

A.I.D.E.

Team A.I.D.E

Llama Hackathon:
Austin

Tech Stack

Llama 3.2
1B | 3B



Llama 2



groq



Ujwal Kandi

McCombs | UT Austin

Data Programmer | DevOps

With what worked

Tue 9/29/2015 10:54 AM

AWS Notifications <no-reply@sns.amazonaws.com>

AWS Elastic Beanstalk Notification - Environment health has transitioned from Ok to Severe.

Timestamp: Tue Sep 29 17:54:11 UTC 2015

Message: Environment health has transitioned from Ok to Severe. ELB health is failing or not available for all instances. None of the instances are sending data.

DAG Run test_ui_grid 2022-06-06, 20:37:57 CEST / task_2

Task Instance Details Rendered Template Log XCom List Instances, all runs Filter Upstream

Details Logs (by attempts)

Full Logs Download See More

```
172ccbf4f98
*** Reading local file: /root/airflow/logs/dag_id=test_ui_grid/run_id=manual_2022-06-07T18:37:57.325148+00:00/ [2022-06-07 18:38:00,020] [taskinstance.py:1132] INFO - Dependencies all met for <TaskInstance: test_ui_grid.se [2022-06-07 18:38:00,025] [taskinstance.py:1132] INFO - Dependencies all met for <TaskInstance: test_ui_grid.se [2022-06-07 18:38:00,025] [taskinstance.py:1329] INFO - [2022-06-07 18:38:00,025] [taskinstance.py:1330] INFO - Starting attempt 1 of 1 [2022-06-07 18:38:00,025] [taskinstance.py:1331] INFO - [2022-06-07 18:38:00,040] [taskinstance.py:1356] INFO - Executing <Task(BashOperator): section_1.task_2> on 202 [2022-06-07 18:38:00,043] [standard_task_runner.py:52] INFO - Started process 5434 to run task [2022-06-07 18:38:00,044] [standard_task_runner.py:80] INFO - Running: [****, 'tasks', 'run', 'test_ui_grid', [2022-06-07 18:38:00,045] [standard_task_runner.py:81] INFO - Job 1707: Subtask section_1.task_2 [2022-06-07 18:38:00,045] [dagbag.py:507] INFO - Filling up the DagBag from /files/dags/test_ui_grid.py [2022-06-07 18:38:00,086] [task_command.py:377] INFO - Running <TaskInstance: test_ui_grid.section_1.task_2 man [2022-06-07 18:38:00,129] [taskinstance.py:1548] INFO - Exporting the following env vars: AIRFLOW_CTX_DAG_OWNER=*** AIRFLOW_CTX_DAG_ID=test_ui_grid AIRFLOW_CTX_TASK_ID=section_1.task_2 AIRFLOW_CTX_EXECUTION_DATE=2022-06-07T18:37:57.325148+00:00 AIRFLOW_CTX_TRY_NUMBER=1 AIRFLOW_CTX_DAG_RUN_ID=manual_2022-06-07T18:37:57.325148+00:00
```

CloudWatch Dashboards Alarms ALARM INSUFFICIENT OK Billing Events Rules Event Buses Logs Insights Metrics Alpine Settings Favorites Add a dashboard

CloudWatch Log Groups appmesh-workshop-crystal-envoy fargate/envoy/1a67aa0f-b826-44c3-b8e6-25aa5522f463

Filter events Time (UTC +00:00) Message

2019-10-13 22:28:30 [2019-10-13T22:28:23.253Z] "GET /health HTTP/1.1" 200 - 0 8 0 0 "10.0.1.77" "Envoy/HC" "81e391b-b433-92cd-a414-5d97ecf2ab7" "cds_egress_appmesh" 22:28:40 [2019-10-13T22:28:30.138Z] "GET /health HTTP/1.1" 200 - 0 8 0 0 "-" "ELB-HealthChecker/2.0" "75de9638-dbed-954d-83ef-9031c425d07a" "10.0.101.73:31 22:28:40 [2019-10-13T22:28:30.146Z] "GET /health HTTP/1.1" 200 - 0 8 0 0 "-" "ELB-HealthChecker/2.0" "ed92e663-d1fc-9bb0-ab77-916355c5cb47" "10.0.101.73:31 22:28:40 [2019-10-13T22:28:30.155Z] "GET /health HTTP/1.1" 200 - 0 8 0 0 "-" "ELB-HealthChecker/2.0" "c7e3e952-5acd-93e9-a9fe-4826889ca484" "10.0.101.73:31 22:28:40 [2019-10-13T22:28:32.423Z] "GET /crystal/HTTP/1.1" 200 - 0 8 3 0 "10.0.2.225" "Ruby" "726ca6fa-d5c1-9097-a877-38e98569fd" "crystal.appmeshworksh 22:28:40 [2019-10-13T22:28:33.942Z] "GET /crystal/HTTP/1.1" 200 - 0 8 3 0 "10.0.2.225" "Ruby" "6e74d60a-150a-9172-93e9-1cf9d950950" "crystal.appmeshworksh 22:28:40 [2019-10-13T22:28:37.789Z] "GET /crystal/HTTP/1.1" 200 - 0 8 3 0 "10.0.2.225" "Ruby" "cfa059b-d5d4-9ed3-e853-469b0fe6760" "crystal.appmeshworksh 22:28:50 [2019-10-13T22:28:40.149Z] "GET /health HTTP/1.1" 200 - 0 28 0 0 "-" "ELB-HealthChecker/2.0" "50567a87-8e57-968c-a4b1-0012b616458" "10.0.101.73:31 22:28:50 [2019-10-13T22:28:40.155Z] "GET /health HTTP/1.1" 200 - 0 28 0 0 "-" "ELB-HealthChecker/2.0" "11618985-c6b8-9cce-a87a-ca1108e185c1" "10.0.101.73:31 22:28:50 [2019-10-13T22:28:40.166Z] "GET /health HTTP/1.1" 200 - 0 28 0 0 "-" "ELB-HealthChecker/2.0" "d464501-3fb5-9c48-99ed-7b9b05301024" "10.0.101.73:31 22:28:50 [2019-10-13T22:28:41.212Z] "GET /health HTTP/1.1" 200 - 0 8 17 "10.0.2.225" "Envoy/HC" "7d621faa-bb40-9d33-9641-fe2aab58da" "cds_egress_app 22:28:50 [2019-10-13T22:28:49.942Z] "GET /crystal/HTTP/1.1" 200 - 0 8 3 0 "10.0.2.225" "Ruby" "b9de6571-b5ba-9833-9fe-22e2fcebe34" "crystal.appmeshworksh 22:29:00 [2019-10-13T22:28:50.159Z] "GET /health HTTP/1.1" 200 - 0 28 0 0 "-" "ELB-HealthChecker/2.0" "c2ee792d-495e-9e2a-90de-c1d32a0588d" "10.0.101.73:31 22:29:00 [2019-10-13T22:28:50.165Z] "GET /health HTTP/1.1" 200 - 0 28 0 0 "-" "ELB-HealthChecker/2.0" "5c1b0052-4f6a-9a64-b9de-8f7ac1577f7e" "10.0.101.73:30 22:29:00 [2019-10-13T22:28:50.177Z] "GET /health HTTP/1.1" 200 - 0 28 0 0 "-" "ELB-HealthChecker/2.0" "daff650e-28af-903c-a54a-682270bd107c" "10.0.101.73:30 22:29:00 [2019-10-13T22:28:52.321Z] "GET /crystal/HTTP/1.1" 200 - 0 8 3 0 "10.0.0.196" "Ruby" "8f6b6371-8d41-9113-a933-9fe45e4b514" "crystal.appmeshworksh 22:29:00 [2019-10-13T22:28:56.981Z] "GET /crystal/HTTP/1.1" 200 - 0 8 3 0 "10.0.0.196" "Ruby" "7c1ee8b1-32de-956f-8672-72968ff33957" "crystal.appmeshworksh 22:29:00 [2019-10-13T22:29:00.170Z] "GET /crystal/HTTP/1.1" 200 - 0 28 0 0 "-" "ELB-HealthChecker/2.0" "c609c500-d302-914e-b52d-d61c6f4420d3" "10.0.101.73:31 22:29:10 [2019-10-13T22:29:00.176Z] "GET /health HTTP/1.1" 200 - 0 28 0 0 "-" "ELB-HealthChecker/2.0" "f57248c2-e33-9cf6-bbe7-71fce272e08" "10.0.101.73:30 22:29:10 [2019-10-13T22:29:00.187Z] "GET /health HTTP/1.1" 200 - 0 28 0 0 "-" "ELB-HealthChecker/2.0" "05414868-29c3-9d7b-a830-076872d015d2" "10.0.101.73:31 22:29:10 [2019-10-13T22:29:02.322Z] "GET /health HTTP/1.1" 200 - 0 8 0 0 "10.0.1.196" "Envoy/HC" "9458b6a-7c61-9883-b45e-06728c75920c" "cds_egress_app 22:29:10 [2019-10-13T22:29:06.524Z] "GET /crystal/HTTP/1.1" 200 - 0 8 3 0 "10.0.0.196" "Ruby" "64eb7200-5cb2-90c4-bf85-765f4c4e9895" "crystal.appmeshworksh 22:29:10 [2019-10-13T22:29:08.072Z] "GET /crystal/HTTP/1.1" 200 - 0 8 3 0 "10.0.1.77" "Ruby" "c3913dbb-e802-9f4b-bb9-e38a82f86e59" "crystal.appmeshworksh

Number of request per IP Address

#	IP Address	numberOfRequest
1	18.221.111.111	2791
2	152.32.111.111	2126
3	104.63.111.111	433
4	61.68.111.111	314
5	82.18.111.111	279
6	177.195.111.111	272
7	41.40.111.111	271
8	146.70.111.111	270
9	149.109.111.111	266

```
[root@blackmagic-db ~]# dhclient started with pid 14180
Apr 5 12:51:58 blackmagic-db dhclient[14180]: DHCPDISCOVER on enp0s3 to 255.255.255.255 port 67 interval 7 (xid=0x4109f73c)
Apr 5 12:51:59 blackmagic-db avahi-daemon[2815]: Registering new address record for fe80::a0:27ff:fe13:2f34
Apr 5 12:52:05 blackmagic-db dhclient[14180]: DHCPDISCOVER on enp0s3 to 255.255.255.255 port 67 interval 7 (xid=0x4109f73c)
Apr 5 12:52:17 blackmagic-db dhclient[14180]: DHCPDISCOVER on enp0s3 to 255.255.255.255 port 67 interval 7 (xid=0x4109f73c)
Apr 5 12:52:29 blackmagic-db dhclient[14180]: DHCPDISCOVER on enp0s3 to 255.255.255.255 port 67 interval 15 (xid=0x4109f73c)
```
[root@blackmagic-db ~]# journalctl -f -u httpd
-- Logs begin at Tue 2022-04-05 06:08:52 EDT. --
Apr 05 10:29:48 blackmagic-db httpd[10913]: AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using fe80::a0:27ff:fe13:2f34. Set the 'ServerName' directive globally to suppress this message
Apr 05 10:29:48 blackmagic-db systemd[1]: Started The Apache HTTP Server.
Apr 05 10:34:09 blackmagic-db systemd[1]: Reloading The Apache HTTP Server.
Apr 05 10:34:09 blackmagic-db httpd[11042]: AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using fe80::a0:27ff:fe0:6952. Set the 'ServerName' directive globally to suppress this message
Apr 05 10:34:09 blackmagic-db systemd[1]: Reloaded The Apache HTTP Server.
Apr 05 12:47:19 blackmagic-db systemd[1]: Stopping The Apache HTTP Server...
Apr 05 12:47:20 blackmagic-db systemd[1]: Started The Apache HTTP Server...
Apr 05 12:47:20 blackmagic-db httpd[14075]: AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using fe80::a0:27ff:fe0:6952. Set the 'ServerName' directive globally to suppress this message
Apr 05 12:47:20 blackmagic-db systemd[1]: Started The Apache HTTP Server.
```

| # | @timestamp                | @message                                                                                                                                   |
|---|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | 2021-11-09T06:54:13.38... | {"Severity": "ERROR", "message": "This is where the message detail would go", "IP Address": "10.5.23.124", "ingestionTime": 1636458856910} |
| 2 | 2021-11-09T06:54:13.38... | {"Severity": "ERROR", "message": "This is where the message detail would go", "IP Address": "10.5.23.124", "ingestionTime": 1636458853386} |
| 3 | 2021-11-09T06:54:13.38... | {"Severity": "ERROR", "message": "This is where the message detail would go", "IP Address": "10.5.23.124", "ingestionTime": 1636458853387} |

Logs Insights Info Select log groups, and then run a query or choose a sample query.

Select up to 50 log groups. OcpProdRelease X Clear all

```
1 fields @timestamp, @message, @logStream, @log
2 | parse @message /"MeterValueSampleInterval".*?"value": "(?<sample_interval>\d+)"/
3 | filter to_int(sample_interval) < 30
4 | sort @timestamp desc
5 | limit 1000
```

Run query Cancel Save Actions History

Logs Insights query can run for maximum of 60 minutes.

Unrecognized function name: to\_int ([189,211])



**Manager in the war room**



**Newbie in the Shift**



**Client escalating  
the ticket**



**On-call person**

# The Outage





# The Outage



# The Solution

**A.I.D.E**

**Chat Interface**

Model: llama3.2:3b

context about the issues occurring.

You: The data is from an edge device server that faced issues, check the data for abnormalities and provide a diagnostic report on your findings

Assistant: Based on the provided data, I'll perform some analysis to help identify potential issues with the edge device server.

**\*\*Data Analysis\*\***

After reviewing the data, I noticed the following abnormal patterns:

1. **\*\*500 Internal Server Error\*\***: This error indicates that the server encountered an unexpected condition that prevented it from completing the request. This could be a sign of a software or configuration issue.
2. **\*\*503 Service Unavailable\*\***: This error suggests that the server is currently unable to handle requests due to maintenance or overload issues.
3. **\*\*504 Gateway Timeout\*\***: This error implies that the server was unable to communicate with another server, which may indicate a network connectivity problem.

**\*\*Diagnostic Report\*\***

Based on these findings, I recommend the following diagnostic steps:

1. **Check server logs**: Review the server's log files to identify any errors or warnings related to the 500 and 503 errors.
2. **Verify server configuration**: Ensure that the server's configuration is correct and up-to-date, including software updates and firewall rules.
3. **Network connectivity check**: Verify that the server can communicate with other servers and services using tools like `telnet` or `nc`. Check for any network issues or outages in the region.
4. **Resource utilization monitoring**: Monitor server resource usage (CPU, memory, disk space) to ensure that it's not overloaded.
5. **Test server performance**: Run stress tests or load testing on the server to identify potential performance bottlenecks.

**\*\*Recommendations\*\***

To resolve these issues, I recommend:

1. Checking for software updates and applying them as necessary.
2. Running a thorough server maintenance and optimization process.
3. Verifying network connectivity and configuring any firewalls or security rules correctly.
4. Monitoring resource utilization and adjusting configurations if necessary.
5. Performing stress tests to identify potential performance bottlenecks.

By following these steps, we should be able to identify the root cause of the issues and resolve them to ensure the edge device server is operating smoothly.

**Data Analysis**

/Users/ujwalkandi/Downloads/Failedrequest03072024.csv

**Knowledge Hub**

Add URL

**Added Documents**

<https://umbraco.com/knowledge-base/http-status-codes/>

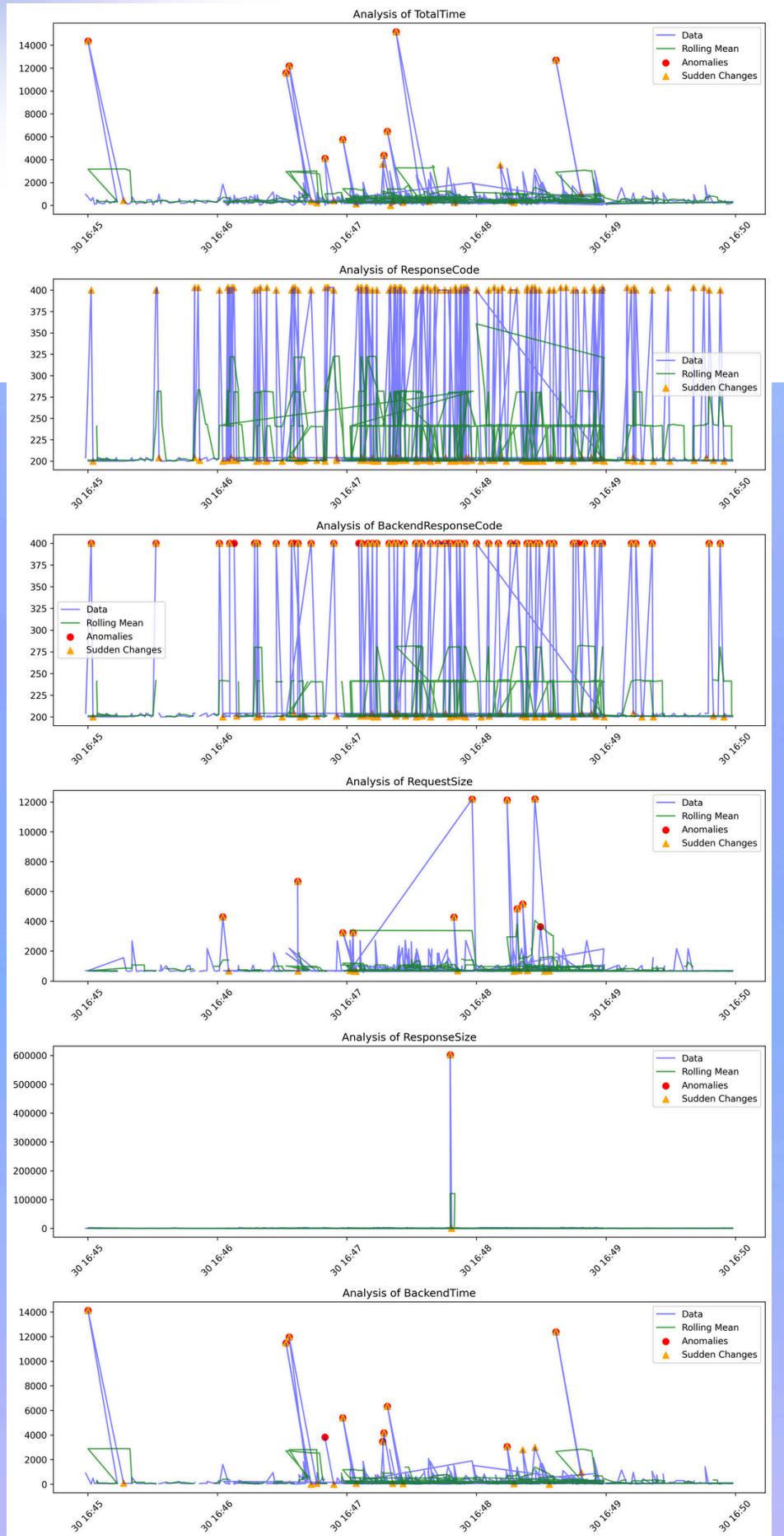
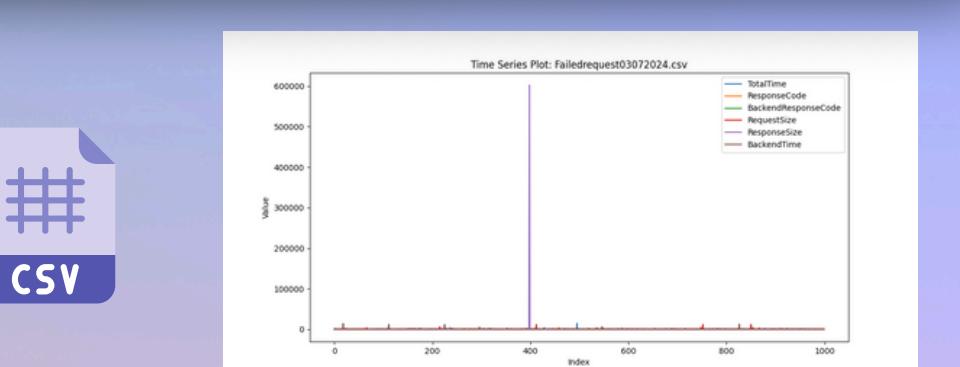
**Analysis Results**

● Analysis complete

**Time Series Analysis**

Value

Time



**DriveDx**  
Award-Winning drive health diagnostic & monitoring tool

Free Download Buy Now

Try It Now for Free! Req: macOS 10.9+

Overview DriveDx vs Others Case Studies USB Drive Dx Support Help FAQ Release Notes

**DriveDx will protect you from data loss and downtime**

With DriveDx you need not worry about losing your important data, music, and photographs.

You can know before your drive is going to fail, because DriveDx tracks more indicators of impending failure than any other product on the market for both SSDs and HDDs.

The screenshot shows the DriveDx software interface with a sidebar and a main panel displaying drive health status and logs.

SSDReporter

SSDs Settings History Documentation

**History**

```

Oct 14 17:23 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Oct 15 13:15 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Oct 17 10:27 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Oct 18 11:59 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Oct 19 20:49 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Oct 20 14:39 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Oct 24 13:55 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Oct 25 12:39 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Oct 26 14:15 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Oct 28 12:39 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Oct 29 20:37 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Oct 30 19:13 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Nov 02 13:35 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 89% (Wear_Levelling_Count: 188 [threshold: 100])
Nov 03 12:31 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 88% (Wear_Levelling_Count: 188 [threshold: 100])
Nov 04 15:16 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 88% (Wear_Levelling_Count: 188 [threshold: 100])
Nov 05 12:12 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 88% (Wear_Levelling_Count: 188 [threshold: 100])
Nov 06 14:41 <Notice>: Macintosh HD (S1K4NYCF834673) (/dev/disk0) 88% (Wear_Levelling_Count: 188 [threshold: 100])

```

Reload Open in 'Console' app

No issues found.  
Reference Code: ADP000

For more information...  
To determine your support and service options, Apple would like to collect your Mac computer's serial number and reference code. Your Mac will start up in macOS Recovery and you will be able to access your support and service options through Safari. Serial number X01XX0XXX1XX  
Get Started

## Apple Diagnostics reference codes

Get more information about the reference codes shown in Apple Diagnostics test results.

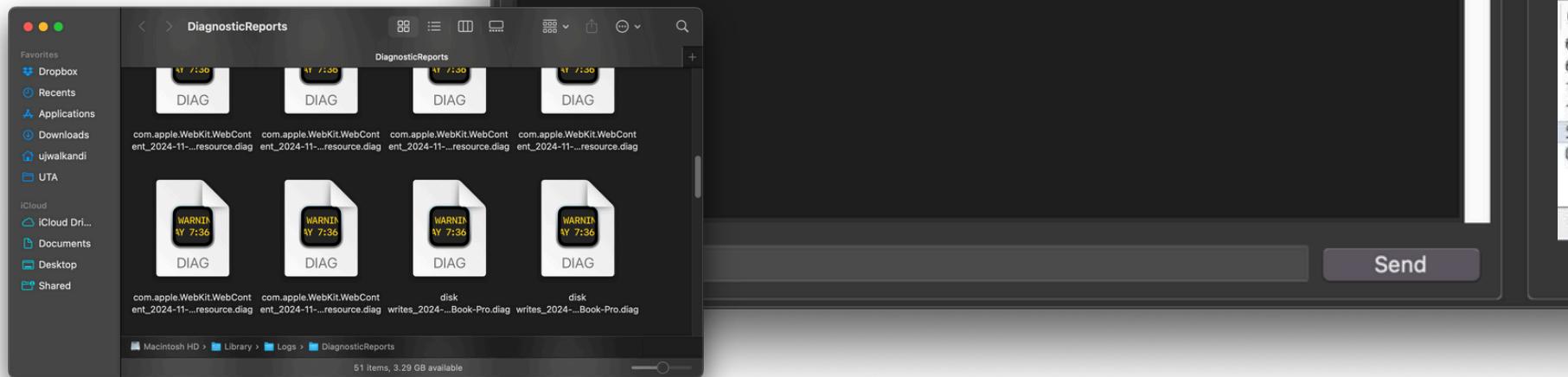
When you use [Apple Diagnostics](#) to test your Mac, the test results include one or more of these reference codes.

If you can't use this information to resolve the issue, [contact Apple](#) or take your Mac to an Apple Authorized Service Provider (AASP), Apple Store, or an Independent Repair Provider. Provide the code you received from the test. Genuine Apple parts are also available for out-of-warranty repairs through [Self-Service Repair](#).\*

| Code   | Definition                                           | More information                                                                                                        |
|--------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| ADP000 | No issues found.                                     | No issues found.                                                                                                        |
| ALS001 | There may be an issue with the ambient light sensor. | Contact Apple or take your computer to an AASP or Apple Store to learn which service and support options are available. |
| BMT001 | There may be an issue with the Touch ID sensor.      | Contact Apple or take your computer to an AASP or Apple Store to learn which service and support options are available. |
| BMT003 |                                                      |                                                                                                                         |
| BMT004 |                                                      |                                                                                                                         |
| BMT005 |                                                      |                                                                                                                         |
| CEH001 | There may be an issue with the case handle.          | The housing latch may be unlocked. Verify the latch is in the fully locked position, then run the test again.           |
| CEH002 |                                                      |                                                                                                                         |

# On-device Diagnostics

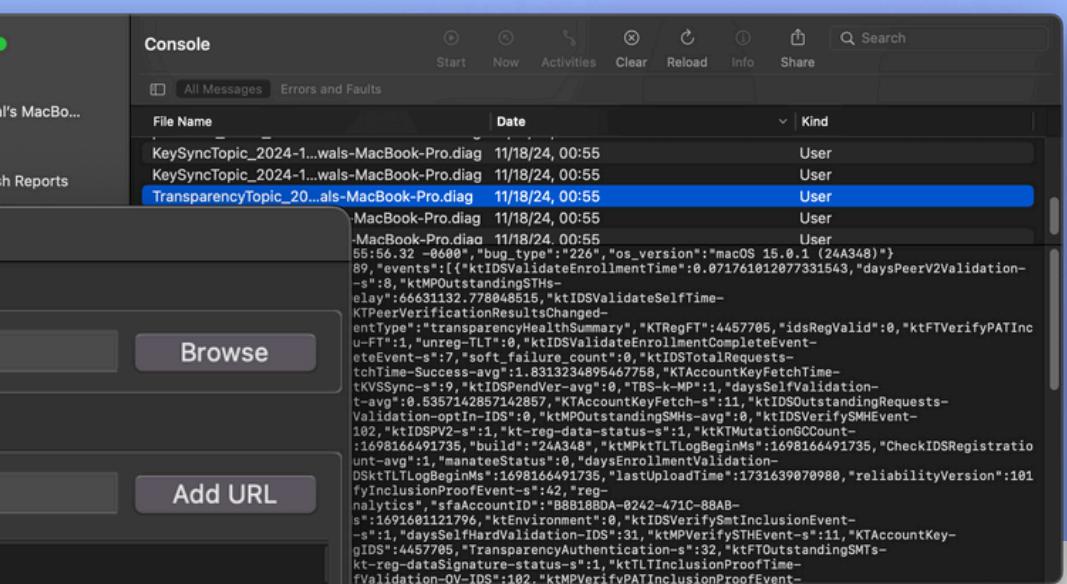
# The Solution



The A.I.D.E. interface is shown across five main sections:

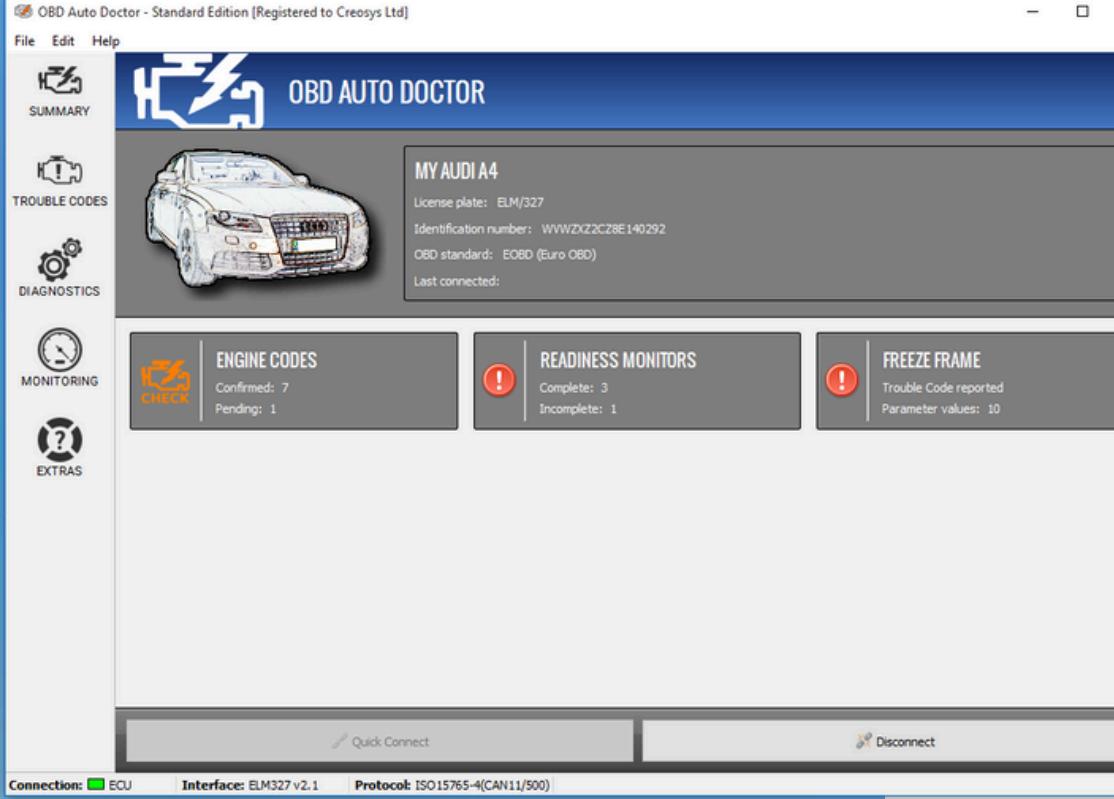
- Chat Interface:** Shows a dropdown menu set to "Model: llama3.2:1b".
- Data Analysis:** Contains a "Browse" button.
- Knowledge Hub:** Contains an "Add URL" button.
- Added Documents:** Displays the URL <https://support.apple.com/en-us/102334>.
- Analysis Results:** Shows a green circular indicator followed by the message "URL added successfully". Below this are two monitoring tools:
  - Disk Transfer Rate - All Disks - Last Minute:** A line graph showing disk transfer rates over the last minute, fluctuating between 0 and 100 MB/sec.
  - Disk Transfer Rate - All Disks - Current:** A gauge chart showing the current disk transfer rate at 57 MB/sec, with a scale from 0 to 100 MB/sec.A table provides detailed current disk activity statistics:

**WARNING**  
7:36



# Engine Check

**Option 1**



**Durametric Diagnostic Tool for Porsche version: 6.3.2.5 ( 1998-2005 Porsche 911 996 )**

The screenshot shows the Durametric Diagnostic Tool interface for a Porsche 911 (996) from 1998-2005. The left pane displays a tree view of diagnostic categories: Engine ME7.8 - Turbo, Identification, Information, Fault Codes, Freeze Fault Codes, Actual Values (which is selected), Input Signals, Ready Status, Activations, Coding, Command Console, Airbag, Air Conditioning, Alarm, Xenon Headlights, Park Assist, and Seat Memory. The right pane shows a table of available actual values with columns for value, Units, and Color. Red circles with arrows point to the 'Actual Values' category in the tree view, the 'Available Actual Values' tab in the table header, and the 'Options' tab in the table header.

**Professional kit \$735**

Choose this option to work on Porsche 928, 944, 964, 968 or 1994-1995 Porsche 993 needing the round diagnostic connector. This kit also supports Porsche 911 (1996+ 993, 996, 997, 991), Boxster, Cayenne, Cayman, Macan and Panamera.

[Buy Now](#)

**Option 2**



**Professional kit w/extension cable \$795**

This option includes the same model support as above and adds a 50' extension cable.

[Buy Now](#)

# The Solution

A.I.D.E

Chat Interface

Model: llama3.2:1b

Data Analysis

Knowledge Hub

Added Documents

https://www.porscheirvine.com/service/obd-ii-trouble-codes.htm

Analysis Results

● URL added successfully

14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8 16.0 °C  
700 800 900 1,000 1,100 1,200 V (Volt)  
Time (s)

14.68 V (Volt)  
832.00 1/min  
102.00 °C

Send

GitHub  
<https://github.com/barracuda-fsh/pyobd> ::

barracuda-fsh/pyoba: An OBD-II compliant car diagnostic tool

Contribute to barracuda-fsh/pyoba development by GitHub.

w results with. porsche

jakka351 › OpenJ2534 ::

2534: Open (and Closed) Source J2534 ...

source J2534 Resources for Automotive **Diagnostics**, Reprogramming & ...

jakka351/OpenJ2534: Open (and Closed) Source J2534

um  
im.com › threads › page-35 ::

lav etc... Do-It-Yourself-Thread | Page 35

I don't even get my files from **GitHub**, so perhaps you should be going to ...  
**Diagnostic tool** doesn't work. It still ...

rnd-ash › OpenVehicleDiag

VehicleDiag: A rust based cross-platform ...

atics (OVD) is a Rust-based open source vehicle ECU **diagnostic** ...

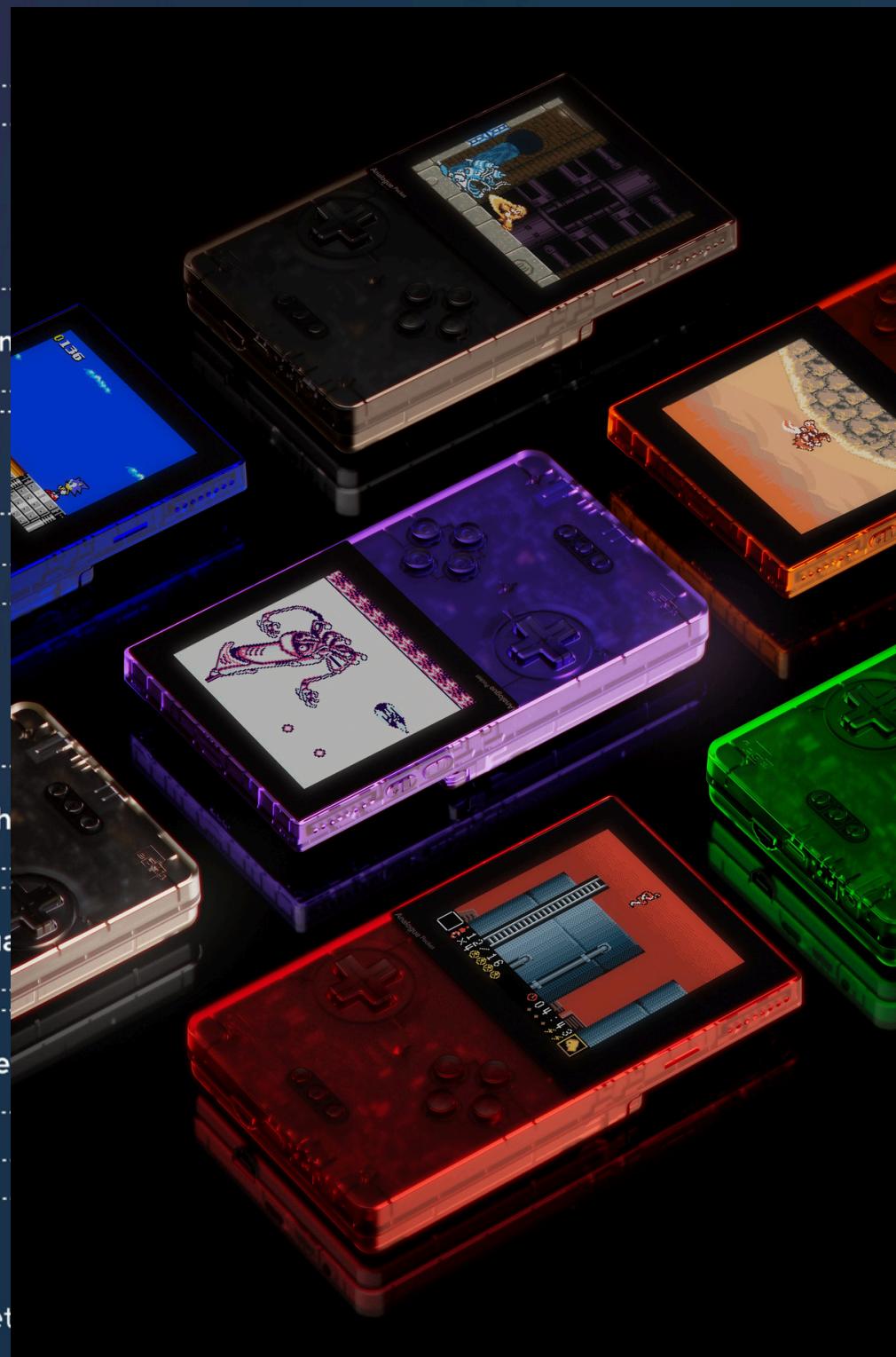
er navigation. Terms · Privacy · Security · Status ...

md ... s 21

# Llama Stack APIs

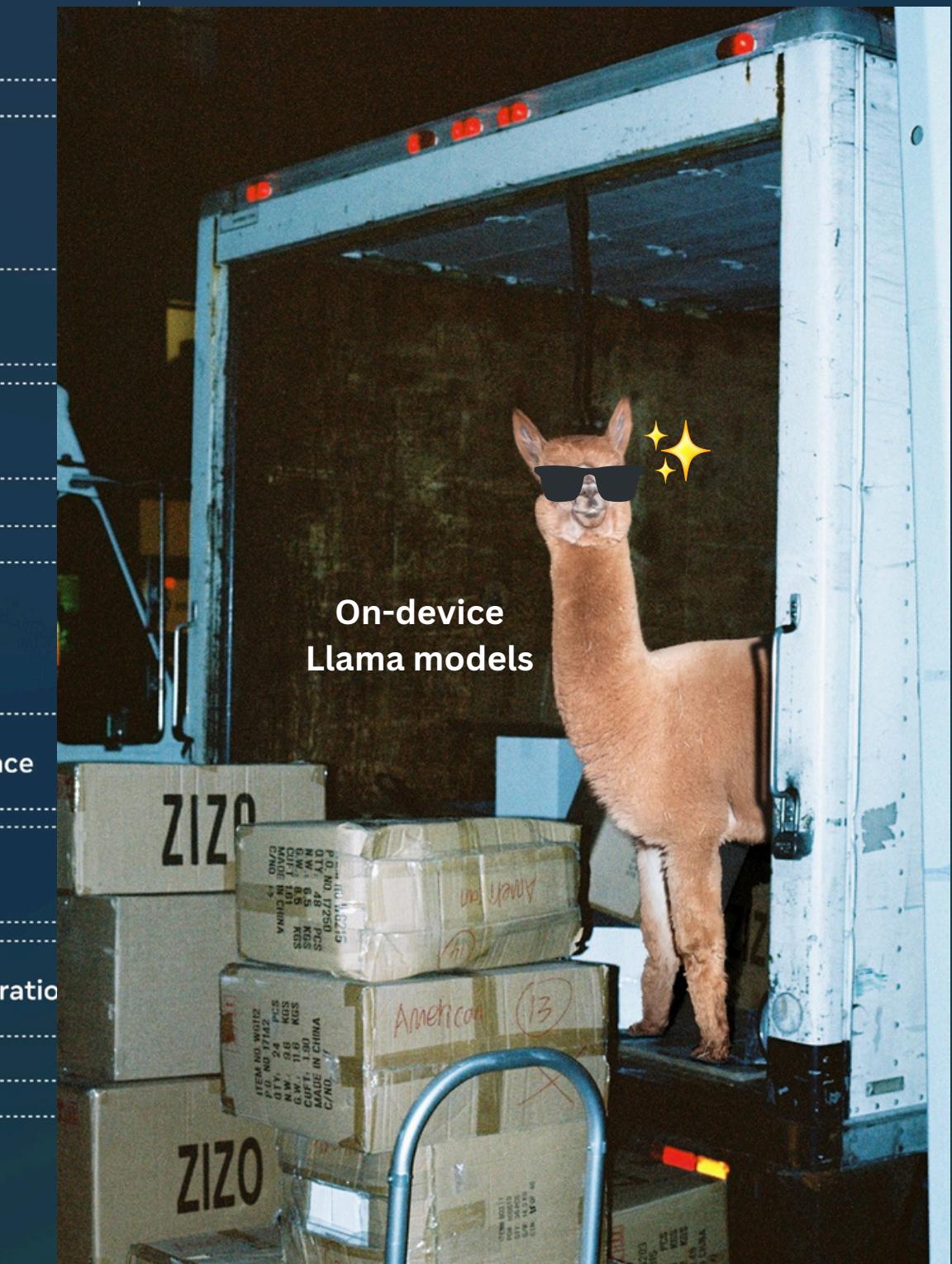


Diverse Distro Ecosystem



Custom Built Applications

Hardware  
GPUs, accelerators, storage



On-device  
Llama models

Dynamic models