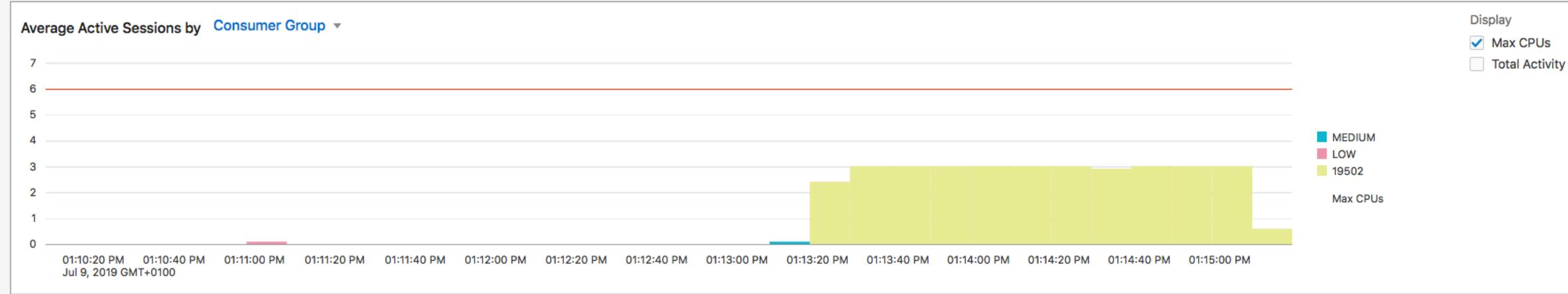
[Refresh](#)

Performance Hub

[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options

[SQL ID](#) [by Consumer Group](#)

SQL ID Activity (Average Active Sessions)

[90tvkj8dvhwr0](#)[User Session](#) [by Consumer Group](#)

User Session Activity (Average Active Sessions)

[4:7236,62552](#)

1

DEMO

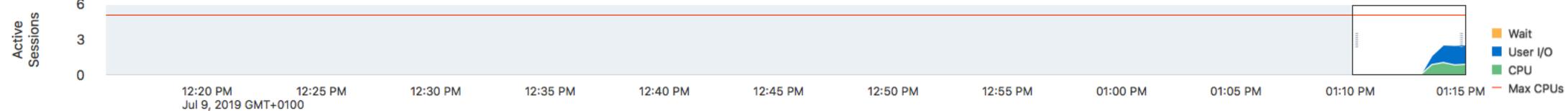
[Close](#)

Performance Hub

[Refresh](#)

Time Range

Select Duration

Last hour:
Jul 9, 2019 12:15 PM - 01:15 PM[ASH Analytics](#) [SQL Monitoring](#)

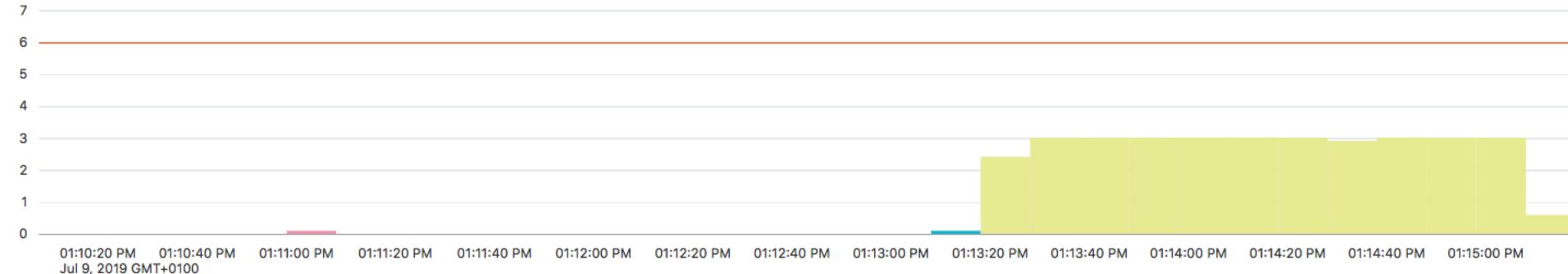
Applied Filters: None

[View Options](#)

Average Active Sessions by Consumer Group

Display

-
- Max CPUs
-
-
- Total Activity



Resource

Backups (3)

SQL ID ▾ by Consumer Group

SQL ID

Activity (Average Active Sessions)

90tvkj8dvhwr0

User Session ▾ by Consumer Group

User Session

Activity (Average Active Sessions)

4:7236,62552

0.35

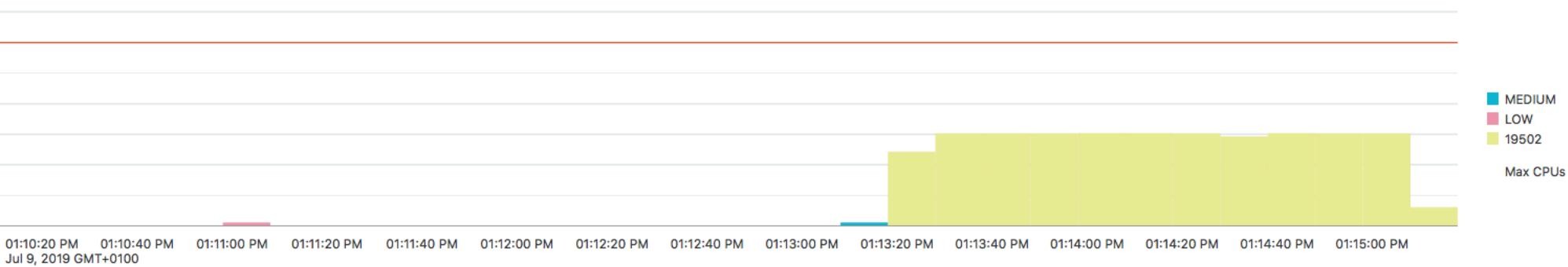
Time Range field and time slider

- Time Range selector is displayed on the top of the Performance Hub page
- Use the Select Duration field to set the time duration
- Default, Last 60 mins is selected
 - Specify to view Last 8 hours, Last 24 hours, Last week
 - Specify a custom time range
- Time Range field shows active sessions in chart form.
 - Active sessions chart displays avg number of active sessions broken down by CPU, User I/O, and Wait.





Average Active Sessions by Consumer Group ▾

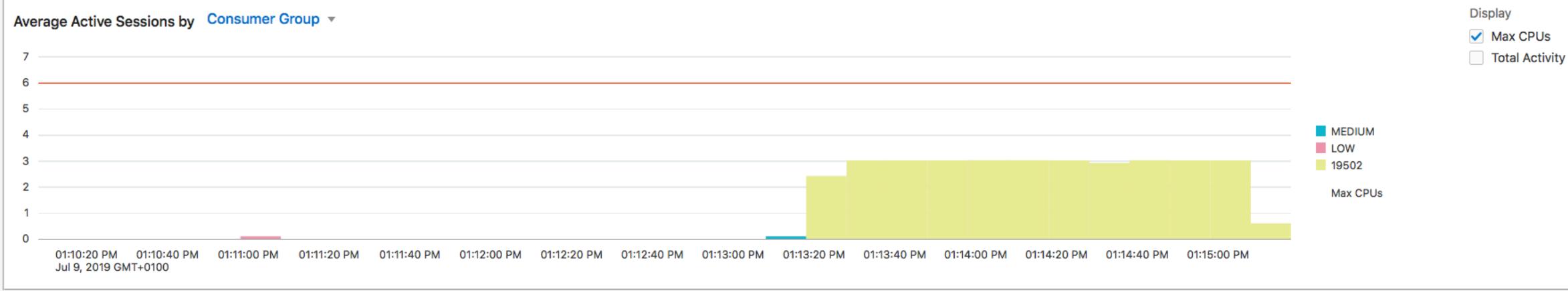


SQL ID ▾ by Consumer Group

SQL ID	Activity (Average Active Sessions)
90tvkj8dvhwr0	0.71
fxxc9rgf97kyr	0.35
Others	< 0.01

User Session ▾ by Consumer Group

User Session	Activity (Average Active Sessions)
4:7236,62552	0.35
4:14943,38169	0.35
4:13640,57960	0.35
Others	0.01

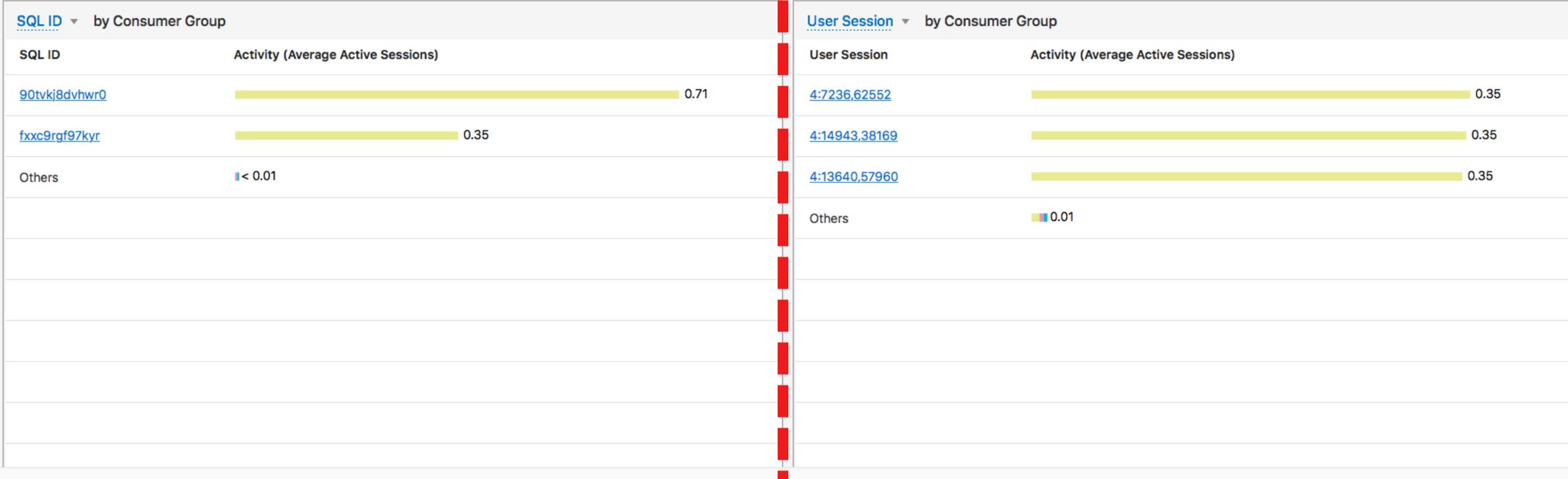
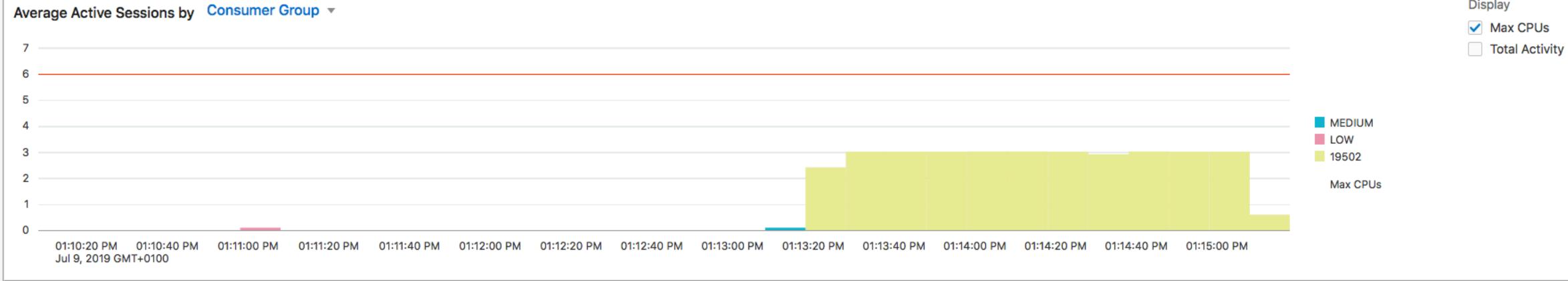


SQL ID ▾ by Consumer Group

SQL ID	Activity (Average Active Sessions)
90tvkj8dvhwr0	0.71
fxxc9rgf97kyr	0.35
Others	< 0.01

User Session ▾ by Consumer Group

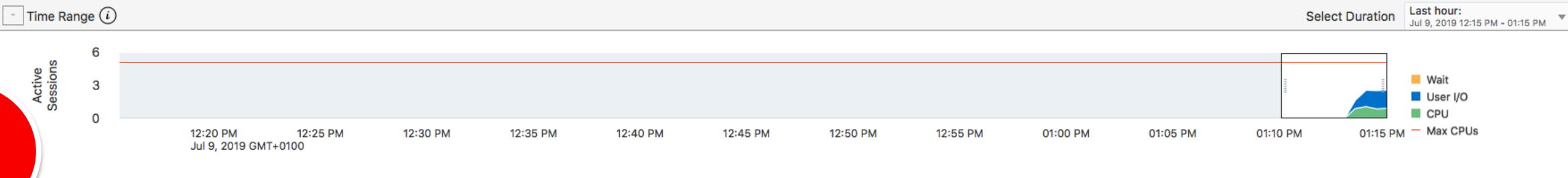
User Session	Activity (Average Active Sessions)
4:7236,62552	0.35
4:14943,38169	0.35
4:13640,57960	0.35
Others	0.01





Performance Hub

Refresh



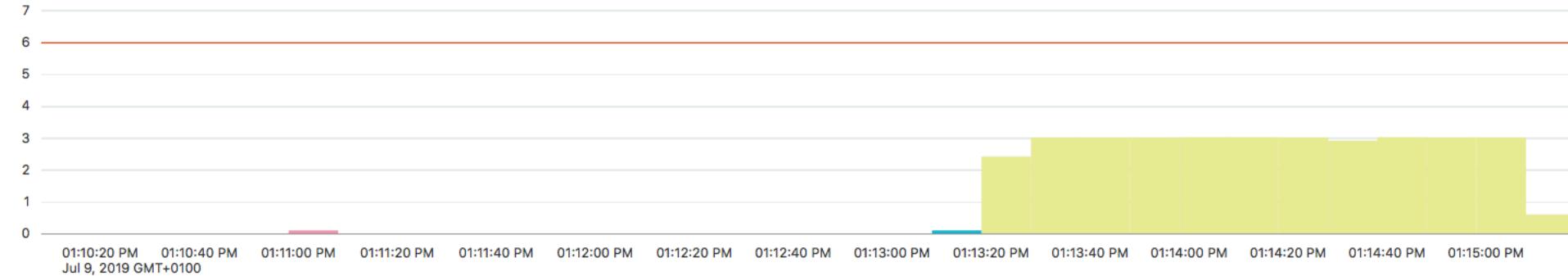
2

ASH Analytics SQL Monitoring

Applied Filters: None

View Options

Average Active Sessions by Consumer Group

Display
 Max CPUs
 Total Activity

SQL ID ▾ by Consumer Group

SQL ID Activity (Average Active Sessions)

90tvkj8dvhwr0

User Session ▾ by Consumer Group

User Session Activity (Average Active Sessions)

4:7236,62552

Active Session History (ASH) Analytics

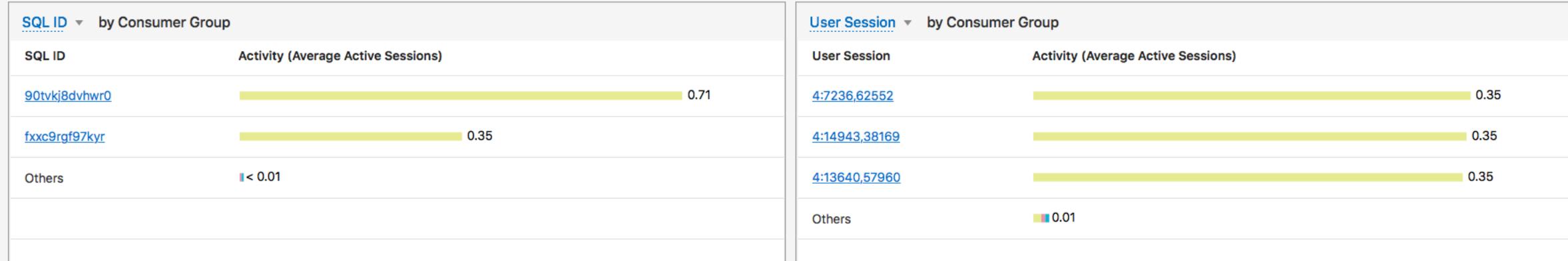
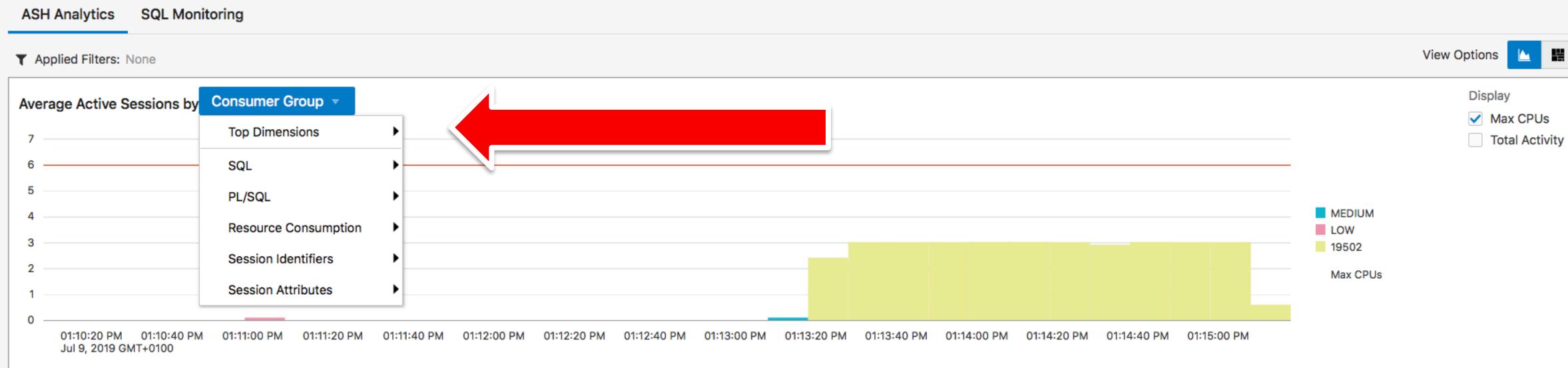
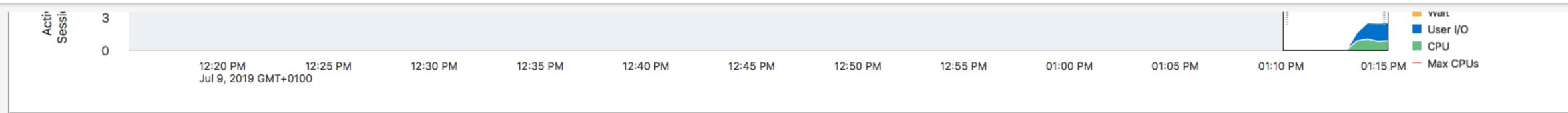
- Shows Active Session History (ASH) analytics charts to explore ASH data
- Drill down into database performance across multiple dimensions such as **Consumer Group**, **Wait Class**, **SQL ID**, and **User Name**
- Select an Average Active Sessions dimension and view the top activity for that dimension for the selected time period.
- For information on ASH, see [Active Session History \(ASH\)](#) in *Oracle Database Concepts*.

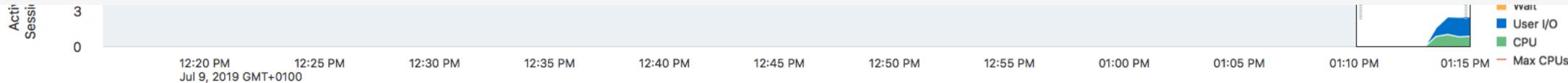


SQL Monitoring

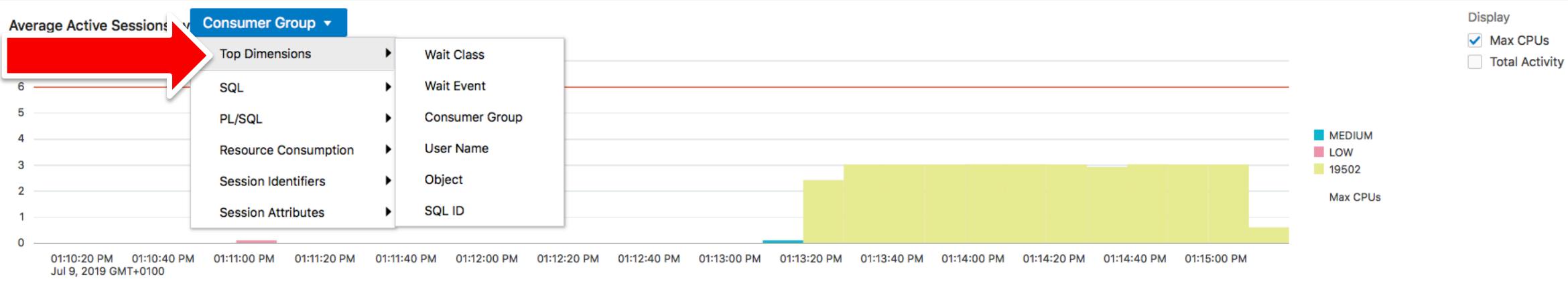
- SQL only monitored if running for at least five seconds or run in parallel
- Displays monitored SQL statement executions by dimensions including **Last Active Time**, **CPU Time**, and **Database Time**
- Displays currently running SQL statements and SQL statements that completed, failed, or were terminated.
- Information includes **Status**, **Duration**, and **SQL ID**
 - **Status** column has the following icons:
 - A spinning icon indicates that the SQL statement is executing.
 - A green check indicates SQL statement completed
 - A red cross icon indicates that the SQL statement did not complete
 - A clock icon indicates that the SQL statement is queued





[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options 

Display

 Max CPUs Total Activity

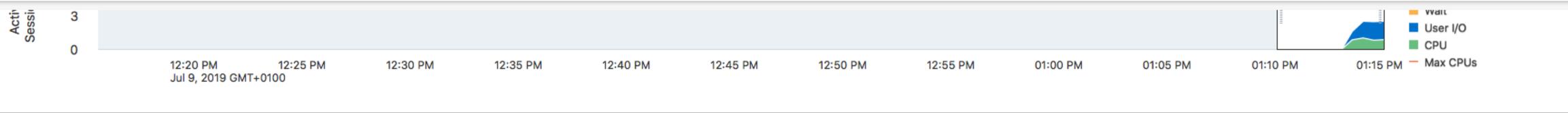
MEDIUM
LOW
19502
Max CPUs

[SQL ID](#) [by Consumer Group](#)

SQL ID	Activity (Average Active Sessions)
90tvkj8dvhwr0	0.71
fxxc9rgf97kyr	0.35
Others	< 0.01

[User Session](#) [by Consumer Group](#)

User Session	Activity (Average Active Sessions)
4:7236,62552	0.35
4:14943,38169	0.35
4:13640,57960	0.35
Others	0.01

[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options

Display

-
- Max CPUs
-
-
- Total Activity

Average Active Sessions by Consumer Group

Top Dimensions

SQL

PL/SQL

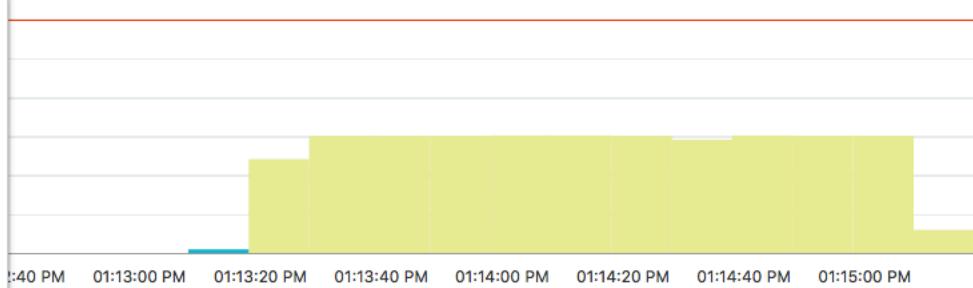
Resource Consumption

Session Identifiers

Session Attributes



- SQL ID
- Top Level SQL ID
- SQL Force Matching Signature
- SQL Plan Hash Value
- SQL Full Plan Hash Value
- SQL Plan Operation
- SQL Plan Operation Line
- SQL Opcode
- Top Level SQL Opcode



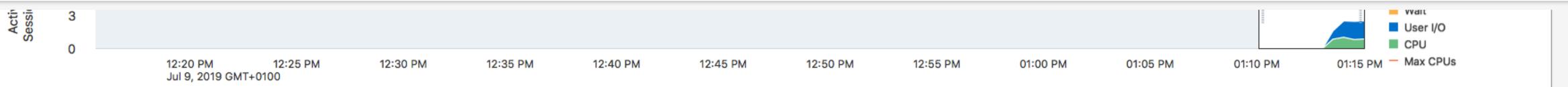
MEDIUM
LOW
19502
Max CPUs

SQL ID ▾ by Consumer Group

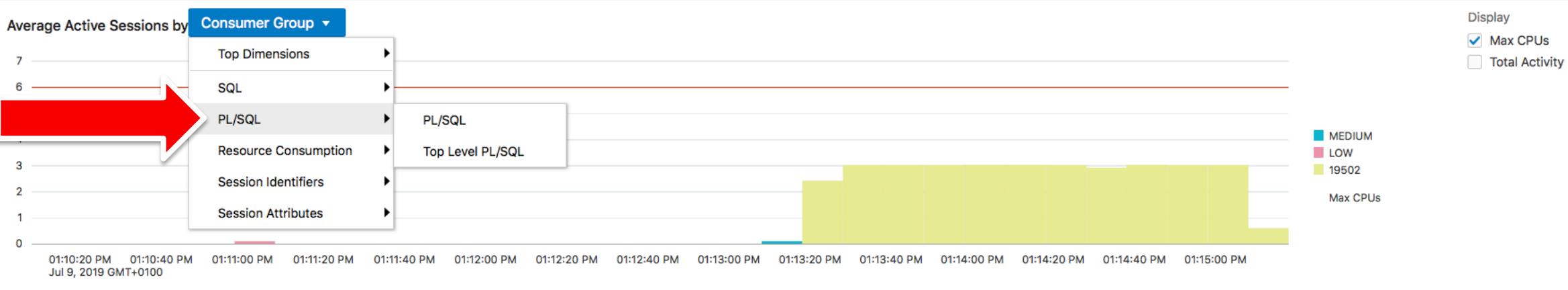
SQL ID	Activity (Average Active Sessions)
90tvkj8dvhwr0	0.71
fxxc9rgf97kyr	0.35
Others	< 0.01

User Session ▾ by Consumer Group

User Session	Activity (Average Active Sessions)
4:7236,62552	0.35
4:14943,38169	0.35
4:13640,57960	0.35
Others	0.01

ASH Analytics SQL Monitoring

Applied Filters: None

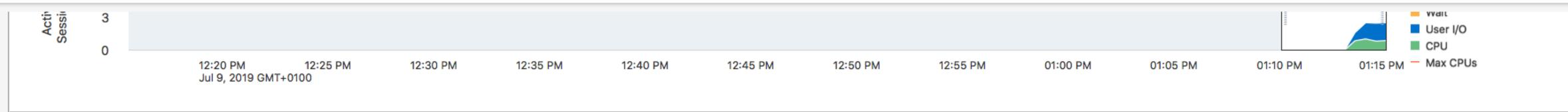
View Options  

SQL ID ▾ by Consumer Group

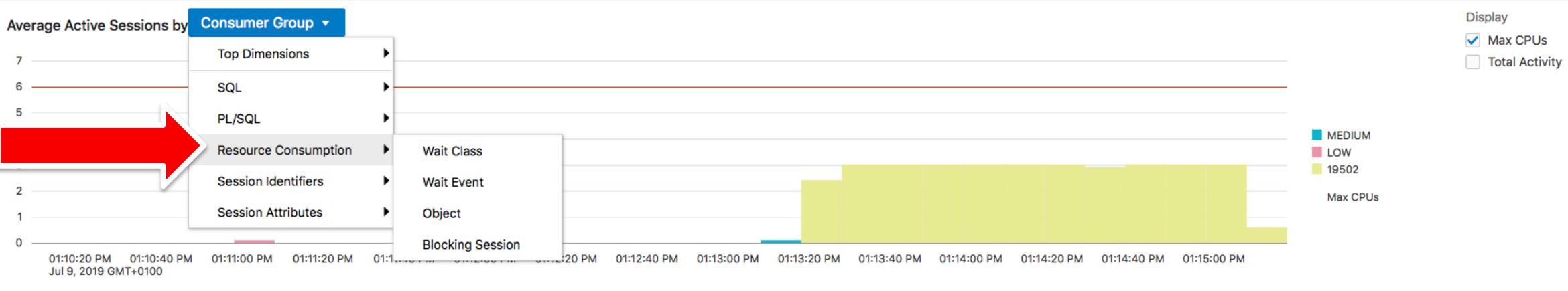
SQL ID	Activity (Average Active Sessions)
90tvkj8dvhwr0	0.71
fxxc9rgf97kyr	0.35
Others	< 0.01

User Session ▾ by Consumer Group

User Session	Activity (Average Active Sessions)
4:7236,62552	0.35
4:14943,38169	0.35
4:13640,57960	0.35
Others	0.01

ASH Analytics SQL Monitoring

Applied Filters: None

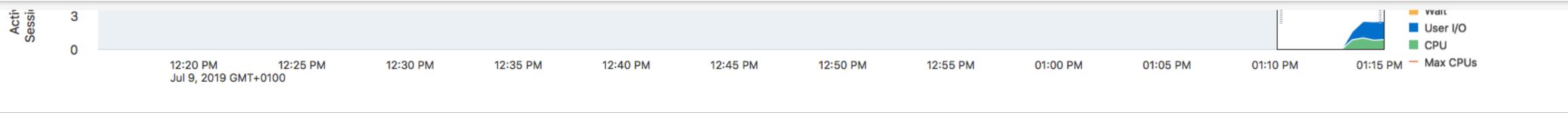
View Options 

SQL ID ▾ by Consumer Group

SQL ID	Activity (Average Active Sessions)
90tvkj8dvhwr0	0.71
fxxc9rgf97kyr	0.35
Others	< 0.01

User Session ▾ by Consumer Group

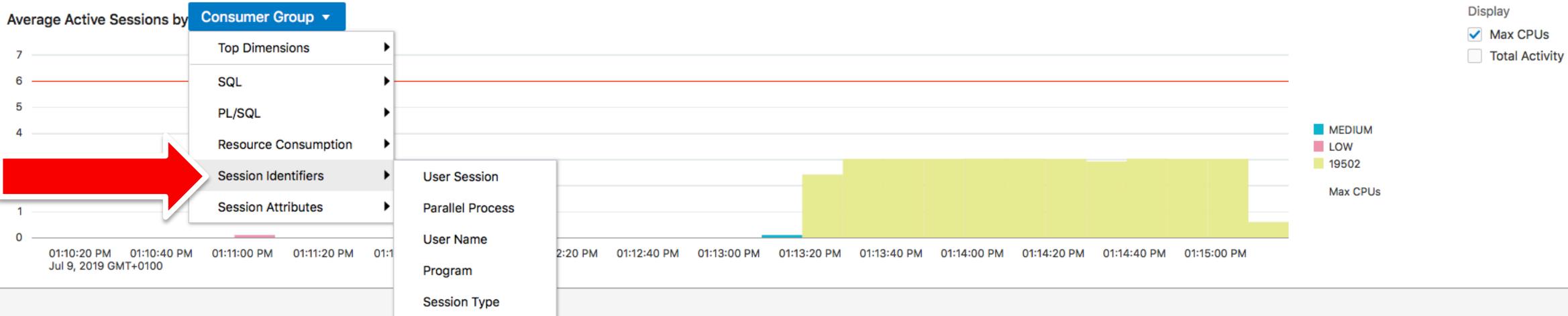
User Session	Activity (Average Active Sessions)
4:7236,62552	0.35
4:14943,38169	0.35
4:13640,57960	0.35
Others	0.01

[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

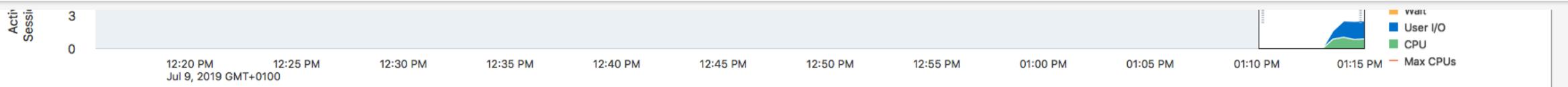
View Options

Display

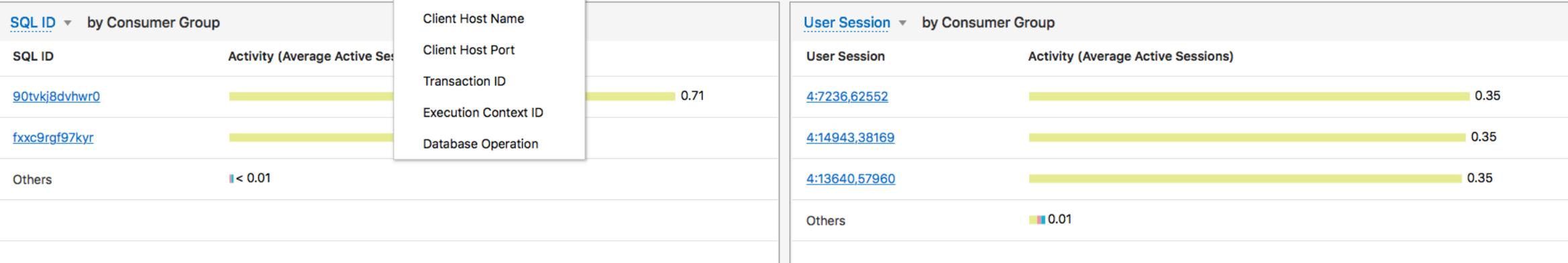
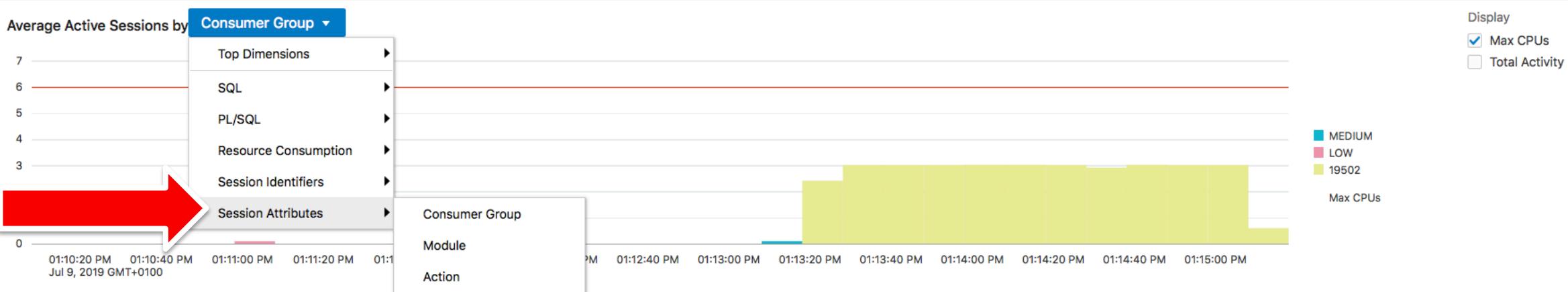
 Max CPUs Total Activity

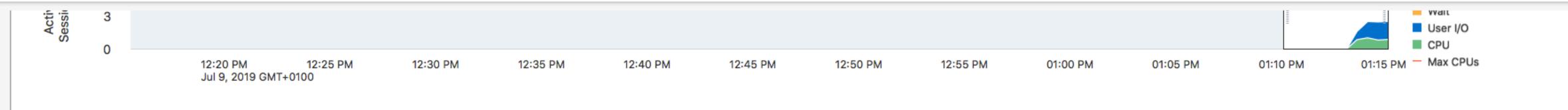
SQL ID	Activity (Average Active Sessions)
90tvkj8dvhwr0	0.71
fxxc9rgf97kyr	0.35
Others	< 0.01

User Session	Activity (Average Active Sessions)
4:7236,62552	0.35
4:14943,38169	0.35
4:13640,57960	0.35
Others	0.01

ASH Analytics SQL Monitoring

Applied Filters: None

View Options  

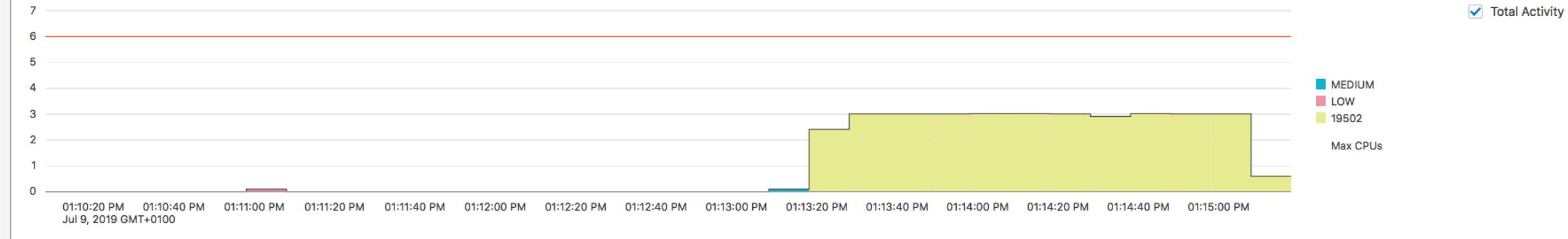
[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

[View Options](#)  

Average Active Sessions by Consumer Group

Display

 Max CPUs Total Activity

SQL ID ▾ by Consumer Group

SQL ID Activity (Average Active Sessions)

90tvkj8dvhwr0 0.71

fxxc9rgf97kyr 0.35

Others < 0.01

User Session ▾ by Consumer Group

User Session Activity (Average Active Sessions)

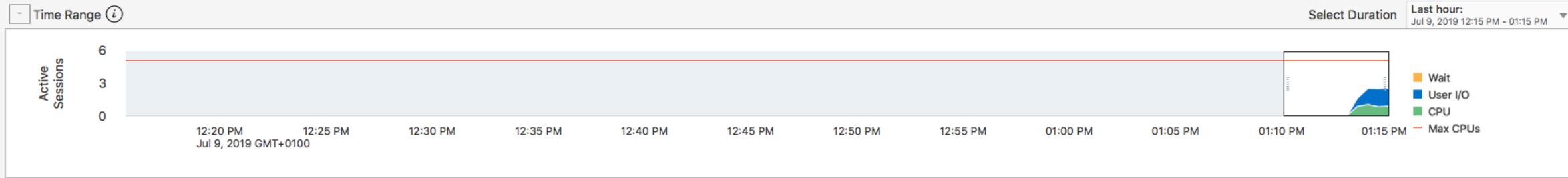
4:7236,62552 0.35

4:14943,38169 0.35

4:13640,57960 0.35

Others 0.01

Performance Hub

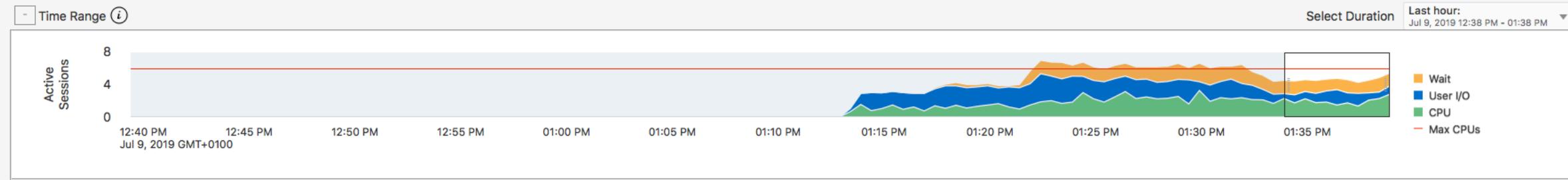
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options

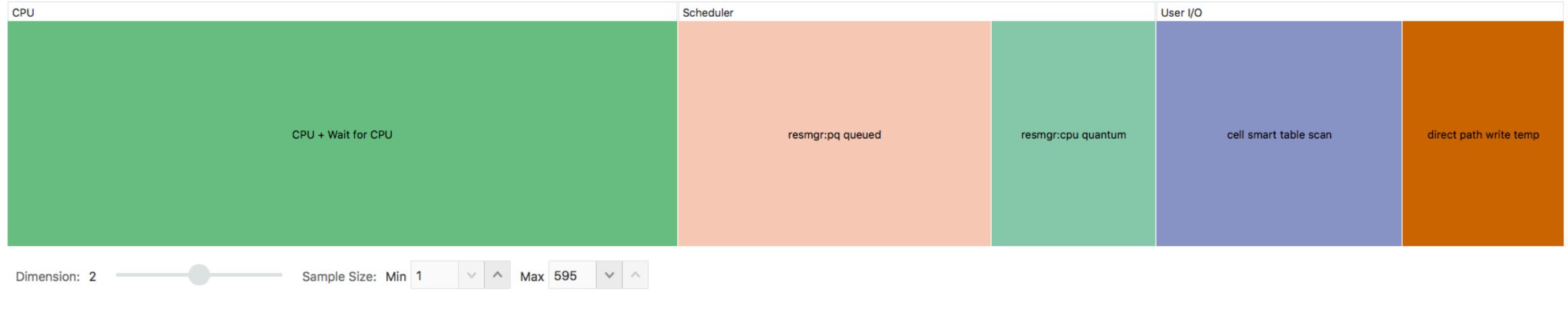


Performance Hub

[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

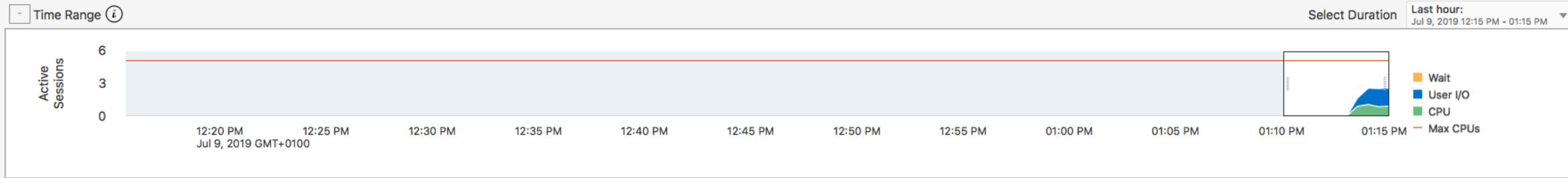
Applied Filters: None

View Options

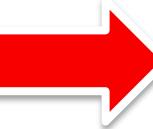
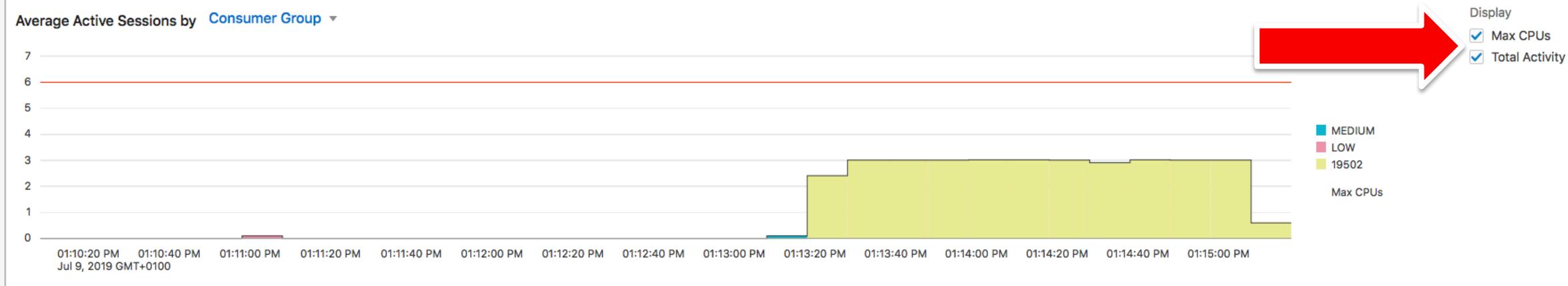
Average Active Sessions by [Wait Class, Wait Event](#)Mode [Simple](#)

View of a slightly busier system.....

Performance Hub

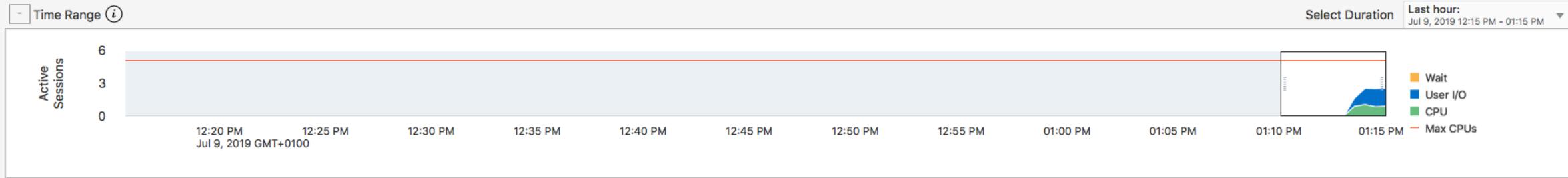
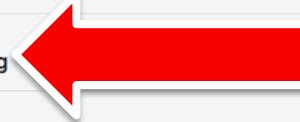
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

[View Options](#)

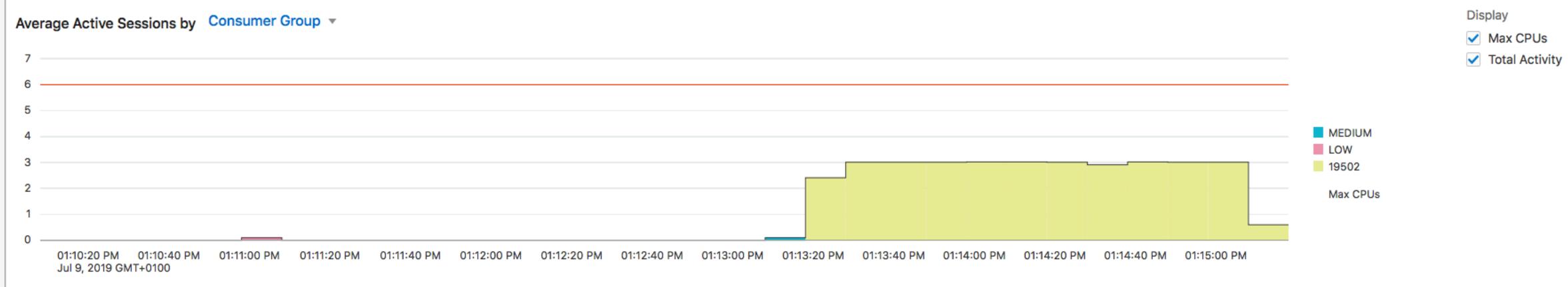
SQL ID	Activity (Average Active Sessions)	User Session	Activity (Average Active Sessions)
90tvkj8dvhwr0	0.71	4:7236,62552	0.35

Performance Hub

[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options



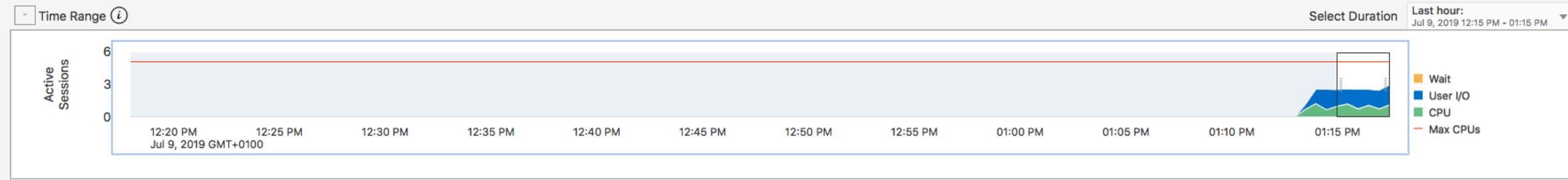
SQL ID ▾ by Consumer Group

SQL ID	Activity (Average Active Sessions)
90tvkj8dvhwr0	0.71

User Session ▾ by Consumer Group

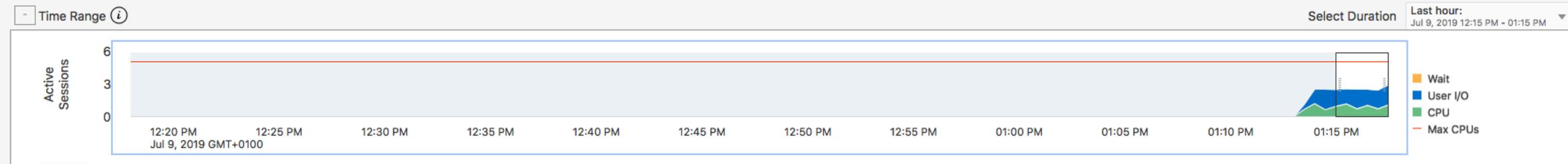
User Session	Activity (Average Active Sessions)
4:7236,62552	0.35

Performance Hub

[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)Top 100 by [Last Active Time](#)[Filter by Status, SQL ID or User Name](#)[Kill Session](#)

Status	Duration	Inst ID	SQL ID	SQL Plan Hash	User Name	Parallel	Database Time	I/O Requests	SQL Text
21.00s	21.00s	4	7dpq1q438cxz8	4230308389	TK_LOW@XCSVU3MX9D9BVET_ADWDEMO	21.03s	1,859	SELECT /*+ NO_RESULT_CACHE MON...	

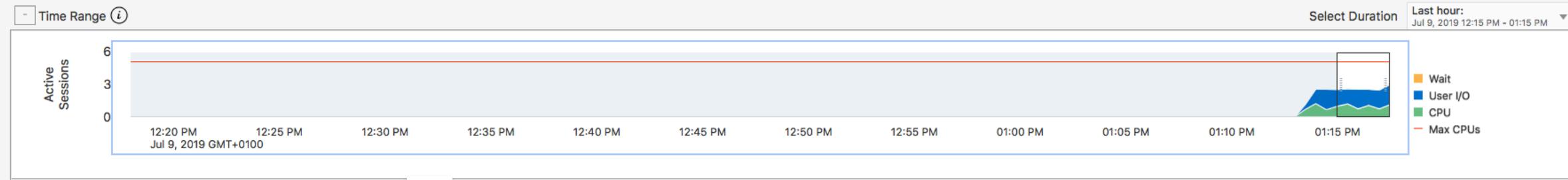
Performance Hub

[Refresh](#)[AS](#) [Analytics](#) [SQL Monitoring](#)To [Last Active Time](#) [Filter by Status, SQL ID or User Name](#)[Session](#)

Status	Duration	Inst ID	SQL ID	SQL Plan Hash	User Name	Parallel	Database Time	I/O Requests	SQL Text
EXECUTING	21.00s	4	7dpq1q438cxz8	4230308389	TK_LOW@XCSVU3MX9D9BVET_ADWDEMO		21.03s	1,859	SELECT /*+ NO_RESULT_CACHE MON...

EXECUTING

Performance Hub

[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)Top 100 by [Last Active Time](#)

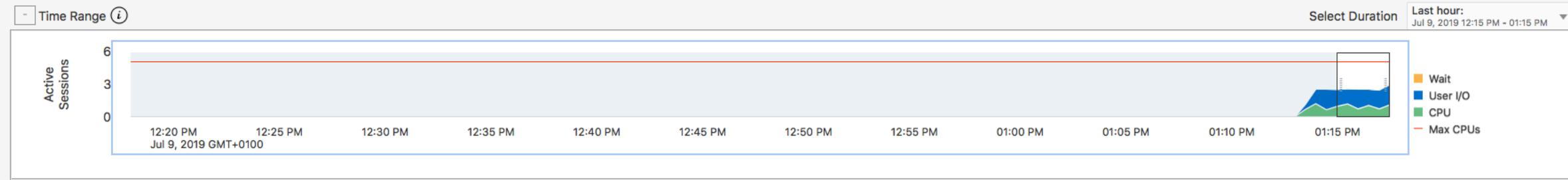
Filter by Status, SQL ID or User Name

[Kill Session](#)

Status	Duration	Inst ID	SQL ID	SQL Plan Hash	User Name	Parallel	Database Time	I/O Requests	SQL Text
	21.00s	4	7dpq1q438cxz8	4230308389	TK_LOW@XCSVU3MX9D9BVET_ADWDEMO		21.03s	1,859	SELECT /*+ NO_RESULT_CACHE MONITOR */ io_orderdate, sum(io_revenue) as revenue FROM ssbl...

 7dpq1q438cxz8
SELECT /*+ NO_RESULT_CACHE MONITOR */
 io_orderdate,
 sum(io_revenue) as revenue
 FROM ssbl...

Performance Hub

[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)Top 100 by [Last Active Time](#)

Filter by Status, SQL ID or User Name

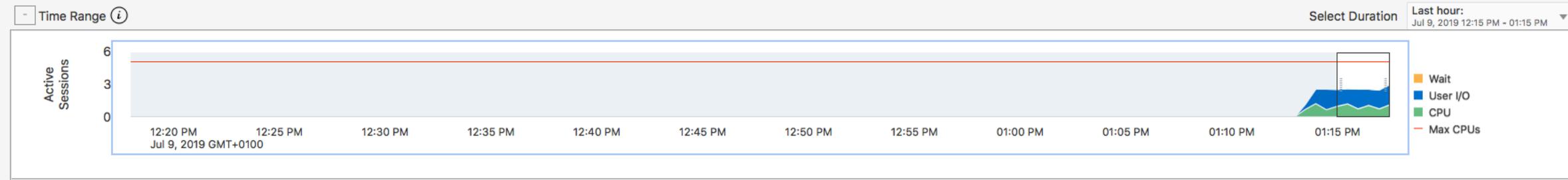
[Kill Session](#)

Status	Duration	Inst ID	SQL ID	SQL Plan Hash	User Name	Parallel	Database Time	I/O Requests	SQL Text
	21.00s	4	7dpq1q438cxz8	4230308389	TK_LOW@XCSVU3MX9D9BVET_ADWDEMO		21.03s	1,859	SELECT /*+ NO_RESULT_CACHE MON...

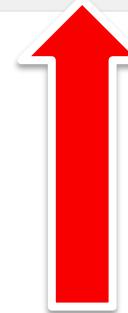


Session ID: 8379
Session Serial Number: 13168
User ID: 111
Module: SQL Developer
Service:
XCSVU3MX9D9BVET_ADWDEMO_low.adwc.oraclecloud.com
Program: SQL Developer
Container Name:
XCSVU3MX9D9BVET_ADWDEMO

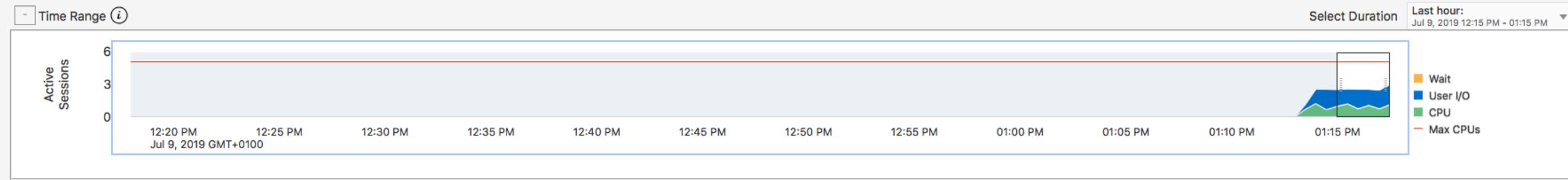
Performance Hub

[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)Top 100 by [Last Active Time](#)[Filter by Status, SQL ID or User Name](#)[Kill Session](#)

Status	Duration	Inst ID	SQL ID	SQL Plan Hash	User Name	Parallel	Database	SQL Text
21.00s	21.00s	4	7dpq1q438cxz8	4230308389	TK_LOW@XCSVU3MX9D9BVET_ADWDEMO		 CPU Time: 5.76s (27.39 %) User I/O Wait Time: 9.79s (46.55 %) Other Wait Time: 5.48s (26.06 %)	21.03s 1,859 SELECT /*+ NO_RESULT_CACHE MON...



Performance Hub

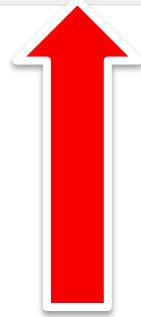
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Top 100 by Last Active Time

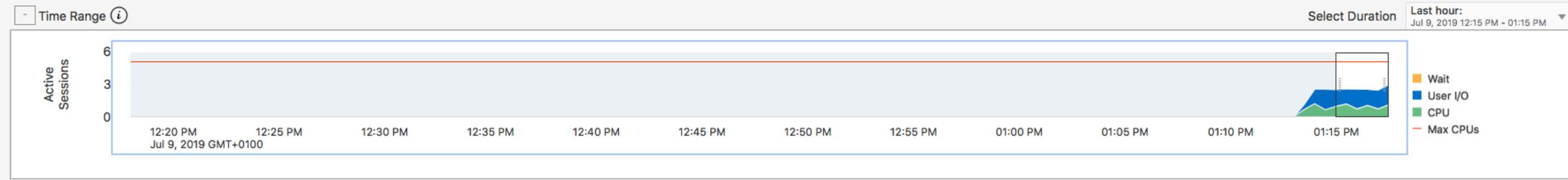
Filter by Status, SQL ID or User Name

Kill Session

Status	Duration	Inst ID	SQL ID	SQL Plan Hash	User Name	Parallel	Database Time	I/O Requests	Read Requests: 1,859 (100.00 %)	Read Bytes: 1,944M	Average I/O Read Size: 1,046K	Write Requests: 0.00 %	Write Bytes:	Average I/O Write Size:
	21.00s	4	7dpq1q438cxz8	4230308389	TK_LOW@XCSVU3MX9D9BVET_ADWDEMO		21.03s	1,859	SELECT /*+ NO_RESULT_CACHE MON...					



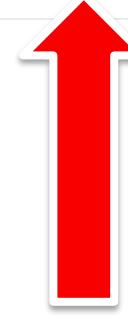
Performance Hub

[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)Top 100 by [Last Active Time](#)

Filter by Status, SQL ID or User Name

[Kill Session](#)

Status	Duration	Inst ID	SQL ID	SQL Plan Hash	User Name	Parallel	Database Time	I/O Requests	SQL Text
21.00s	21.00s	4	7dpq1q438cxz8	4230308389	TK_LOW@XCSVU3MX9D9BVET_ADWDEMO	21.03s	21.03s	1,859	SELECT /*+ NO_RESULT_CACHE MON...



Autonomous

ADWDEMO

[Close](#)[← Back](#)

Real-time SQL Monitoring

SQL ID: N/A Execution ID: N/A

[Save Report](#)[Refresh](#)

Loading Data...

A

Resource

Backups (3)

[Back](#)

Real-time SQL Monitoring

SQL ID: 7dpq1q438cxz8 Execution ID: 67108864 Status: Executing[Save Report](#)[Refresh](#)

Overview

General

SQL Text: [SELECT /*+ NO_RESULT_CACHE MONITOR */
lo_orderdate,...](#)

Execution Plan:

Execution Started: 09/07/2019, 13:17:08

Last Refresh Time: 09/07/2019, 13:18:10

Execution Id: 67108864

User Name: TK_LOW@XCSVU3MX9D9BVET_AD...

Fetch Calls: 0

Time & Wait

Duration:  1.1m

Database Time:  1.1m

PL/SQL & Java: 0s

Activity %:  100%

I/O

Buffer Gets:  621K

I/O Requests:  4,857

I/O Bytes:  4.7GB

Cell Offload Efficiency: 76%

Details

[Plan Statistics](#) [SQL Text](#) [Activity](#) [Metrics](#)

Plan Hash Value 4230308389

[Plan Notes](#)

	Operation	Object	Information	Est. Rows	Timeline	Executions	Rows	Mem	Temp	I/O Requests	Activity %
0	SELECT STATEMENT					1					
1	SORT GROUP BY			7,665M		1		174KB		 14	
2	TABLE ACCESS STORAGE LINEORDER			7,665M		1	13M	12.1MB	 5,342		

[Back](#)

Real-time SQL Monitoring

SQL ID: 7dpq1q438cxz8 Execution ID: 67108864 Status: Executing

[Save Report](#)[Refresh](#)

Overview

General

SQL Text: `SELECT /*+ NO_RESULT_CACHE MONITOR */
 l_o_orderdate,...`
Execution Plan:
Started: 09/07/2019, 13:17:08
Last Refresh Time: 09/07/2019, 13:18:10
Execution ID: 67108864
User: TK_LOW@XCSVU3MX9D9BVET_AD...
Fetches: 0

Time & Wait

Duration: 1.1m
Database Time: 1.1m
PL/SQL & Java: 0s
Activity %: 100%

I/O

Buffer Gets: 621K
I/O Requests: 4,857
I/O Bytes: 4.7GB
Cell Offload Efficiency: 76%

Details

[Plan Statistics](#) [SQL Text](#) [Activity](#) [Metrics](#)

Plan Hash Value 4230308389

[Plan Notes](#)

	Operation	Object	Information	Est. Rows	Timeline	Executions	Rows	Mem	Temp	I/O Requests	Activity %
0	SELECT STATEMENT					1					
1	SORT GROUP BY			7,665M		1		174KB		14	
2	TABLE ACCESS STORAGE LINEORDER			7,665M		1	13M	12.1MB		5,342	

[Back](#)

Real-time SQL Monitoring

SQL ID: 7dpq1q438cxz8 Execution ID: 67108864 Status: Executing

[Save Report](#)[Refresh](#)

Overview

General

SQL Text: `SELECT /*+ NO_RESULT_CACHE_MONITOR */
 lo_orderdate,
 sum(lo_revenue) as revenue
FROM ssb.lineorder
group by lo_orderdate
order by 1`

Execution Plan:

Execution Started: 7/2019, 13:17:08

Last Refresh Time: 7/2019, 13:18:10

Execution Id: 67108864

User Name: TK_L...

Fetch Calls: 0

Time & Wait

Duration: 1.1m

Database Time: 1.1m

PL/SQL & Java: 0s

Activity %: 100%

I/O

Buffer Gets: 621K

I/O Requests: 4,857

I/O Bytes: 4.7GB

Cell Offload Efficiency: 76%

Details

[Plan Statistics](#)[SQL Text](#)[Activity](#)[Metrics](#)

SQL Text

```
SELECT /*+ NO_RESULT_CACHE_MONITOR */  
    lo_orderdate,  
    sum(lo_revenue) as revenue  
FROM ssb.lineorder  
group by lo_orderdate  
order by 1
```

[← Back](#)

Real-time SQL Monitoring

SQL ID: 7dpq1q438cxz8 Execution ID: 67108864 Status: Executing

[Save Report](#)[Refresh](#)

Overview

General

SQL Text: [SELECT /*+ NO_RESUME */ HE_MONITOR */ lo_orderdate,...](#)

Execution Plan:

Execution Started: 09/07/2019, 09:17:17 AM

Last Refresh Time: 09/07/2019, 09:17:17 AM

Execution Id: 67108864

User Name: TK_LOW@XCSVU3

Fetch Calls: 0

Time & Wait

Duration: 1.1m

Database Time: 1.1m

PL/SQL & Java: 0s

Activity %: 100%

I/O

Buffer Gets: 621K

I/O Requests: 4,857

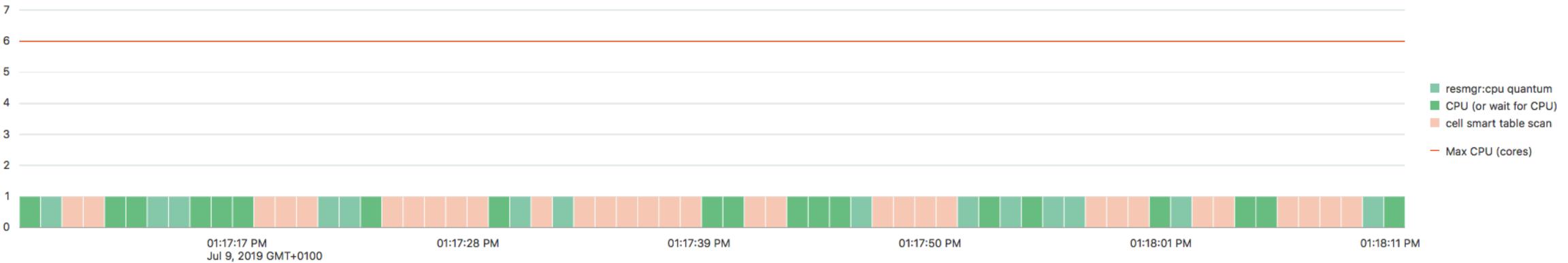
I/O Bytes: 4.7GB

Cell Offload Efficiency: 76%

Details

[Plan Statistics](#) [SQL Text](#) [Activity](#) [Metrics](#)

by Resource Type Max CPU (cores)



[← Back](#)

Real-time SQL Monitoring

SQL ID: 7dpq1q438cxz8 Execution ID: 67108864 Status: Executing

[Save Report](#)[Refresh](#)

Overview

General

SQL Text: [SELECT /*+ NO_RESULT_CACHE MONITOR */
lo_orderdate,...](#)

Execution Plan:

Execution Started: 09/07/2019, 13:17:08

Last Refresh Time: 09/07/2019, 13:18:10

Execution Id: 67108864

User Name: TK_LOW@XCSVU3MX9D9BVET_AD...

Fetch Calls: 0

Time & Wait

Duration: 1.1m

Database Time: 1.1m

PL/SQL & Java: 0s

Activity %: 100%

I/O

Buffer Gets: 621K

I/O Requests: 4,857

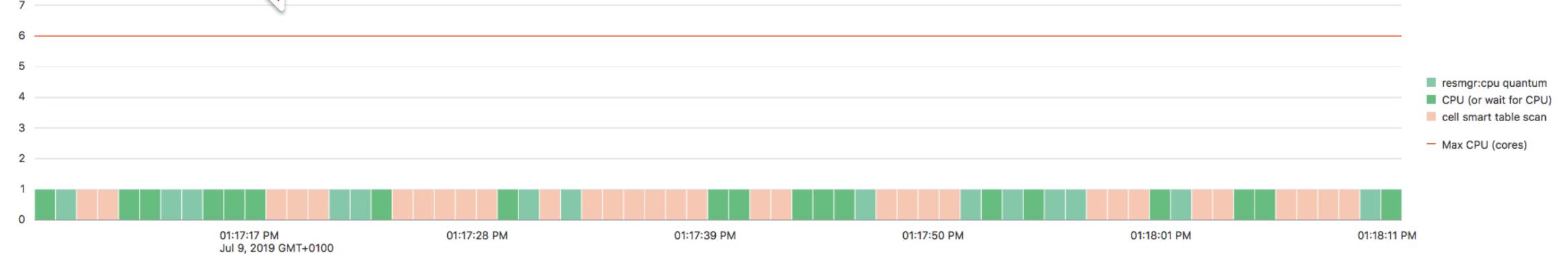
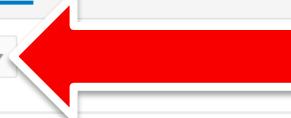
I/O Bytes: 4.7GB

Cell Offload Efficiency: 76%

Details

[Plan Statistics](#) [SQL Text](#) [Activity](#) [Metrics](#)

by Resource Type



[← Back](#)

Real-time SQL Monitoring

SQL ID: 7dpq1q438cxz8 Execution ID: 67108864 Status: Executing

[Save Report](#)[Refresh](#)

Overview

General

SQL Text: [SELECT /*+ NO_RESULT_CACHE MONITOR */
lo_orderdate,...](#)

Execution Plan:

Execution Started: 09/07/2019, 13:17:08

Last Refresh Time: 09/07/2019, 13:18:10

Execution Id: 67108864

User Name: TK_LOW@XCSVU3MX9D9BVET_AD...

Fetch Calls: 0

Time & Wait

Duration: 1.1m

Database Time: 1.1m

PL/SQL & Java: 0s

Activity %: 100%

I/O

Buffer Gets: 621K

I/O Requests: 4,857

I/O Bytes: 4.7GB

Cell Offload Efficiency: 76%

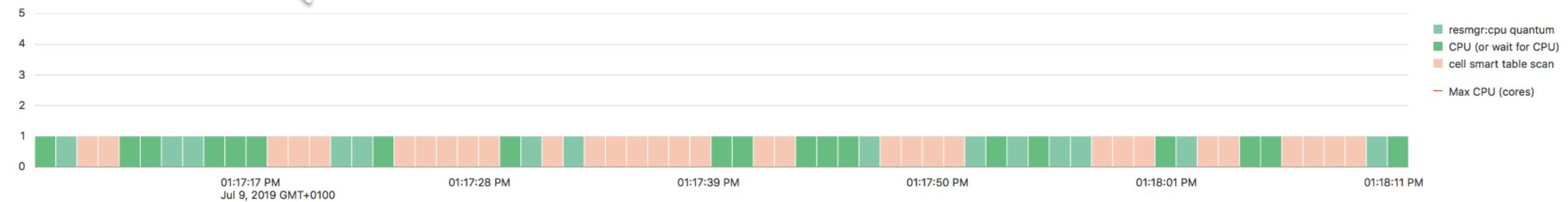
Details

[Plan Statistics](#) [SQL Text](#) [Activity](#) [Metrics](#)

by Resource Type Max PU (cores)

by Resource Type

by Plan Line



[Back](#)

Real-time SQL Monitoring

SQL ID: 7dpq1q438cxz8 Execution ID: 67108864 Status: Executing

[Save Report](#)[Refresh](#)

Overview

General

SQL Text: [SELECT /*+ NO_RESULT_CACHE MONITOR */
lo_orderdate,...](#)

Execution Plan:

Execution Started: 09/07/2019, 13:17:08

Last Refresh Time: 09/07/2019, 13:18:10

Execution Id: 67108864

User Name: TK_LOW@XCSVU3MX9D9BVET_AD...

Fetch Calls: 0

Time & Wait

Duration: 1.1m

Database Time: 1.1m

PL/SQL & Java: 0s

Activity %: 100%

I/O

Buffer Gets: 621K

I/O Requests: 4,857

I/O Bytes: 4.7GB

Cell Offload Efficiency: 76%

Details

[Plan Statistics](#) [SQL Text](#) [Activity](#) [Metrics](#)

by Plan Line Max CPU (cores)

7

6

5

4

3

2

1

0

01:17:17 PM
Jul 9, 2019 GMT+0100

01:17:28 PM

01:17:39 PM

01:17:50 PM

01:18:01 PM

01:18:11 PM

Line 1: SORT GROUP BY
Line 2: TABLE ACCESS STORAGE FULL
Max CPU (cores)

[Back](#)

Real-time SQL Monitoring

SQL ID: 7dpq1q438cxz8 Execution ID: 67108864 Status: Executing

[Save Report](#)[Refresh](#)

Overview

General

SQL Text: [SELECT /*+ NO_RESULT_CACHE MONITOR */
lo_orderdate,...](#)

Execution Plan:

Execution Started: 09/07/2019, 13:17:08

Last Refresh Time: 09/07/2019, 13:18:10

Execution Id: 67108864

User Name: TK_LOW@XCSVU3MX9D9BVE

Fetch Calls: 0

Time & Wait

Duration: 1.1m

Database Time: 1.1m

PL/SQL & Java: 0s

Activity %: 100%

I/O

Buffer Gets: 621K

I/O Requests: 4,857

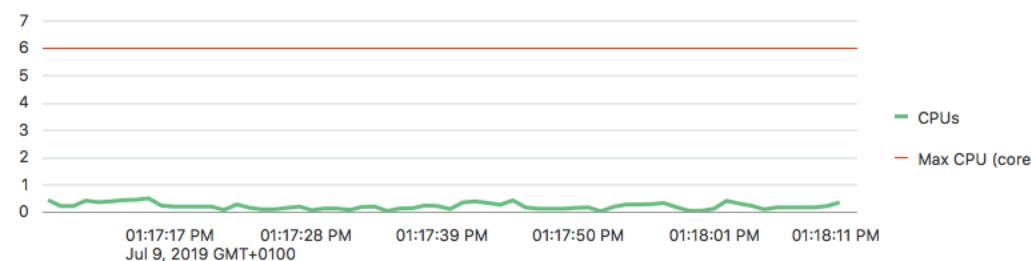
I/O Bytes: 4.7GB

Cell Offload Efficiency: 76%

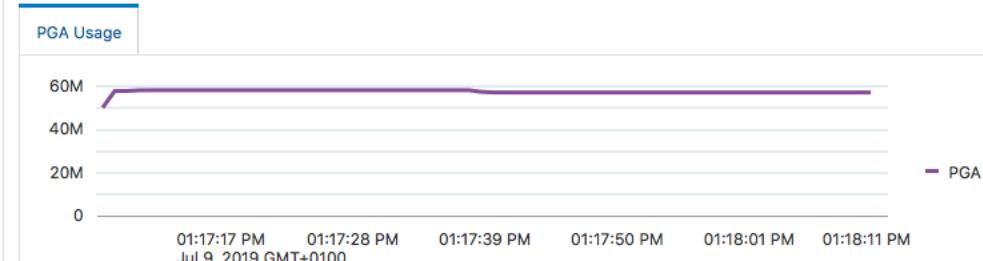
Details

[Plan Statistics](#)[SQL Text](#)[Activity](#)[Metrics](#)

CPU Used



Memory



I/O Throughput

I/O Requests

General

SQL Text: [SELECT /*+ NO_RESULT_CACHE MONITOR */ lo_orderdate,...](#)

Execution Plan:

Execution Started: 09/07/2019, 13:17:08

Last Refresh Time: 09/07/2019, 13:18:10

Execution Id: 67108864

User Name: TK_LOW@XCSVU3MX9D9BVET_AD...

Fetch Calls: 0

Time & Wait

Duration: 1.1m

Database Time: 1.1m

PL/SQL & Java: 0s

Activity %: 100%

I/O

Buffer Gets: 621K

I/O Requests: 4,857

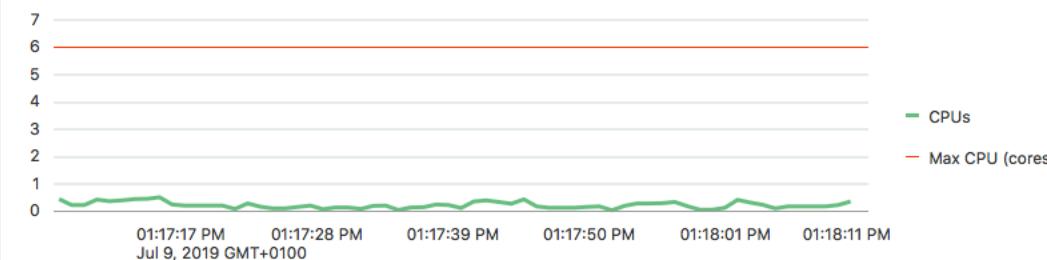
I/O Bytes: 4.7GB

Cell Offload Efficiency: 76%

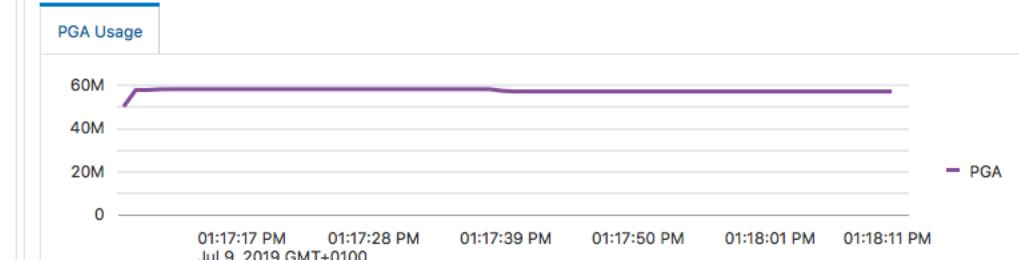
Details

[Plan Statistics](#) [SQL Text](#) [Activity](#) [Metrics](#)

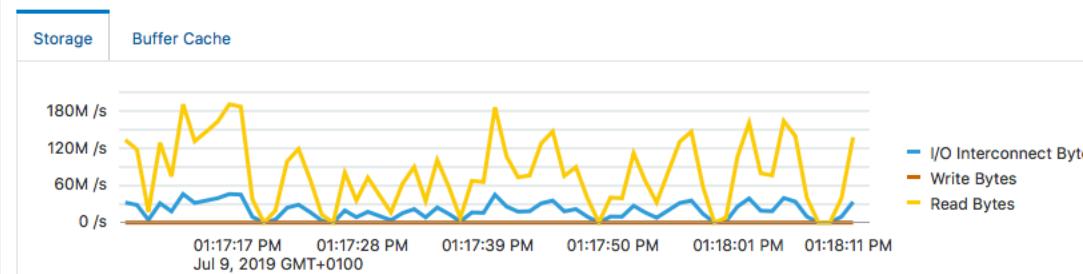
CPU Used



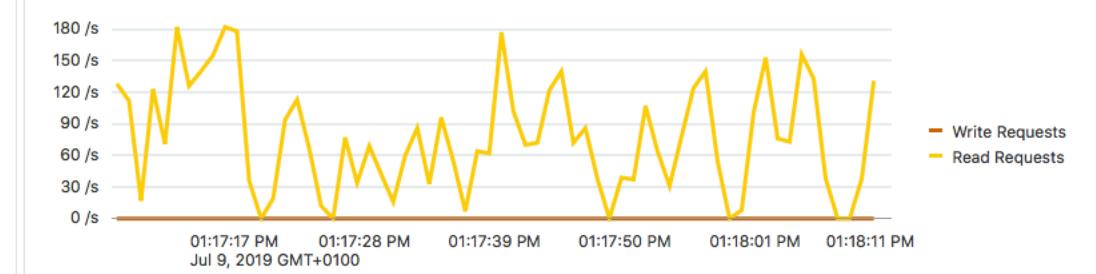
Memory



I/O Throughput



I/O Requests



General

SQL Text: `SELECT /*+ NO_RESULT_CACHE MONITOR */
 lo_orderdate,...`

Execution Plan:

Execution Started: 09/07/2019, 13:17:08

Last Refresh Time: 09/07/2019, 13:18:10

Execution Id: 67108864

User Name: TK_LOW@XCSVU3MX9D9BVET_AD...

Fetch Calls: 0

Time & Wait

Duration:  1.1m

Database Time:  1.1m

PL/SQL & Java: 0s

Activity %:  100%

I/O

Buffer Gets:  621K

I/O Requests:  4,857

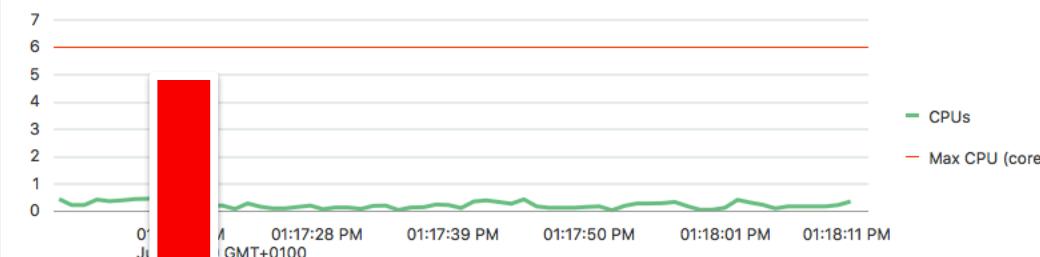
I/O Bytes:  4.7GB

Cell Offload Efficiency: 76%

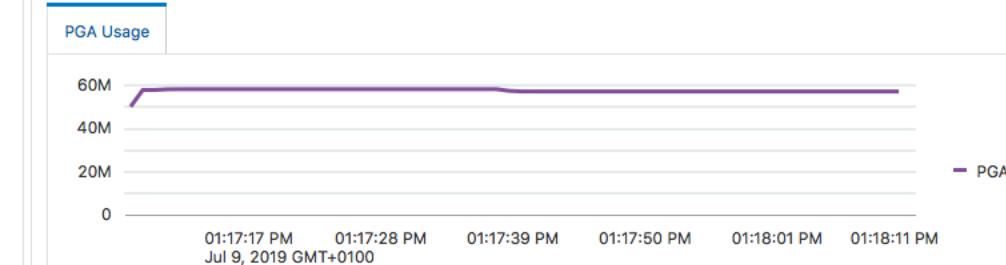
Details

Plan Statistics SQL Text Activity Metrics

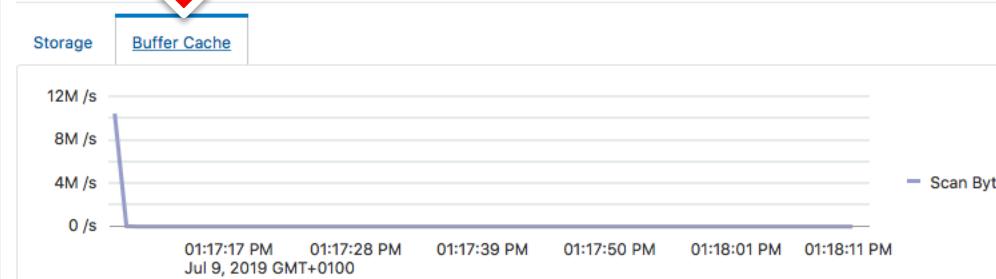
CPU Used



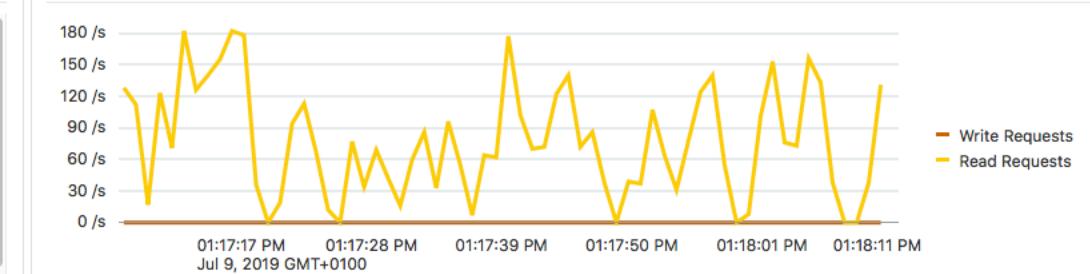
Memory



I/O Throughput



I/O Requests



[Back](#)

Real-time SQL Monitoring

SQL ID: 7dpq1q438cxz8 Execution ID: 67108864 Status: Executing

[Save Report](#)[Refresh](#)

Overview

General

SQL Text: [SELECT /*+ NO_RESULT_CACHE MONITOR */
lo_orderdate,...](#)

Execution Plan:

Execution Started: 09/07/2019, 13:17:08

Last Refresh Time: 09/07/2019, 13:18:10

Execution Id: 67108864

User Name: TK_LOW@XCSVU3MX9D9BVET_AD...

Fetch Calls: 0

Time & Wait

Duration: 1.1m

Database Time: 1.1m

PL/SQL & Java: 0s

Activity %: 100%

I/O

Buffer Gets: 621K

I/O Requests: 4,857

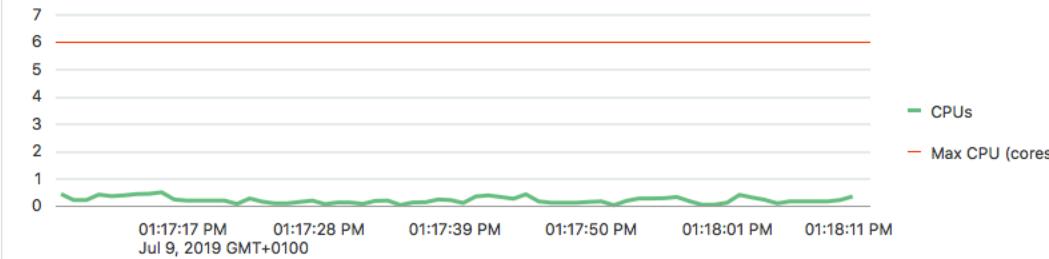
I/O Bytes: 4.7GB

Cell Offload Efficiency: 76%

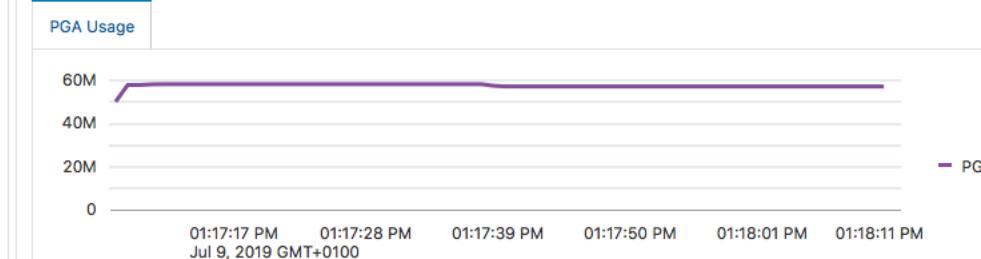
Details

[Plan Statistics](#) [SQL Text](#) [Activity](#) [Metrics](#)

CPU Used



Memory



I/O Throughput

I/O Requests

Viewing SQL Monitor Report

Use Browser to view HTML Web Page report generated from Performance Hub. This is easiest way to share performance information with other DBAs and technical users

Real-time SQL Monitoring

SQL ID 7dpq1q438cxz8 Execution ID 67108864 Status Executing

Overview

General

SQL Text `SELECT /*+ NO_RESULT_CACHE MONITOR */
 lo_orderdate,...`

Execution Plan

Execution Started 09/07/2019, 12:17:08

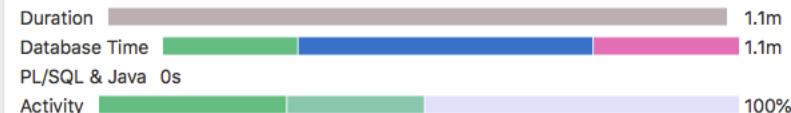
Last Refresh Time 09/07/2019, 12:18:10

Execution Id 67108864

User Name TK_LOW@XCSVU3MX9D9BVET_AD...

Fetch Calls 0

Time & Wait



I/O



Details

Plan Statistics SQL Text Activity Metrics

Plan Hash Value 4230308389

Plan Notes

	Operation	Object	Information	Est. Rows	Timeline	Executions	Rows	Mem	Temp	I/O Requests	Activity
0	SELECT STATEMENT					1					
1	SORT GROUP BY			7,665M		1		174KB			14%
2	TABLE ACCESS STORAGE FULL LINEORDER	LN		7,665M		1	13M	12.1MB		5,342	

Real-time SQL Monitoring

SQL ID 7dpq1q438cxz8 Execution ID 67108864 Status Executing

Overview

General

SQL Text `SELECT /*+ NO_RESULT_CACHE MONITOR */
 lo_orderdate,...`

Execution Plan

Execution Started 09/07/2019, 12:17:08

Last Refresh Time 09/07/2019, 12:18:10

Execution Id 67108864

User Name TK_LOW@XCSVU3MX9D9BVET_AD...

Fetch Calls 0

Time & Wait



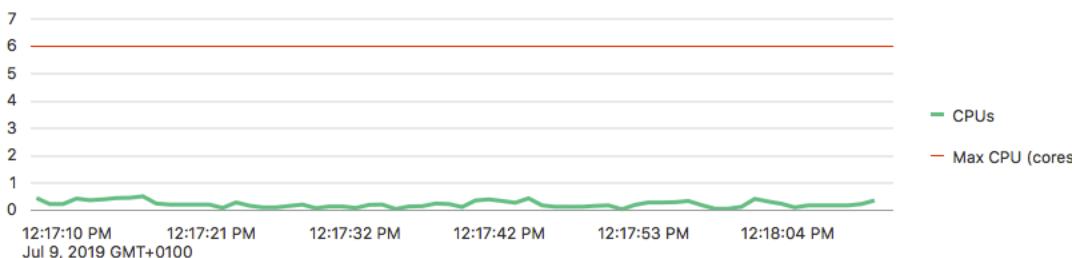
I/O



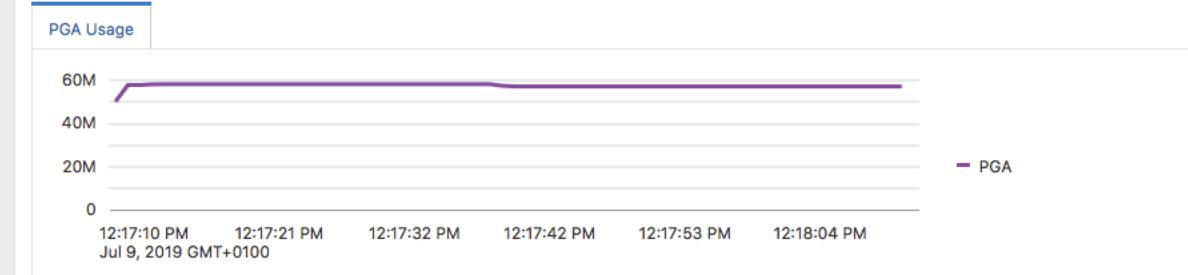
Details

[Plan Statistics](#) [SQL Text](#) [Activity](#) [Metrics](#)

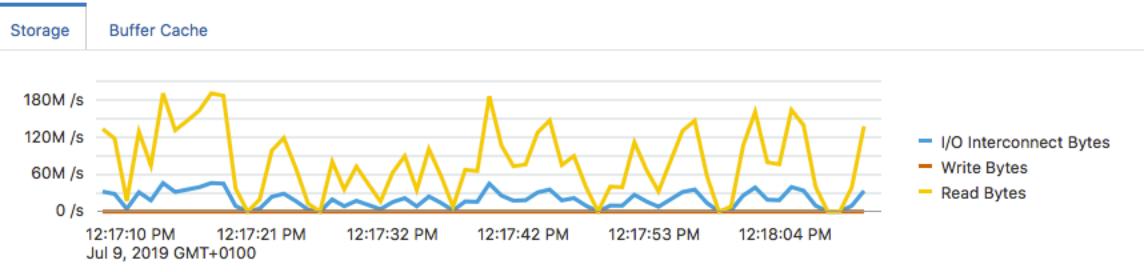
CPU Used



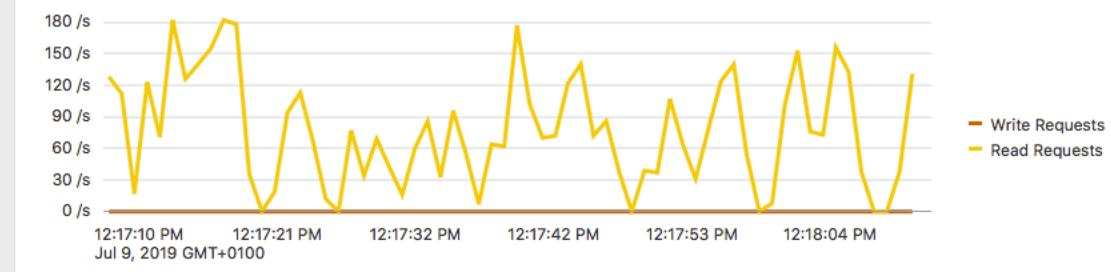
Memory



I/O Throughput



I/O Requests

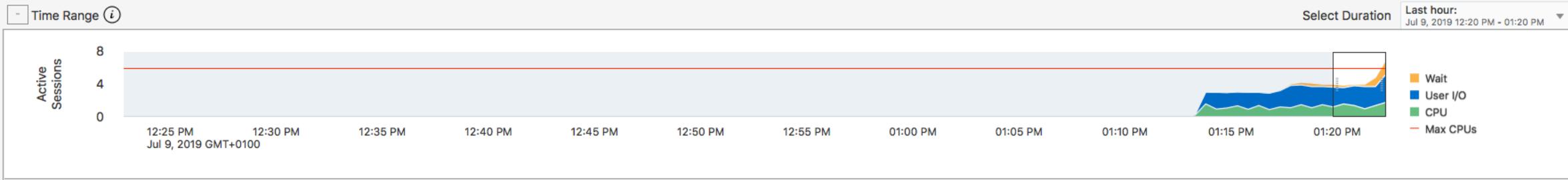


Back To....Using Performance Hub

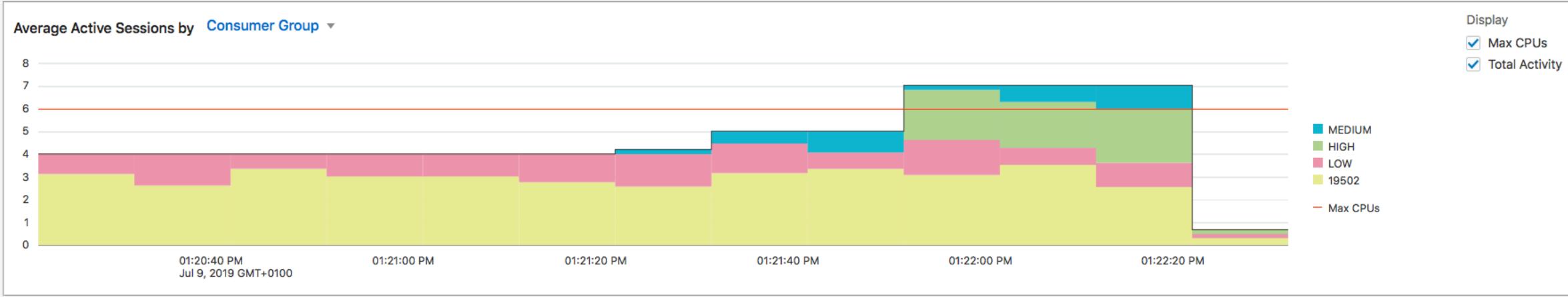
More graphs and metrics on a busier system...

[Refresh](#)

Performance Hub


[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options 
[SQL ID](#) [by Consumer Group](#)

SQL ID	Activity (Average Active Sessions)
--------	------------------------------------

90tvkj8dvhwr0

[User Session](#) [by Consumer Group](#)

User Session	Activity (Average Active Sessions)
--------------	------------------------------------

4:8379,13168

Autonomous

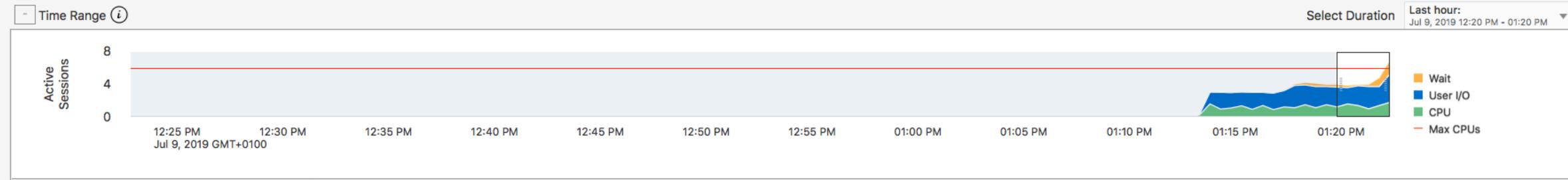
ADWDEMO

Close

A

Performance Hub

Refresh

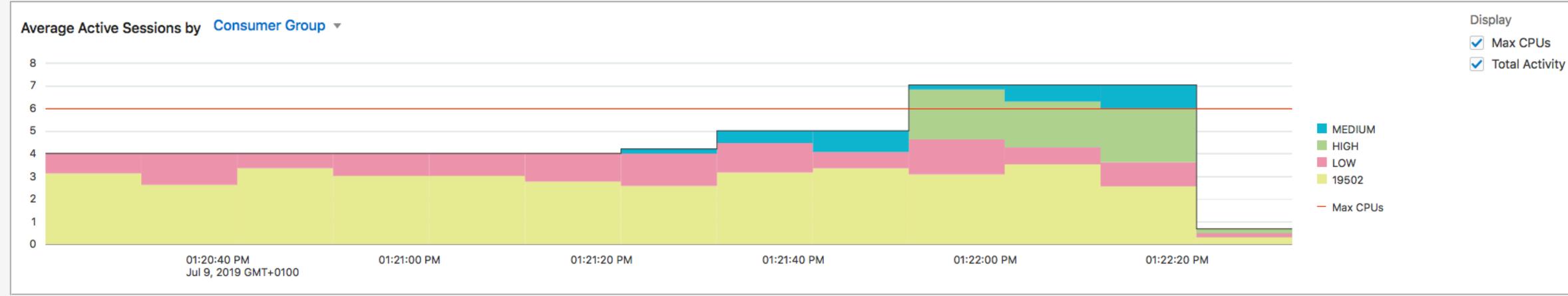


ASH Analytics SQL Monitoring



Applied Filters: None

View Options



Resource

Backups (3)

SQL ID ▾ by Consumer Group

SQL ID Activity (Average Active Sessions)

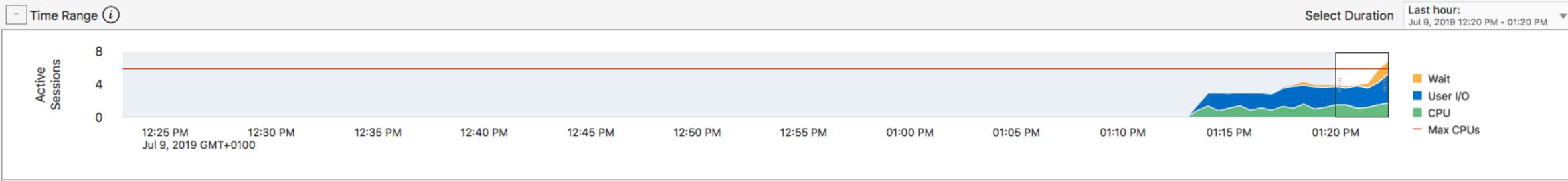
90tvkj8dvhwr0

User Session ▾ by Consumer Group

User Session Activity (Average Active Sessions)

4:8379,13168

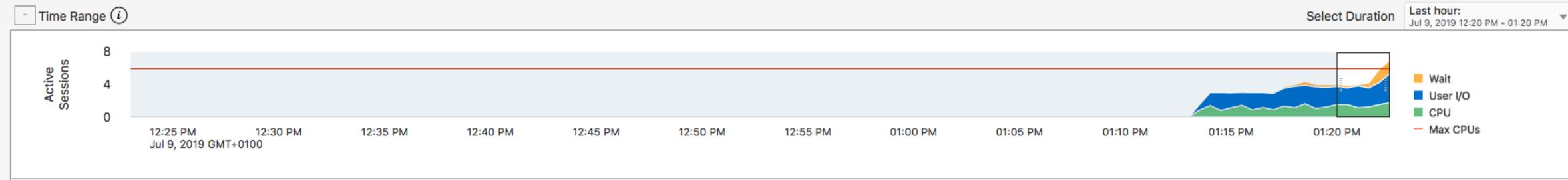
Performance Hub

[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)Top 100 by [Last Active Time](#)

Filter by Status, SQL ID or User Name

Kill Session									
Status	Duration	Inst ID	SQL ID	SQL Plan Hash	User Name	Parallel	Database Time	I/O Requests	SQL Text
⌚	1.10m	4	77nptnhb69hfc	434607624	TK_MED@XCSVU3MX9D9BVET_ADWDEMO		< 0.01s		SELECT /*+ NO_RESULT_CACHE MON...
⌚	43.00s	4	6bf4hzg4cqmw	434607624	TK_HIGH@XCSVU3MX9D9BVET_ADWDEMO	2	1.38m	11K	SELECT /*+ NO_RESULT_CACHE MON...
⌚	5.35m	4	7dpq1q438cxz8	4230308389	TK_LOW@XCSVU3MX9D9BVET_ADWDEMO	5.35m	24K		SELECT /*+ NO_RESULT_CACHE MON...

Performance Hub

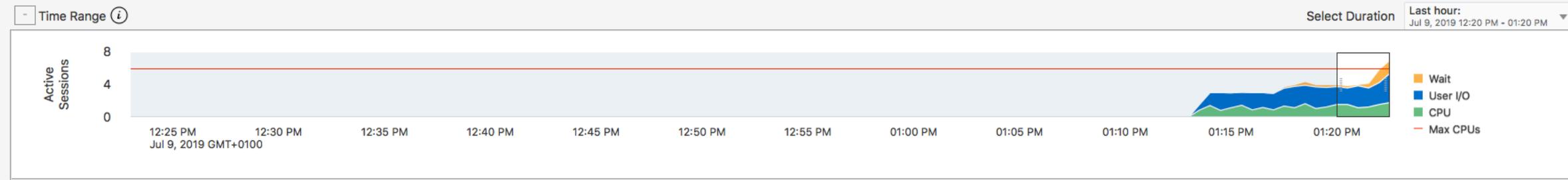
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)Top 100 by [Last Active Time](#)

Filter by Status, SQL ID or User Name

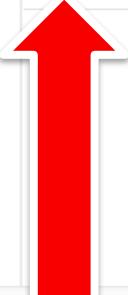
[Kill Session](#)

Status	Duration	Inst ID	SQL ID	SQL Plan Hash	User Name	Parallel	Database Time	I/O Requests	SQL Text
1.10m	1.10m	4	77nptnhb69hfc	434607624	TK_MED@XCSVU3MX9D9BVET_ADWDEMO		< 0.01s		SELECT /*+ NO_RESULT_CACHE MON...
43.00s	43.00s	4	6bf4hzg4cqmw	434607624	TK_HIGH@XCSVU3MX9D9BVET_ADWDEMO	2	1.38m	11K	SELECT /*+ NO_RESULT_CACHE MON...
5.35m	5.35m	4	7dpq1q438cxz8	4230308389	TK_LOW@XCSVU3MX9D9BVET_ADWDEMO	2	5.35m	24K	SELECT /*+ NO_RESULT_CACHE MON...

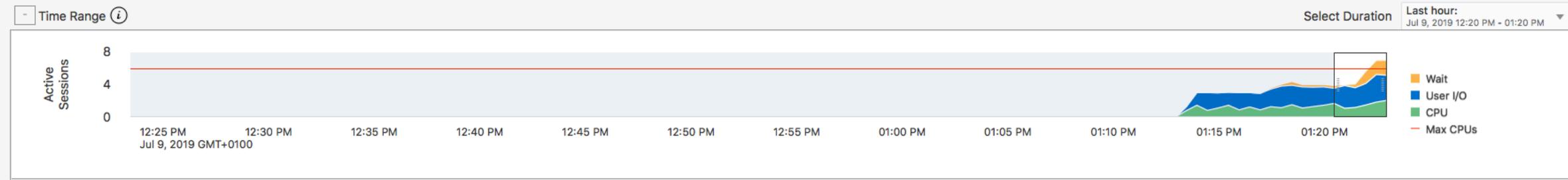
Performance Hub

[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)Top 100 by [Last Active Time](#)[Filter by Status, SQL ID or User Name](#)[Kill Session](#)

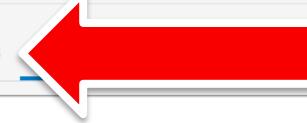
Status	Duration	Inst ID	SQL ID	SQL Plan Hash	User Name	Parallel	Database Time	I/O Requests	SQL Text
1.10m	1.10m	4	77nptnhb69hfc	434607624	TK_MED@XCSVU3MX9D9BVET_ADWDEMO		< 0.01s		SELECT /*+ NO_RESULT_CACHE MON...
43.00s	43.00s	4	6bf4hzg4cqmw	434607624	TK_HIGH@XCSVU3MX9D9BVET_ADWDEMO	2	1.38m	11K	SELECT /*+ NO_RESULT_CACHE MON...
5.35m	5.35m	4	7dpq1q438cxz8	4230308389	TK_LOW@XCSVU3MX9D9BVET_ADWDEMO	5.35m	24K		SELECT /*+ NO_RESULT_CACHE MON...



Performance Hub

[Refresh](#)

ASH Analytics



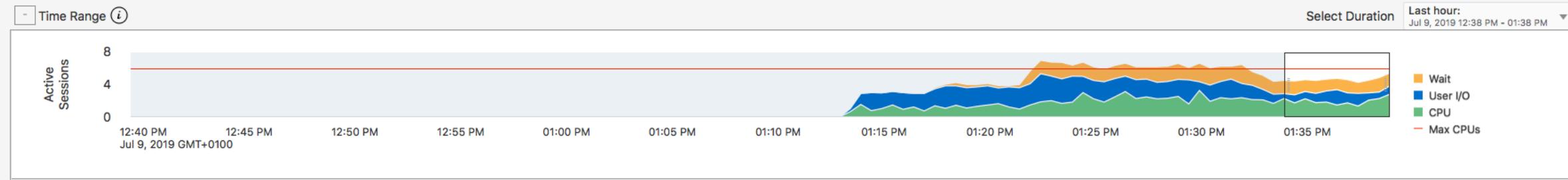
Top 100 by Last Active Time

Filter by Status, SQL ID or User Name

[Kill Session](#)

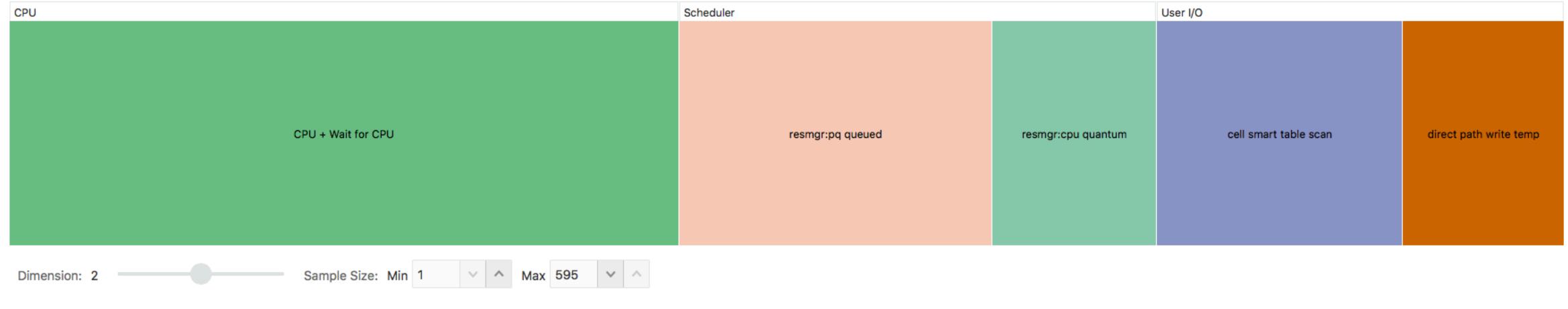
Status	Duration	Inst ID	SQL ID	SQL Plan Hash	User Name	Parallel	Database Time	I/O Requests	SQL Text
	1.10m	4	77nptnhb69hfc	434607624	TK_MED@XCSVU3MX9D9BVET_ADWDEMO		< 0.01s		SELECT /*+ NO_RESULT_CACHE MON...
	43.00s	4	6bf4hzg4cqmw	434607624	TK_HIGH@XCSVU3MX9D9BVET_ADWDEMO	2	1.38m	11K	SELECT /*+ NO_RESULT_CACHE MON...
	5.35m	4	7dpq1q438cxz8	4230308389	TK_LOW@XCSVU3MX9D9BVET_ADWDEMO	2	5.35m	24K	SELECT /*+ NO_RESULT_CACHE MON...

Performance Hub

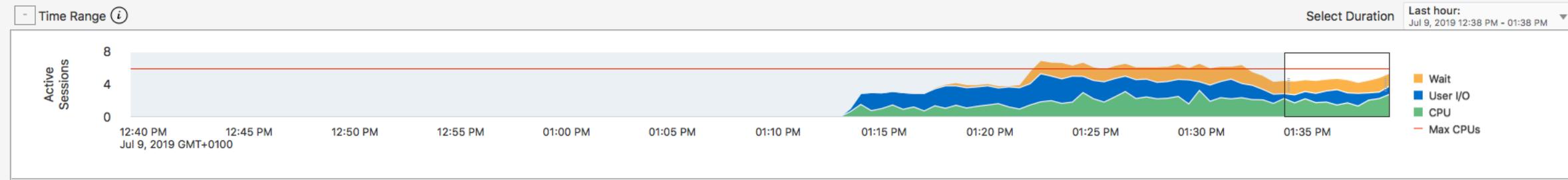
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options

Average Active Sessions by [Wait Class, Wait Event](#)Mode [Simple](#)

Performance Hub

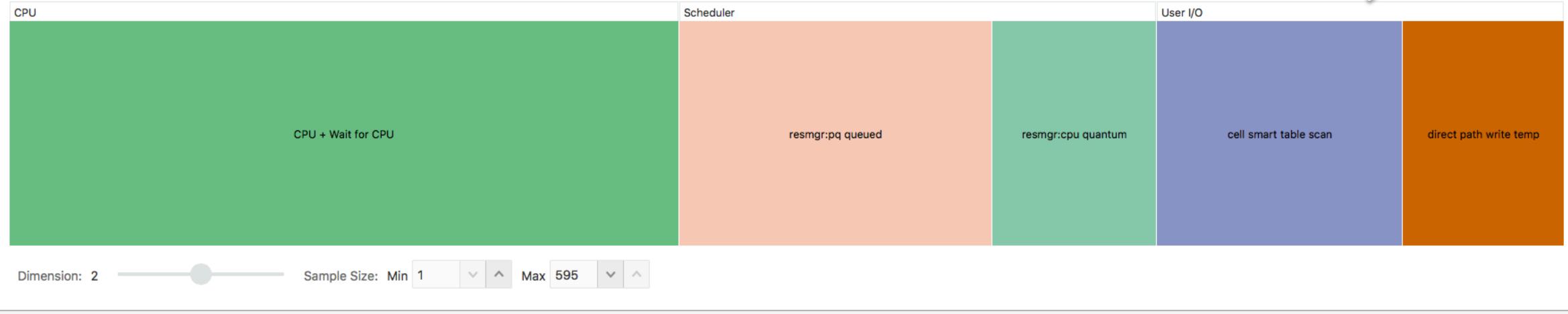
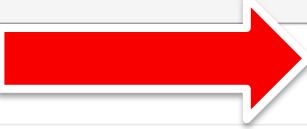
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

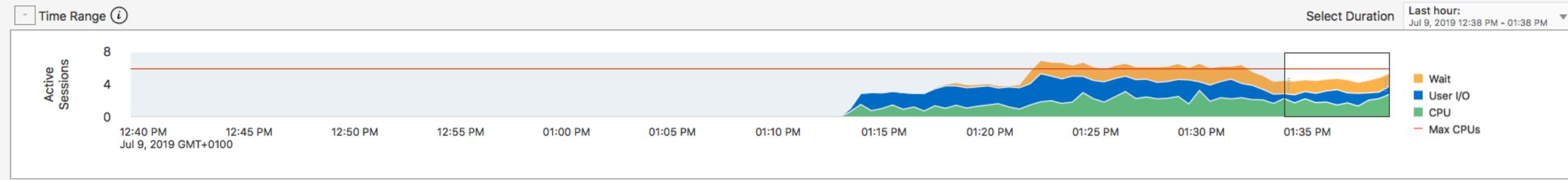
View Options

Average Active Sessions by Wait Class, Wait Event

Mode Simple



Performance Hub

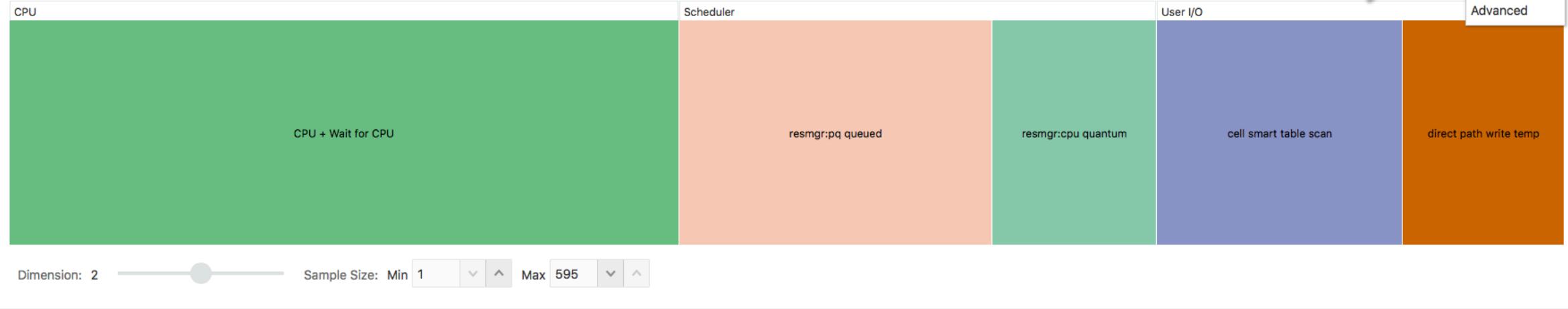
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

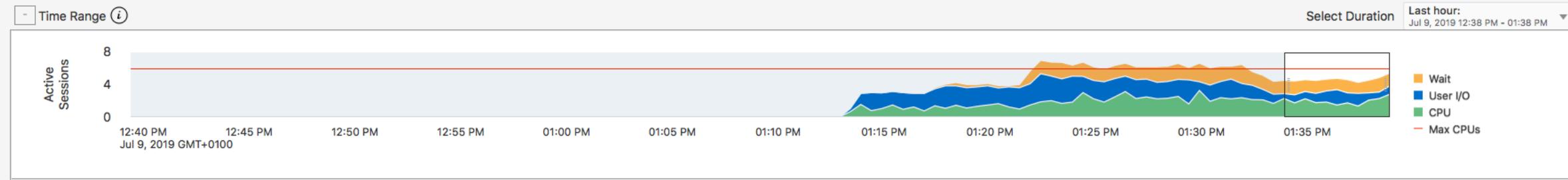
View Options

Mode Simple ▾
Simple
Advanced

Average Active Sessions by Wait Class, Wait Event

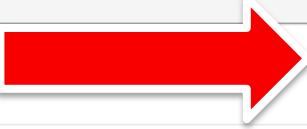
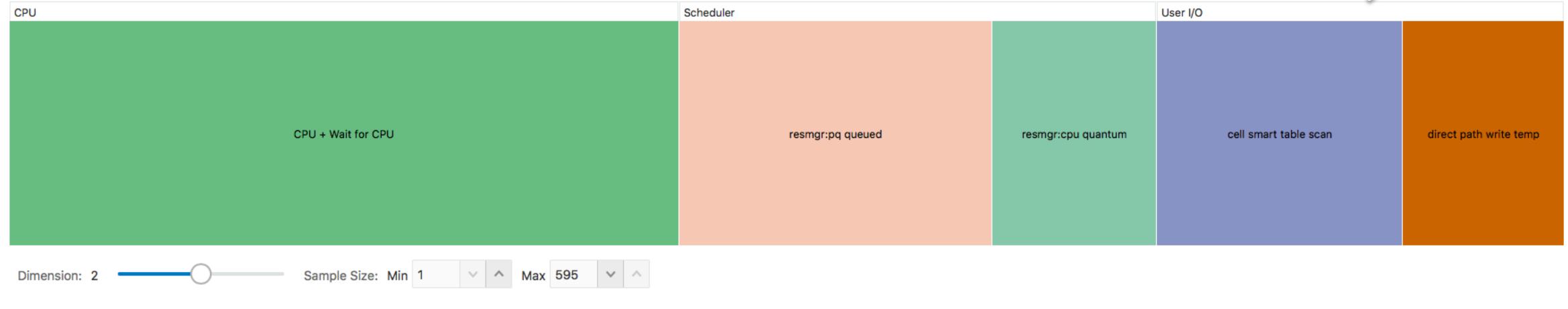


Performance Hub

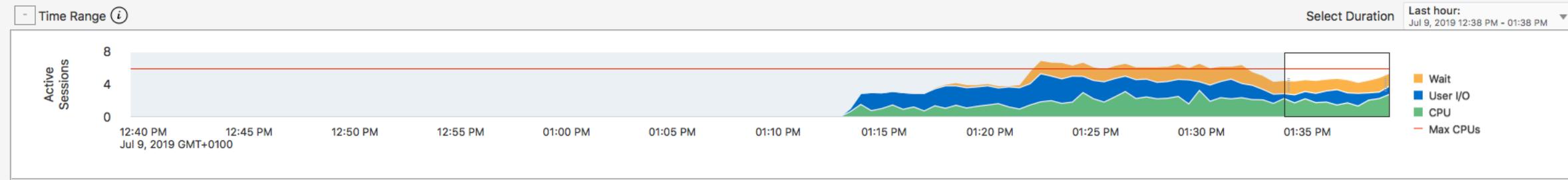
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options

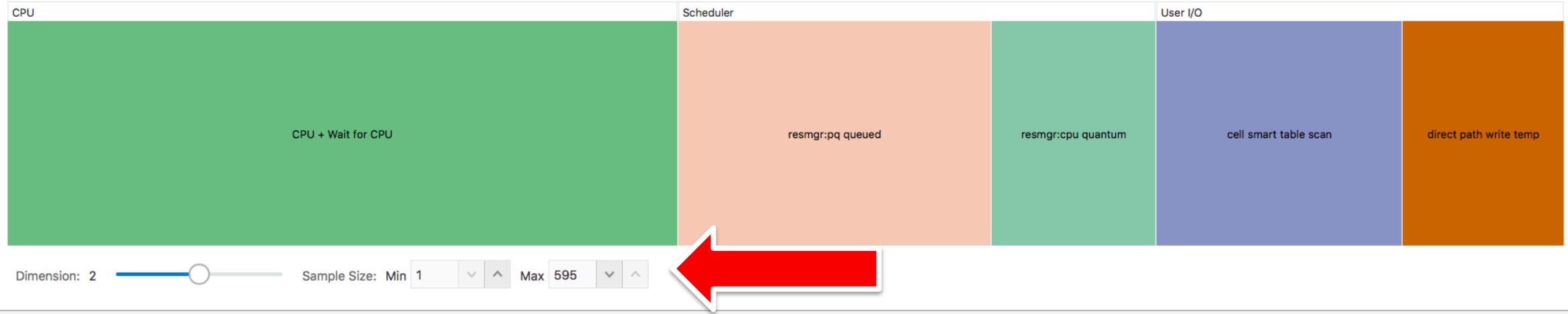
Average Active Sessions by [Wait Class](#) > [Wait Event](#)Mode [Advanced](#)

Performance Hub

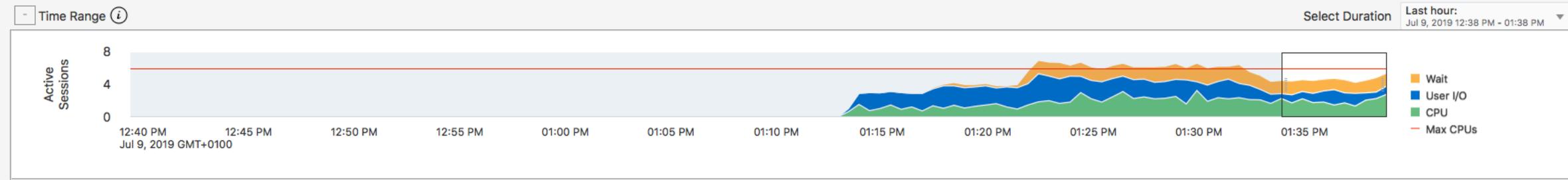
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options

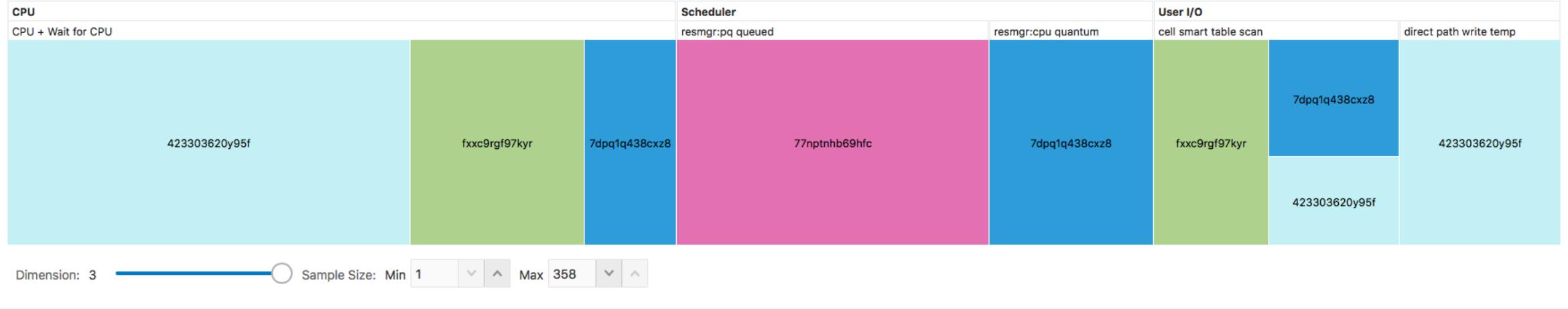
Average Active Sessions by [Wait Class](#) > [Wait Event](#)Mode [Advanced](#)

Performance Hub

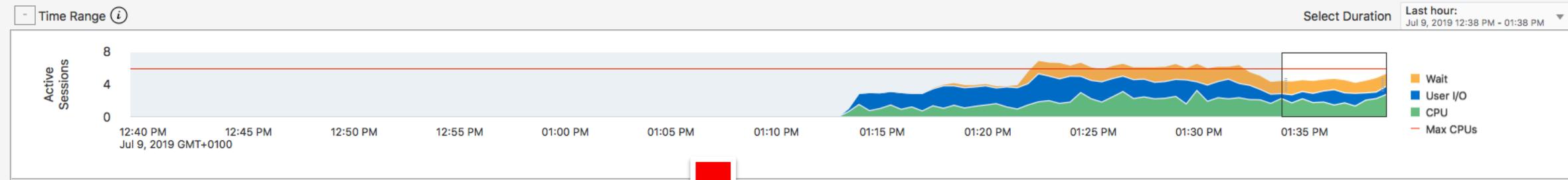
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options

Average Active Sessions by [Wait Class](#) > [Wait Event](#) > [SQL ID](#)Mode [Advanced](#)

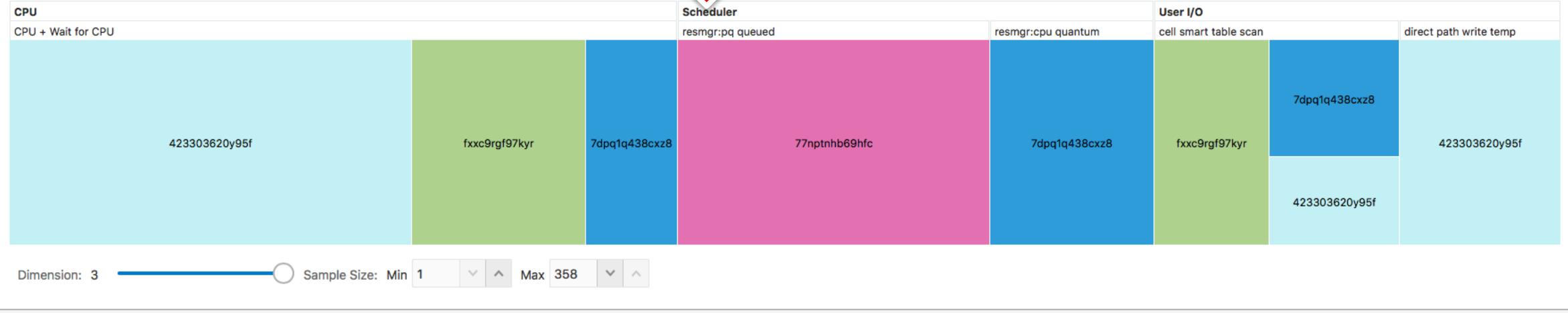
Performance Hub

[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

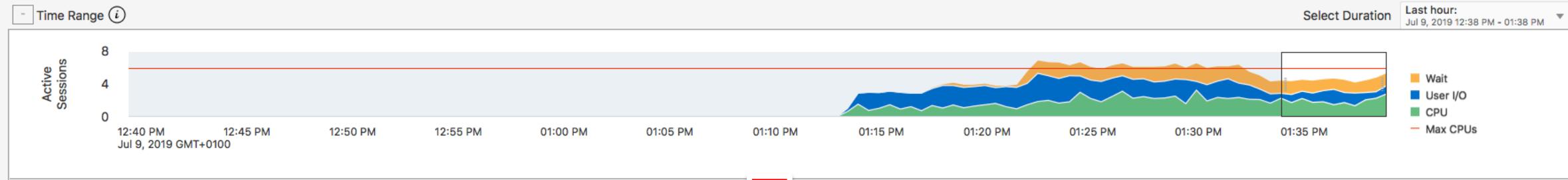
View Options

Average Active Sessions by Wait Class > Wait Event > SQL ID

Mode [Advanced](#)

Performance Hub

Refresh



ASH Analytics SQL Monitoring

View Options

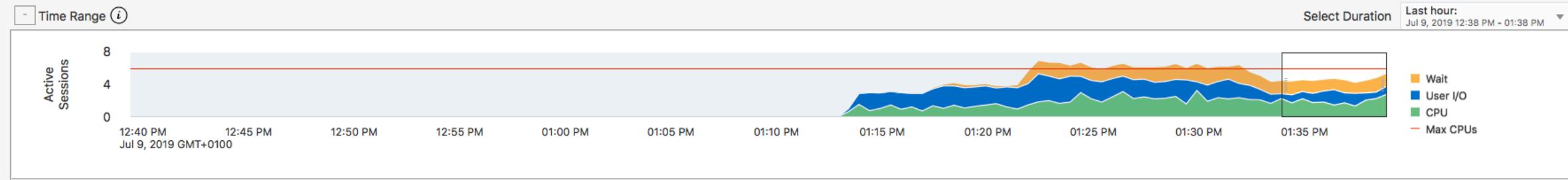
 Applied Filters: None

Average Active Sessions by Wait Class ▾ > Wait Event ▾ > SQL ID

Mode Advanced ▾

CPU	Scheduler	User I/O
CPU + Wait for CPU	resmgr:pq queued	cell smart table scan
423303620y95f	7dpq1q438cxz8	direct path write temp
fxxc9rgf97kyr	77nptnhb69hfc	7dpq1q438cxz8
7dpq1q438cxz8	7dpq1q438cxz8	fxxc9rgf97kyr
77nptnhb69hfc	423303620y95f	423303620y95f
423303620y95f	423303620y95f	

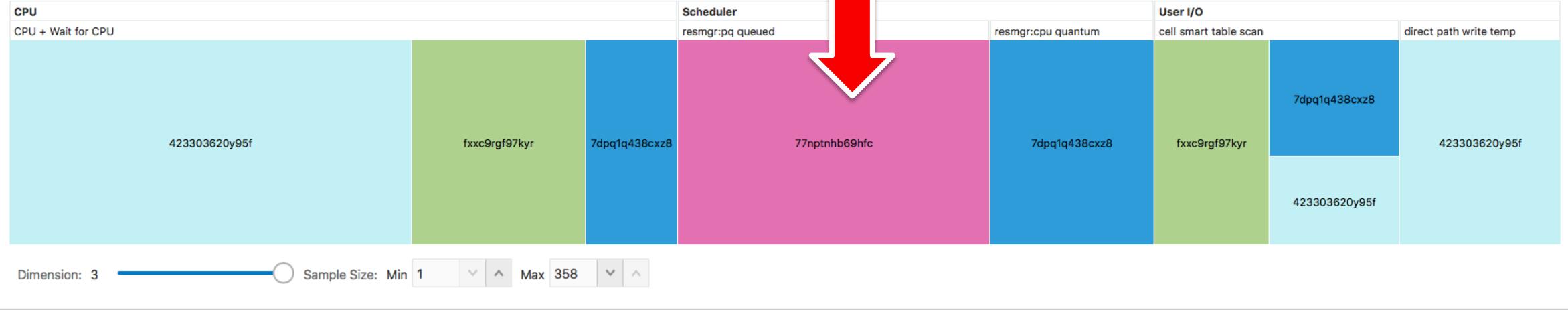
Performance Hub

[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

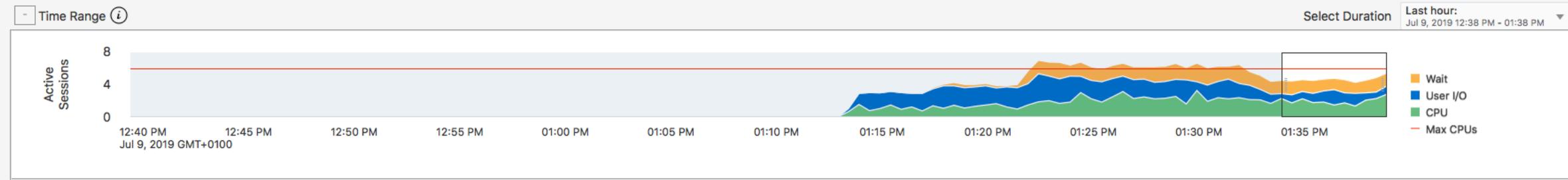
Applied Filters: None

View Options

Average Active Sessions by Wait Class > Wait Event > SQL ID

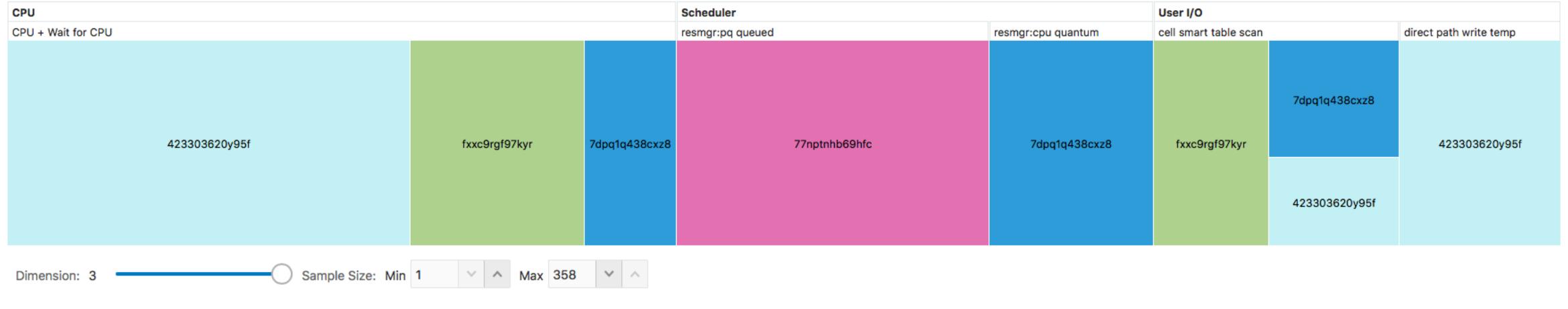
Mode [Advanced](#)

Performance Hub

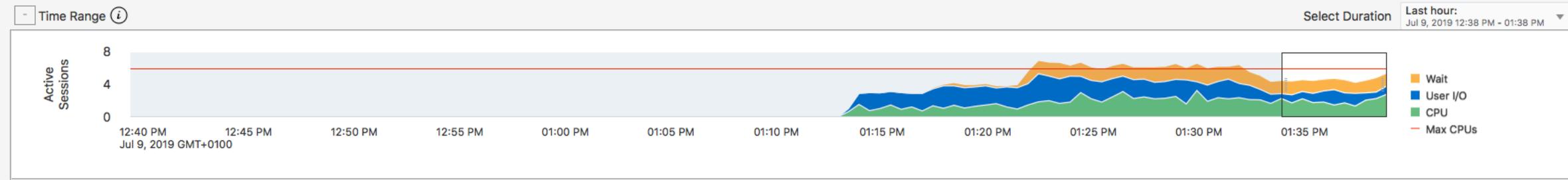
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options

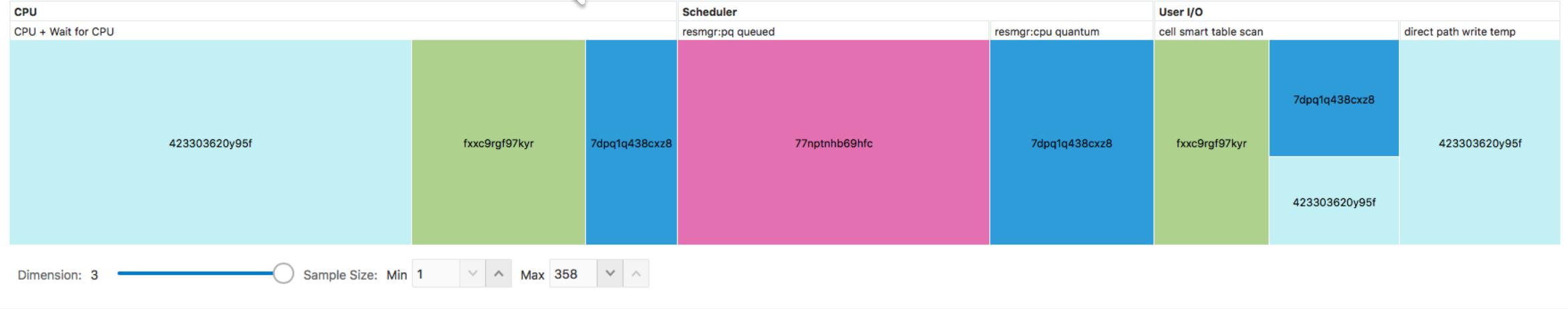
Average Active Sessions by [Wait Class](#) > [Wait Event](#) > [SQL ID](#)Mode [Advanced](#)

Performance Hub

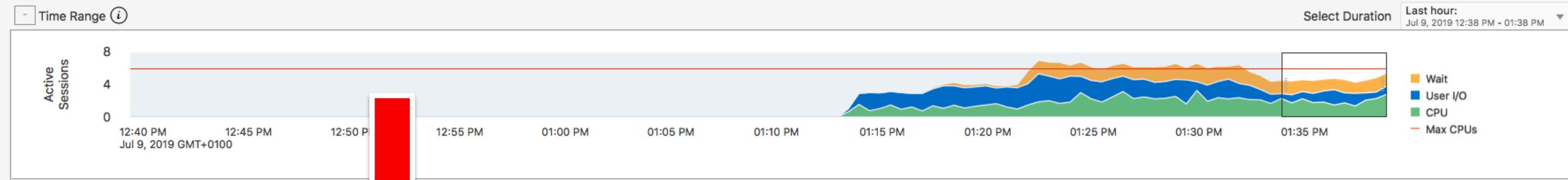
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options

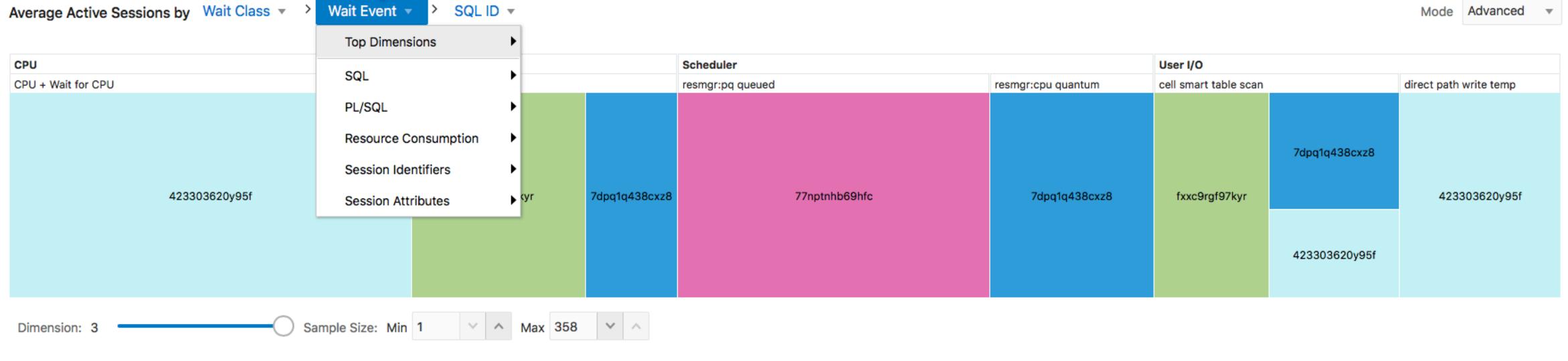
Average Active Sessions by Wait Class Wait Event SQL ID
Mode [Advanced](#)

Performance Hub

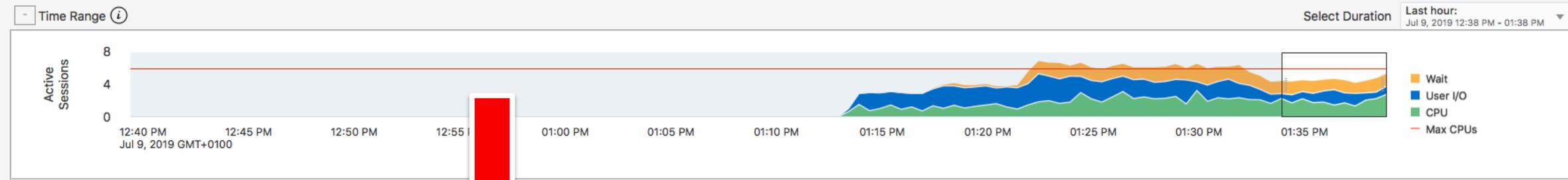
[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options

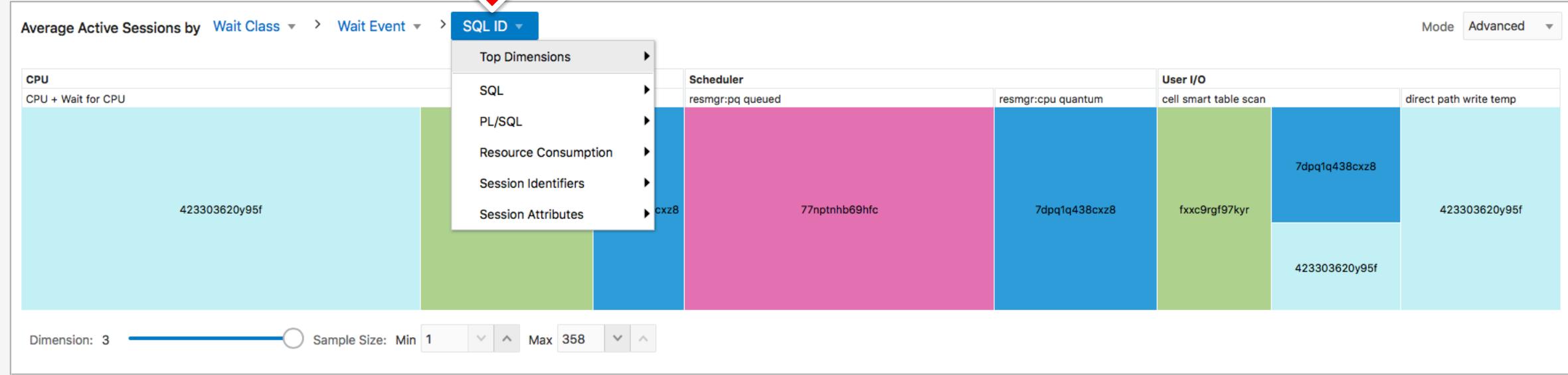


Performance Hub

[Refresh](#)[ASH Analytics](#) [SQL Monitoring](#)

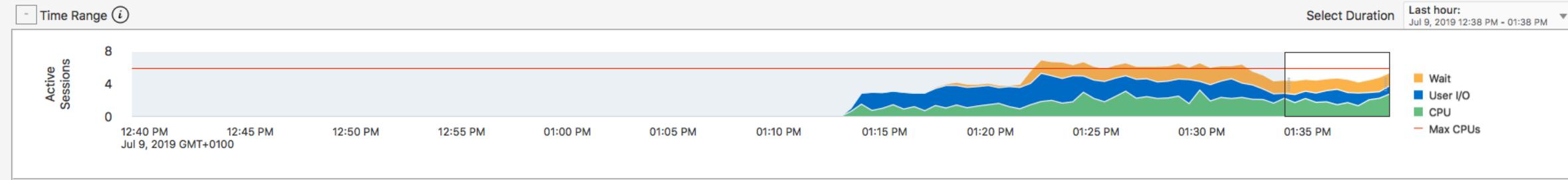
Applied Filters: None

View Options



Performance Hub

Refresh

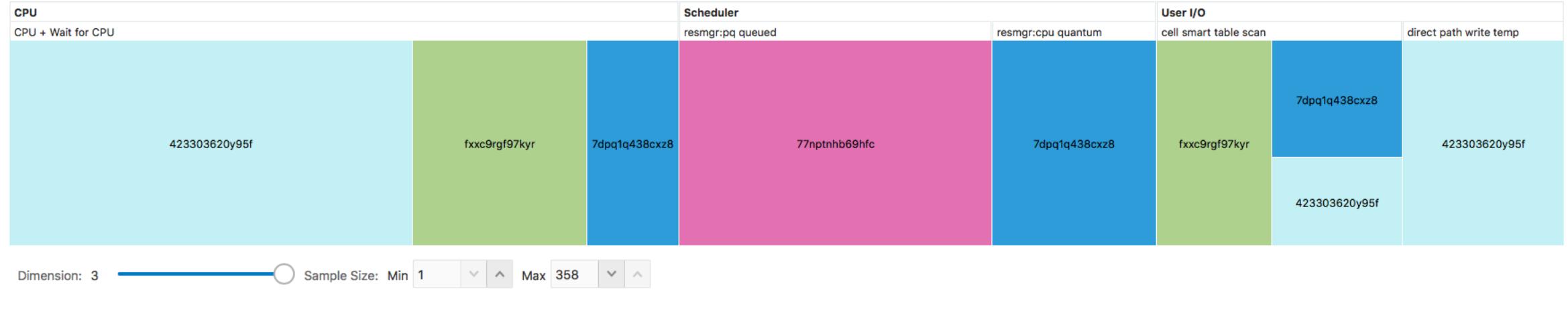
[ASH Analytics](#) [SQL Monitoring](#)

Applied Filters: None

View Options

Average Active Sessions by Wait Class > Wait Event > SQL ID

Mode Advanced



Autonomous Database » Autonomous Database Details

ADWDEMO

[DB Connection](#) [Performance Hub](#) [Service Console](#) [Scale Up/Down](#) [Stop](#) [Actions ▾](#)[Autonomous Database Information](#)[Tags](#)

General Information

Database Name: ADWDEMO**Workload Type:** Data Warehouse**Compartment:** adwc4pm (root)/ADW_Frankfurt**OCID:** ...nwjtoa [Show](#) [Copy](#)**Created:** Mon, 03 Jun 2019 15:18:08 GMT**CPU Core Count:** 1**Storage (TB):** 1**License Type:** Bring Your Own Licence**Database Version:** 18c**Auto Scaling:** Enabled **Lifecycle State:** Available

Infrastructure

Dedicated Infrastructure: No

Backup

Last Automatic Backup: Mon, 08 Jul 2019 13:07:26 GMT

Resources

Backups

Backups are automatically created daily.

[Create Manual Backup](#)

Name	State	Type	Started	Ended	⋮
Jul 08, 2019 13:07:26 PM UTC	Active	Incremental, initiated by Auto Backup	Mon, 08 Jul 2019 12:37:49 GMT	Mon, 08 Jul 2019 13:07:26 GMT	⋮
Jul 04, 2019 23:47:03 PM UTC	Active	Incremental, initiated by Auto Backup	Thu, 04 Jul 2019 23:46:54 GMT	Thu, 04 Jul 2019 23:47:03 GMT	⋮

Summary

Summary

- ✓ What is “Performance Hub”
- ✓ Target audiences for ADB monitoring tools
- ✓ Click-through demo

If you have any questions please post them on einstein.oraclecorp.com



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