

AMIS



HANDSON WITH ORACLE MANAGEMENT CLOUD: A PM & LOG ANALYTICS

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26 January 2017, Nieuwegein

AGENDA

OVERVIEW OF WORKSHOP

WALK THROUGH OF THE
HANDSON EXCERSISES

DEMO OF APPLICATION
THE WORLD VIEW

DEMO OF THE HR APPLICATION
FROM HELL
AND HOW APM DISSECTS IT

DO IT YOURSELF

- APM SESSION AND CALL CHAIN ANALYSIS
- LOG ANALYTICS EXPLORATION AND DETECTIVE WORK

INTRODUCTION OF THE
APPLICATION AND PLATFORM
ARCHITECTURE & THE OMC
AGENT CONFIGURATION



BONUS:

- INSTALL THE APM AGENT ON YOUR LOCAL (VM) ENVIRONMENT
- INSTALL THE LOG ANALYTICS AGENT ON YOUR LOCAL (VM) ENVIRONMENT

THE WORLD VIEW APPLICATION

The World View

/TheWorldAtRestService/resources/world-rss/feed/nos

```
-<feed>
- <entries>
- <author>
- <description>
<p>Het Duitse kabinet heeft het plan om tol op de snelwegen te gaan heffen goedgekeurd. Het plan is na zware kritiek uit buurlanden als Nederland en worden zuinige auto's minder belast en zijn er meer verschillende tarieven bij gekomen. Daarmee komt de Duitse verkeersminister Alexander Dobrind zijn.</p><h2>Autobahnvignet</h2><p>Afgesproken is nu dat buitenlandse automobilisten met een zeer schone auto 2,50 euro gaan betalen voor een grootste veruilen oplopen tot 4, 8, 14 en maximaal 20 euro. Een vignet voor twee maanden varieert in prijs tussen 7 en 40 euro, afhankelijk vindt het genoeg dat buitenlanders alleen hoeven te betalen als ze gebruikmaken van de snelwegen. Voor de rijkswegen is geen tolvignet nodig.</p><p>Oostenrijk gedreigd desnoods naar het Europees Gerechtshof te stappen om tegen de plannen te protesteren. Ook vandaag komen de tegenstanders we opgeven, lie hij ook weten in een tweet.</p><p>Het plan moet nog goedgekeurd worden door de Bondsdag en de Bondsraad. Verwacht wordt dat dat minister zal dat jaarlijks 500 miljoen euro zijn, ook na de aanpassingen. Voor wie de tol echt moeten gaan betalen, duurt nog wel even. Het systeem wo</description>
<guid>http://nos.nl/12154827</guid>
<link>http://nos.nl/12154827</link>
<title>Duitse tolplan niet aanpassingen aangenomen</title>
<description>
<p>Ren man van 27 uit Oirschot is vermoord tot zes jaar cel en tbs met dwangsverblijf. Hij stak in februari voorig daar een 22-jarige Helmondse me</description>
```

News of the World (courtesy of reuters)

Select news channel: CHN BSC NOS (Dutch) ABC Reuters

Foreign powers back Syria truce deal, war erupts among rebels

ALLIANC (Reuters) - Russia and regional powers Turkey and Iran backed a shaky truce between Syria's warring parties on Tuesday and agreed to monitor its compliance, but on the ground rebels faced continue fighting on two fronts which could undermine the deal.

U.N. 'racing' to prepare aid for civilians ahead of battle for west Mosul

BAGHDAD (Reuters) - The United Nations said on Tuesday it had "raced against the clock" to prepare emergency aid for hundreds of thousands of endangered civilians in Mosul after Iraq's army offensive forcing to cut off access to the western half of the city.

China says will protect South China Sea sovereignty

BEIJING (Reuters) - China said on Tuesday it had "immediately" sovereignty over disputed islands in the South China Sea after the White House vowed to defend "international territories" in the strategic waterway.

Parliament must vote before UK can trigger Brexit, top court rules

LONDON (Reuters) - Prime Minister Theresa May must give parliament a vote before she can formally start Britain's exit from the European Union, the UK Supreme Court ruled on Tuesday, giving lawmakers who oppose her Brexit plans a shot at amending them.

Under cover of night, Syrian wounded seek help from enemy Israel

Golan Heights (Reuters) - It happens nearly every night. After dark, the Syrian wounded come to known locations on the Israeli-Syrian front in the Golan Heights, driven by desperation to seek help from an enemy army.

China says hopes Mongolia learned lesson after Dalai Lama visit

BEIJING (Reuters) - China said on Tuesday it hopes Mongolia has learned a lesson and will keep a promise not to invite the Tibetan spiritual leader the Dalai Lama again after his visit in November led to a chill in relations.

Israel plans 2,500 new settlement homes in occupied West Bank

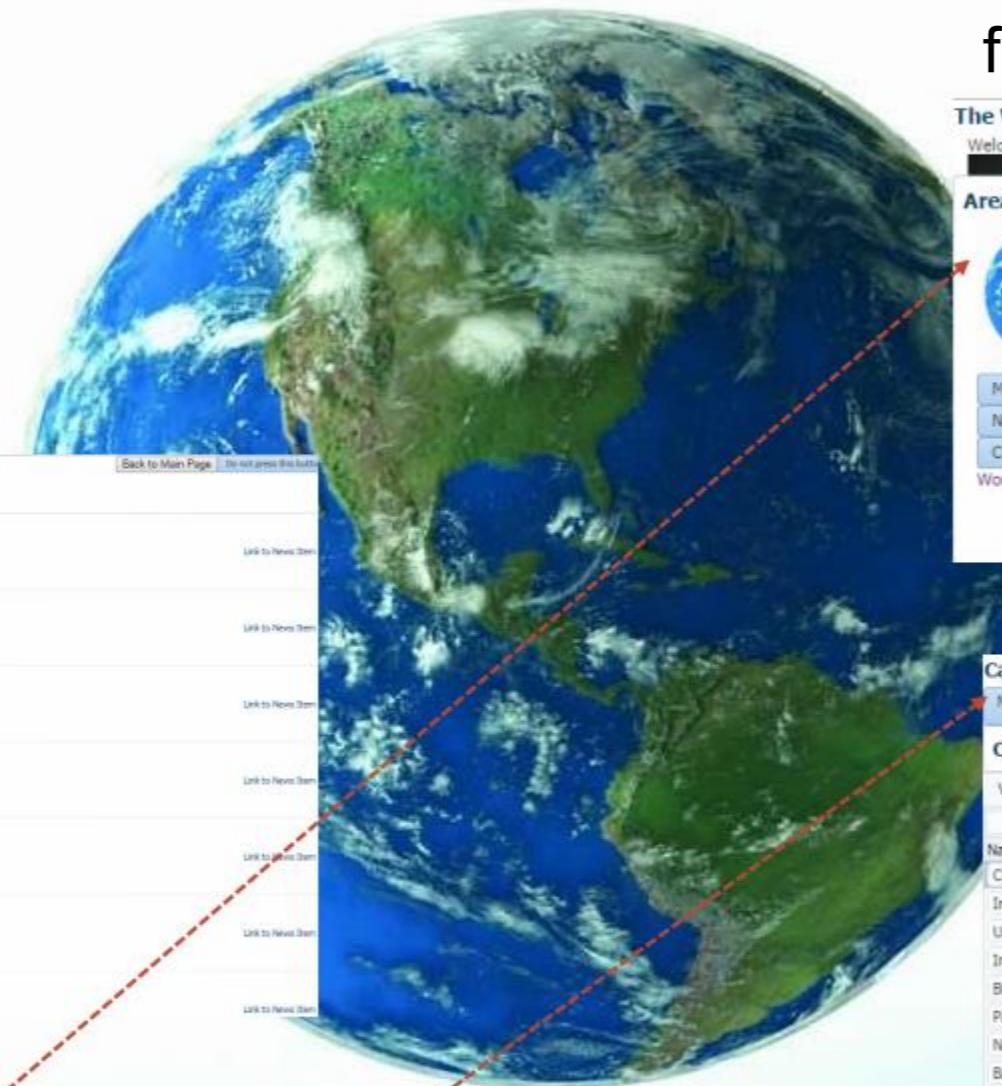
JERUSALEM (Reuters) - Israel announced plans on Tuesday for 2,500 more settlement homes in the occupied West Bank, the second such declaration since U.S. President Donald Trump took office signaling he would be less critical of such projects than his predecessor.

faces/WorldNews.jsf

Back to Main
NullPointerException
IndexOutOfBoundsException
NumberFormatException
Set a dummy String to look for in APM some string

faces/WorldOfErrors.jsf

index.html



Enter the application

- [The Other Index](#)
- [The Other Non Existant Index \(a dead link\)](#)
- [World News](#)
- [Catalog of Countries of the World](#)

faces/main.jsf

The World

Welcome Guest:

Areas of interest

Map

News

Countries Catalog

Worldly Talk

So much to see and do. Get around, meet people, enjoy life

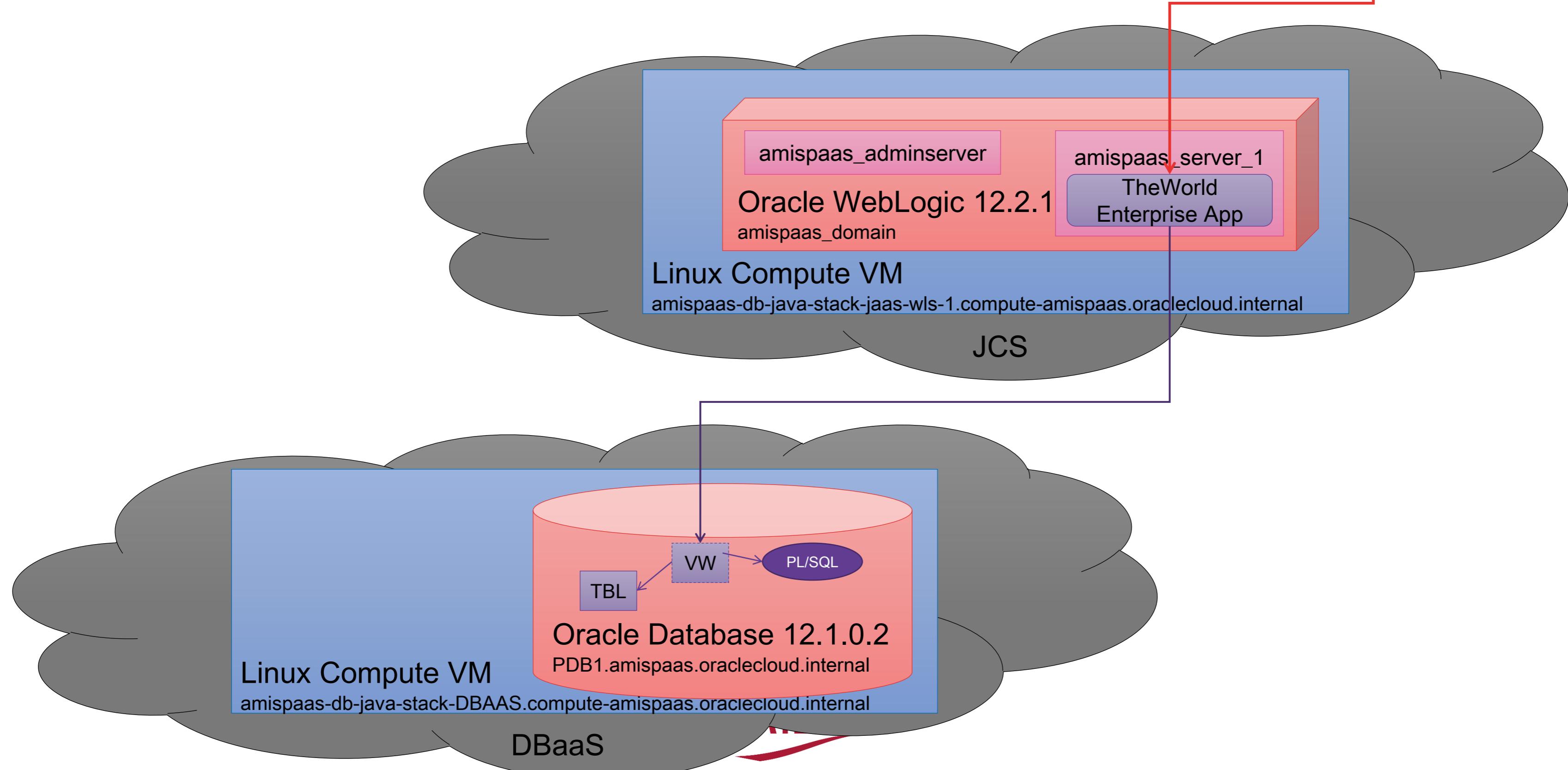
worldlytalk

Name	Code	Continent	Population	Area	GovernmentForm	Birthrate	Deathrate	LifeExpectancy
China	CN	Asia	1373541278	9596960	People's republic	12.4	7.7	75.5
India	IN	Asia	1266883598	3287263	Federal parliame	19.3	7.3	68.5
United States	US	North America	323995528	9826675	Federal presiden	12.5	8.2	79.8
Indonesia	ID	Asia	258316051	1904569	Presidential repu	16.4	6.4	72.7
Brazil	BR	South America	205823665	8514877	Federal presiden	14.3	6.6	73.8
Pakistan	PK	Asia	201995540	796095	Federal parliame	22.3	6.4	67.7
Nigeria	NG	Africa	186053386	923768	Federal presiden	37.3	12.7	53.4
Bangladesh	BD	Asia	156186882	143998	parliamentary rep	19	5.3	73.2
Russia	RU	Europe	142355415	17098242	Federal republic	11.3	13.6	70.8
Japan	JP	Asia	126702133	377915	Parliamentary co	7.8	9.6	85
Mexico	MX	North America	123166749	1964375	Federal presiden	18.5	5.3	75.9
Philippines	PH	Asia	102624209	300000	Presidential repu	24	6.1	69.2
Ethiopia	ET	Africa	102374044	1104300	Federal parliame	36.9	7.9	62.2
Vietnam	VN	Asia	95261021	331210	Republic (commu	15.7	5.9	73.4
Egypt	EG	Africa	94666993	1001450	Presidential repu	30.3	4.7	72.7

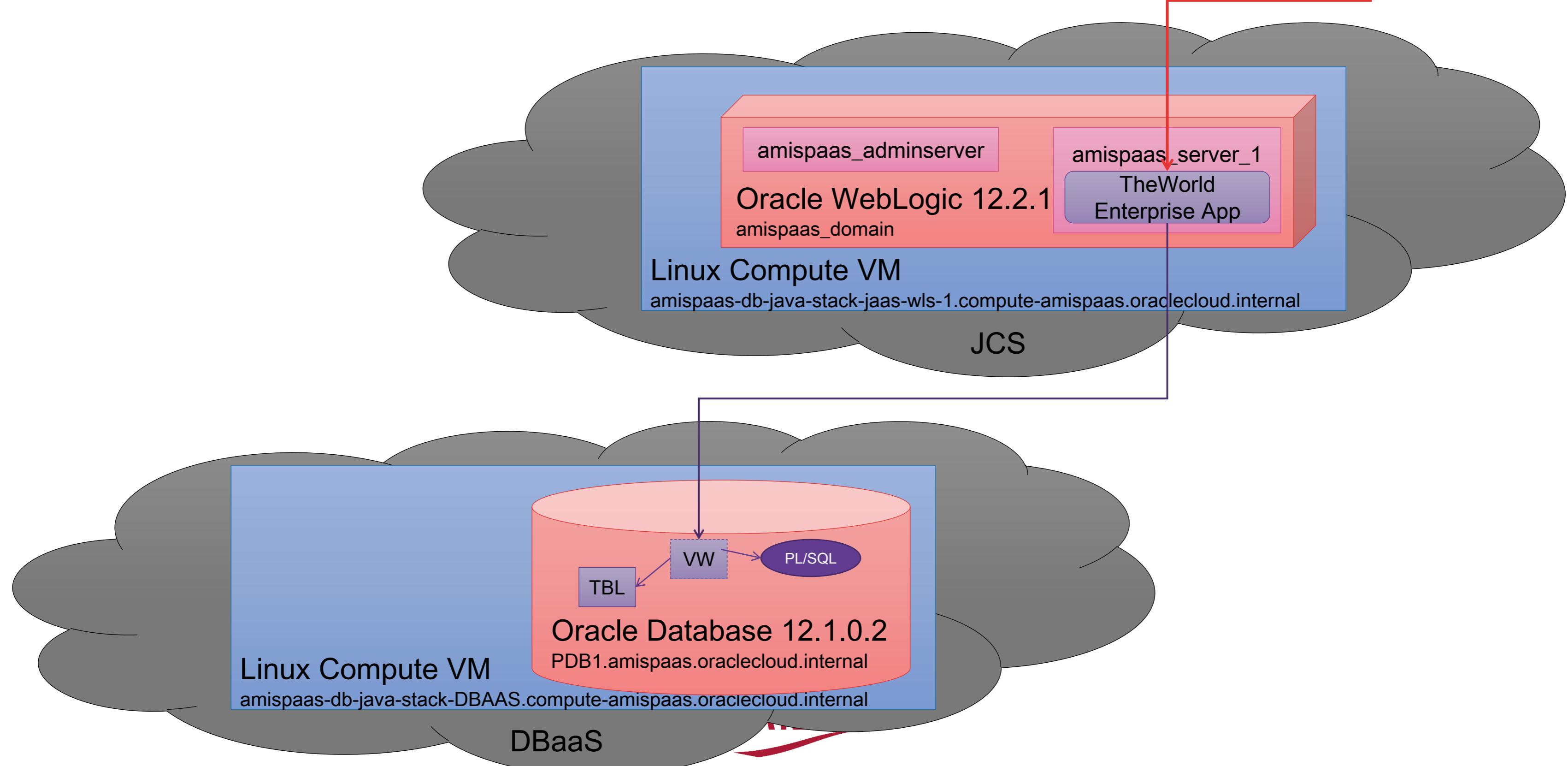
faces/CountriesCatalog.jsf

moreworldlytalk

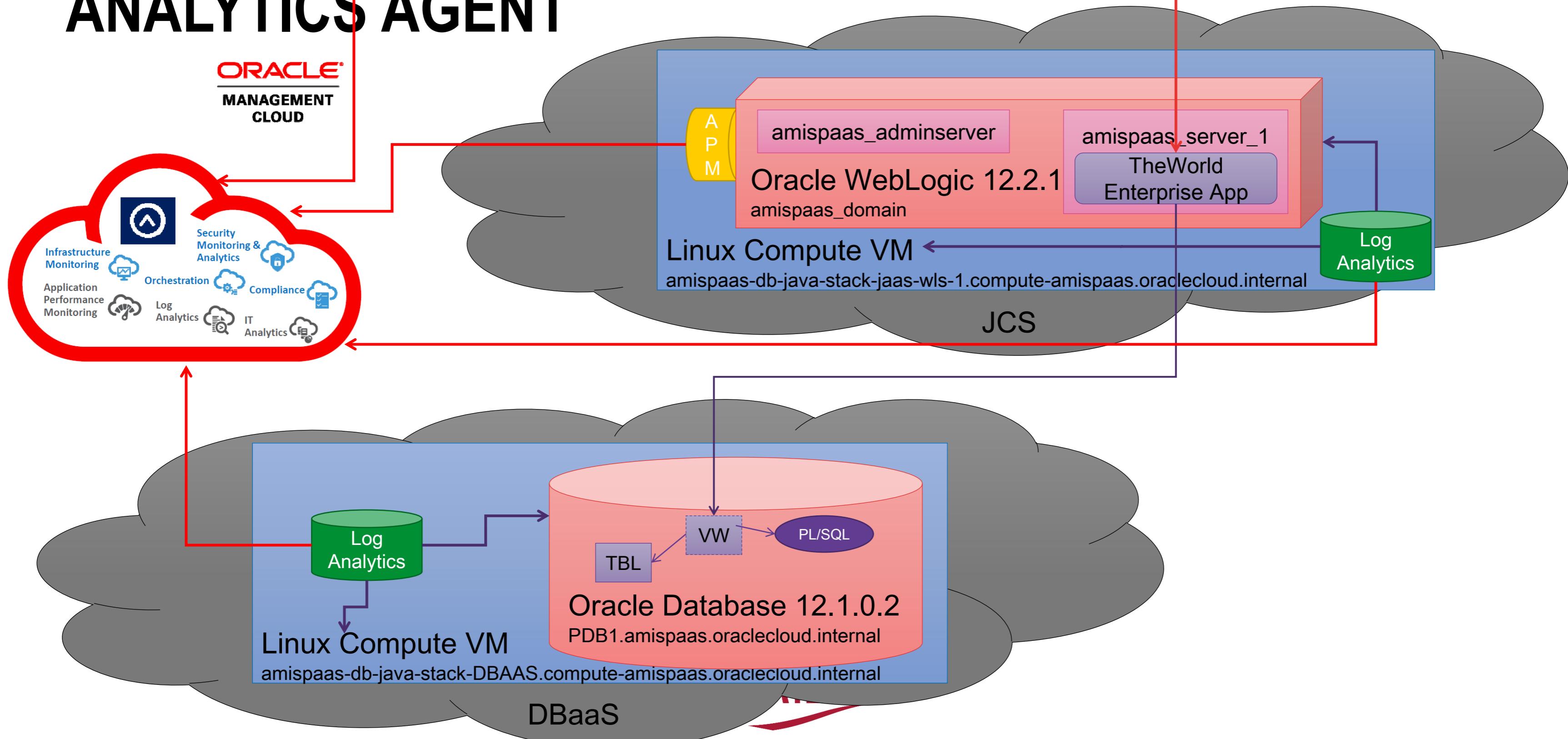
APPLICATION ARCHITECTURE



RUNTIME INFRASTRUCTURE



CONFIGURATION OF APM AND LOG ANALYTICS AGENT



CONFIGURATION OF APM AND LOG ANALYTICS AGENT

ORACLE® Management Cloud
Set up Oracle Management Cloud

Oracle Management Cloud Agents

Cloud Agents

Name	Host	Version	Time Since Last Check In
amispaas-db-java-stack-DBAAS.compute-amispaas.oraclecloud.internal:3872	amispaas-db-java-stack-DBAAS.compute-amispaas.oraclecloud.internal	Up to date	0 seconds
amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal:3872	amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal	Up to date	1 minute

Sort by Name

Gateways Data Collectors Cloud Agents APM Agents Registration Keys Download

Oracle Management Cloud Agents

APM Agents

Name	Agent Platform	Version	Time Since Last Check In
amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal:9072	Java	1.12.0	6 seconds
amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal:9074	Java	1.12.0	6 seconds

Showing: Agents matching 'amispaas' ×

Sort by Name

Gateways Data Collectors Cloud Agents APM Agents Registration Keys Download

CONFIGURATION OF LOG ANALYTICS

ORACLE Management Cloud
Log Analytics

Associated Log Sources: amispaas-db-java-stack-DBAAS.compute-amispaas.oraclecloud.internal

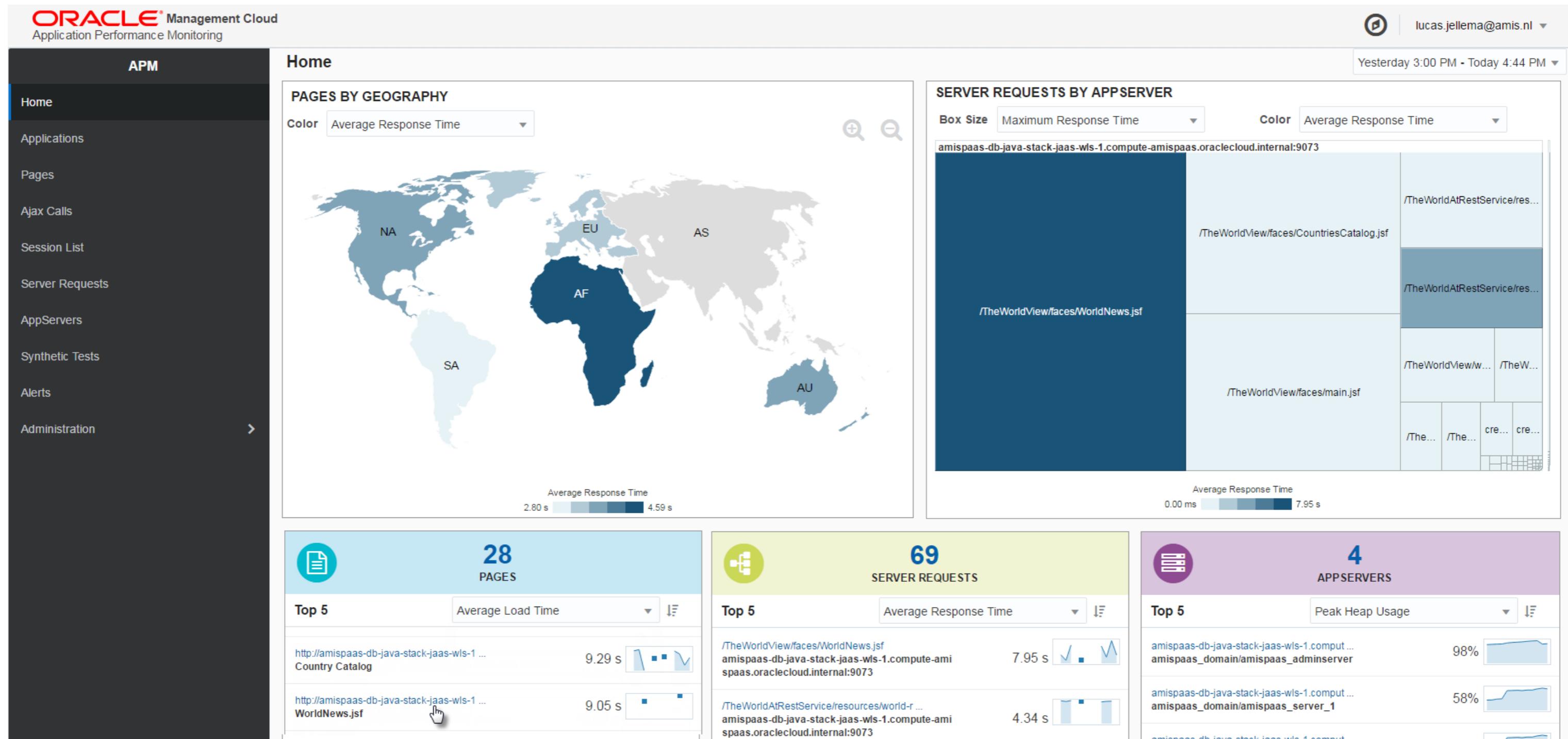
	Associated Log Sources	Status
<input type="checkbox"/>	Linux Syslog Logs	Success
<input type="checkbox"/>	Linux Audit Logs	Success
<input type="checkbox"/>	Linux YUM Logs	Success
<input type="checkbox"/>	Linux Cron Logs	Success

Associated Log Sources: amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal;9071;amispaas_server_1

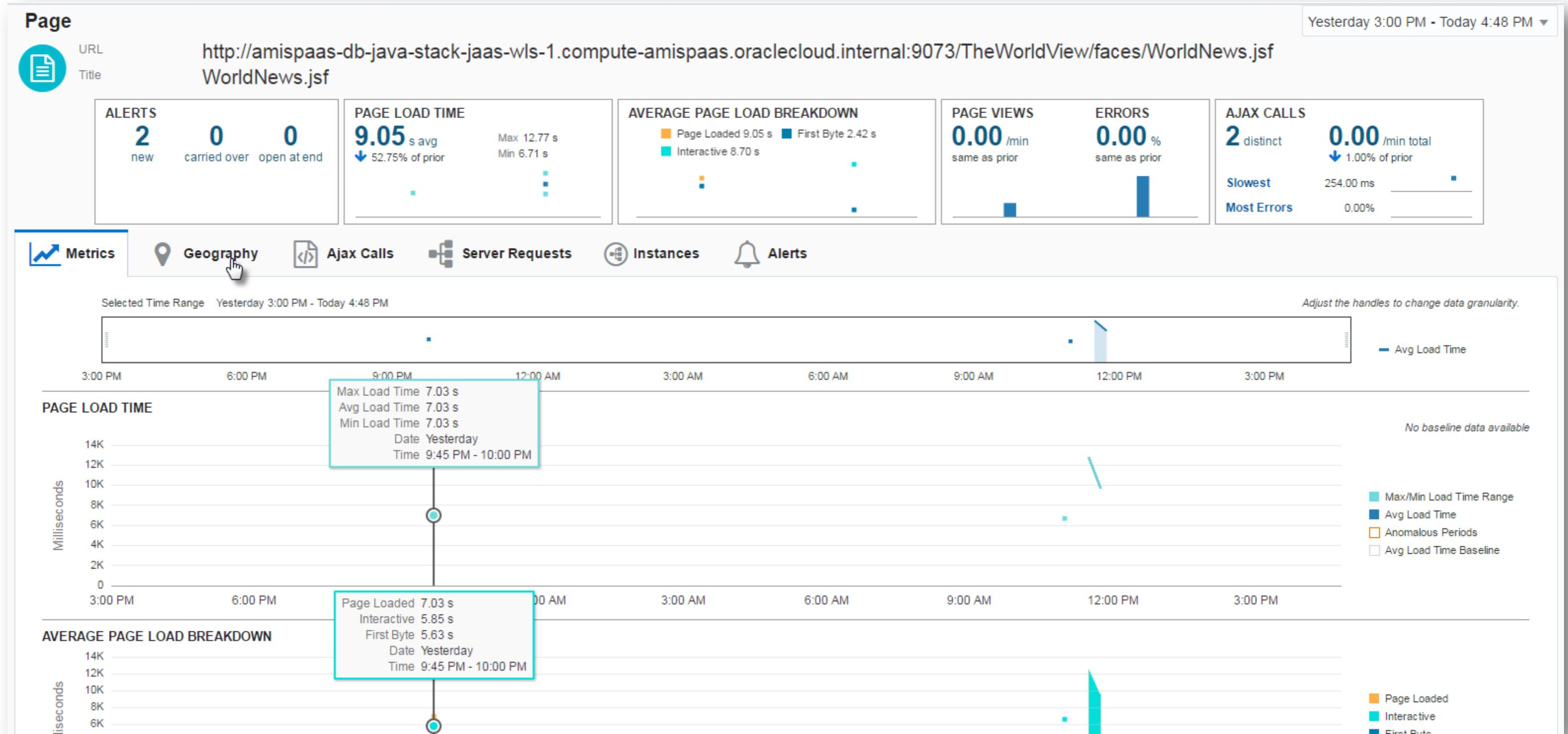
	Associated Log Sources	Status
<input type="checkbox"/>	FMW WLS Server Diagnostic Logs	Success
<input type="checkbox"/>	FMW WLS Server Access Logs	Success
<input type="checkbox"/>	FMW WLS Server Logs	Success
<input type="checkbox"/>	FMW WLS Server STDOUT Logs	Success

Page of 1 (1-4 of 4 items) | < >

INTRODUCTION TO THE HANDSON



SLOW PAGES



DETAILS FOR PAGE WORLDNEWS.JSF

Page Jan 18, 2017 1:00 PM - Today 4:49 PM

URL <http://amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal:9073/TheWorldView/faces/WorldNews.jsf>
Title WorldNews.jsf

ALERTS
7 new 0 carried over 0 open at end

PAGE LOAD TIME
10.22 s avg
↑ 173% of prior
Max 1.12 m Min 874.00 ms

AVERAGE PAGE LOAD BREAKDOWN
Page Loaded 10.22 s First Byte 1.55 s
Interactive 9.78 s

PAGE VIEWS
0.00 /min
same as prior

ERRORS
0.00 %
same as prior

AJAX CALLS
2 distinct
0.00 /min total
same as prior
Slowest: 7.22 s
Most Errors: 6.67%

Metrics **Geography** **Ajax Calls** **Server Requests** **Instances** **Alerts**

PAGES BY GEOGRAPHY

Color: Total Views



ISL NOR DEU FRA ITA HUN ROU TUR POL BLR UKR ESP

BROWSER TYPE BREAKDOWN

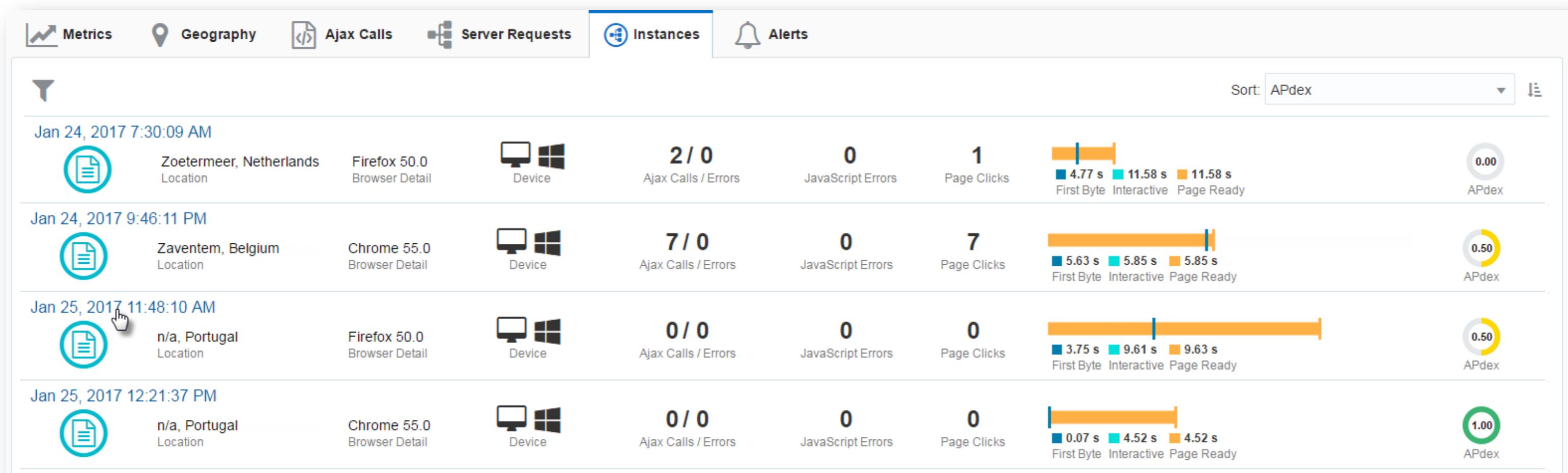
Browser	Count
Chrome	1
Firefox	1
IE	1
Opera	1

Showing 1-4

DEVICE O/S BREAKDOWN

Device OS	Count
Windows	4

INSTANCES OF THE PAGE == USER SESSIONS – DRILL DOWN ON PROBLEMATIC SESSION



DETAILS FOR SESSION WITH A SLOW PAGE EXPERIENCE

Session

 **Jan 25, 2017 11:45:22 AM**
Duration 8m 2s

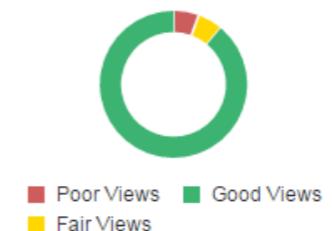
Summary

Personal computer, Windows 8
Device
IE 10.0
Browser Detail
Portuguese
Language
1670x939 / 1670x813
Screen / Window Size

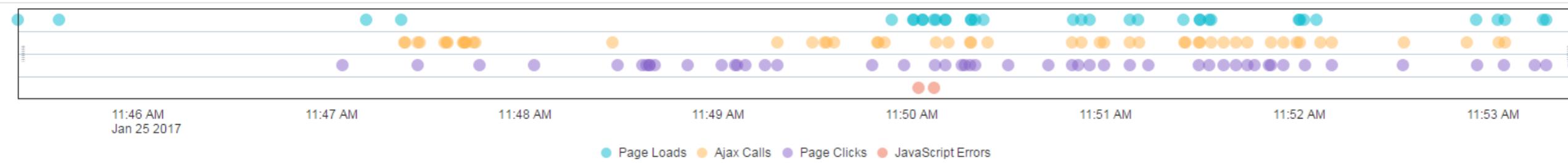
n/a, Portugal
Location
Fundacao para a Ciencia e a
Tecnologia, I.P.
Provider
194.117.36.253
Client IP

36
Page Views
50
Page Clicks

51 / 0
Ajax Calls / Errors
2
JavaScript Errors



Timeline



Jan 25, 2017 11:45:22 AM	 WorldNews.jsf	0 / 0	0	0	0s		0.00
Jan 25, 2017 11:45:35 AM	 unknown	0 / 0	0	1	1m 35s		1.00

Jan 25, 2017 11:47:03 AM	 /html/body/div/div						
Jan 25, 2017 11:47:10 AM	 Country Catalog	0 / 0	0	0	0s		0.00

Jan 25, 2017 11:47:21 AM	 unknown	22 / 0	0	17	2m 31s		1.00
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RETURN TO PAGE AND INSPECT SERVER REQUESTS

Page

URL: <http://amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal:9073/TheWorldView/faces/WorldNews.jsf>

Title: WorldNews.jsf

Jan 18, 2017 1:00 PM - Today 4:49 PM ▾

ALERTS: 7 new, 0 carried over, 0 open at end

PAGE LOAD TIME: 10.22 s avg, same as prior. Max 1.12 m, Min 874.00 ms.

AVERAGE PAGE LOAD BREAKDOWN: Page Loaded 10.22 s, First Byte 1.55 s, Interactive 9.78 s.

PAGE VIEWS: 0.00 /min, same as prior.

ERRORS: 0.00 %, same as prior.

AJAX CALLS: 2 distinct, 0.00 /min total, same as prior. Slowest: 7.22 s, Most Errors: 6.67%.

Metrics Geography Ajax Calls Server Requests Instances Alerts

View ▾

Sort: Average Response Time ▾ Showing 1-2

/TheWorldView/faces/WorldNews.jsf

SERVLET_ADF_UI

amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal:9073 AppServer

TheWorld_Project1_TheWorld Deployment

true Is Flow Start

RESPONSE TIME: Avg Response 6.97 s, Max, Min Response 34.53 s, 1.00 ms.

CALLS & ERRORS: 108 Successful, 7%, 8 Total Errors, 116 Total.

AVG TIER TIME: AppServer 3.13 s, Database <1 ms, External 3.84 s.

SERVER REQUEST DETAILS

Server Request

Jan 18, 2017 1:00 PM - Today 4:49 PM ▾

 /TheWorldView/faces/WorldNews.jsf
Type: AppServer Deployment
SERVLET_ADF_UI
amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal:9073
TheWorld_Project1_TheWorld

REQUEST RESPONSE TIME
6.97 s avg
no prior data
Max. 34.53 s
Min. 1.00 ms

TIER AVERAGE RESPONSE
External 55.10%
AppServer 44.89%
Database <1%

CALLS
<1 /min
no prior data

ERRORS
6.90 %
no prior data

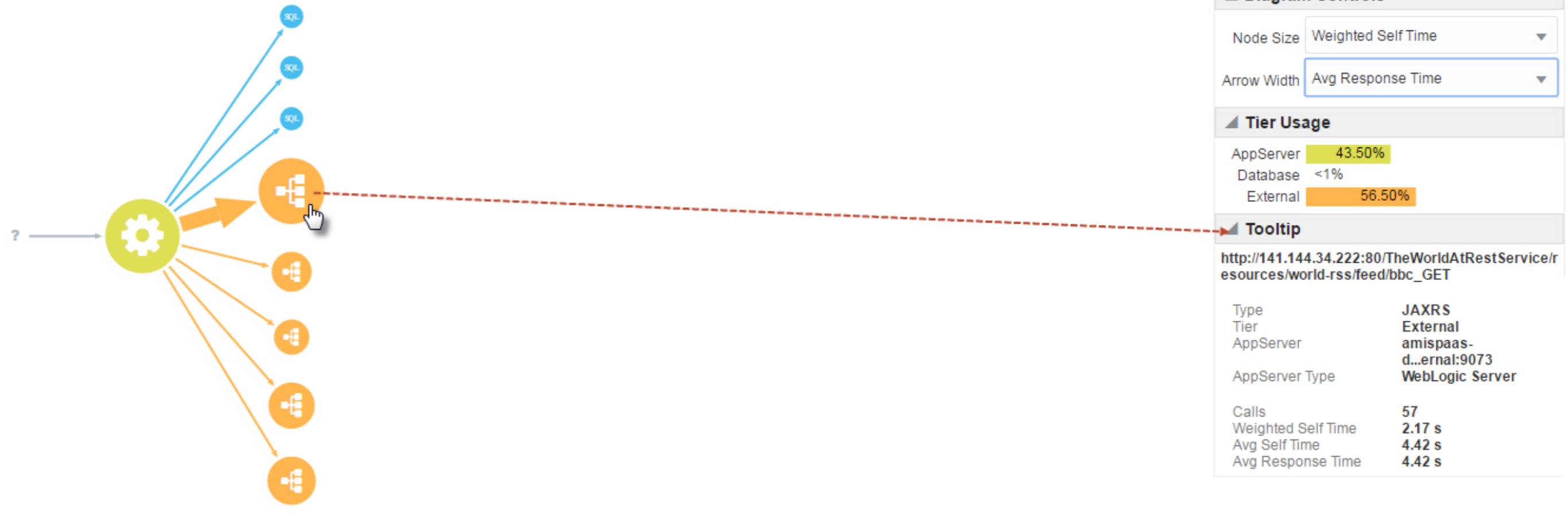
APPSERVER
Heap Memory: 85.03%
CPU Usage: <1%
Load

Diagram Metrics Links Callers Database Instances

Diagram Controls
Node Size: Weighted Self Time
Arrow Width: Avg Response Time

Tier Usage
AppServer: 43.50%
Database: <1%
External: 56.50%

Tooltip
http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/bbc_GET
Type: JAXRS
Tier: External
AppServer: amispaas-d...ernal:9073
AppServer Type: WebLogic Server
Calls: 57
Weighted Self Time: 2.17 s
Avg Self Time: 4.42 s
Avg Response Time: 4.42 s



SHOW METRICS FOR SERVER REQUEST



INSTANCES [OF THE SERVER REQUEST]

Diagram Metrics Links Callers Database Instances

View ▾ Showing 1-25 >

Status	Start Time	End Time	Tiers & Response Time (ms)	Calls	Internal Errors	CPU Usage (ms)	Allocation (MB)	Snapshots	Reason Captured	ECID	Abridged
✓	Jan 25, 2017 1:43:16.314 PM	Jan 25, 2017 1:43:18.759 PM	2,445	10	0	3,769	511	10	▲ Max Time	449902a9-1b68-497 0-8ddc-8c1c00062f6 b-0000292e	No
✗	Jan 25, 2017 1:43:06.052 PM	Jan 25, 2017 1:43:09.912 PM	3,860	13	1	4,277	550	14	◆ Fault	449902a9-1b68-497 0-8ddc-8c1c00062f6 b-0000292a	No
✓	Jan 25, 2017 1:34:04.710 PM	Jan 25, 2017 1:34:34.449 PM	29,739	20	0	6,730	1,038	15	▲ Max Time	449902a9-1b68-497 0-8ddc-8c1c00062f6 b-000028db	No
✗	Jan 25, 2017 12:16:04.767 PM	Jan 25, 2017 12:16:21.383 PM	16,616	12	1	3,996	599	9	◆ Fault	449902a9-1b68-497 0-8ddc-8c1c00062f6 b-00002685	No
✓	Jan 25, 2017 11:48:10.305 AM	Jan 25, 2017 11:48:19.716 AM	9,411	6	0	2,726	324	10	▲ Max Time	449902a9-1b68-497 0-8ddc-8c1c00062f6 b-0000240a	No
✗	Jan 25, 2017 11:45:22.770 AM	Jan 25, 2017 11:45:33.550 AM	10,780	1	2	941	191	11	◆ Fault	449902a9-1b68-497 0-8ddc-8c1c00062f6 b-00002357	No
✗	Jan 25, 2017 11:10:24.991 AM	Jan 25, 2017 11:10:32.740 AM	7,749	13	1	4,335	521	15	◆ Fault	449902a9-1b68-497 0-8ddc-8c1c00062f6 b-0000221a	No
✓	Jan 25, 2017 10:07:39.940 AM	Jan 25, 2017 10:07:47.297 AM	7,357	10	0	2,911	513	15	● Normal	449902a9-1b68-497 0-8ddc-8c1c00062f6 b-00002028	No
✓	Jan 25, 2017 10:07:39.873 AM	Jan 25, 2017 10:07:39.876 AM	3	0	0	3	<1	0	▼ Min Time	449902a9-1b68-497 0-8ddc-8c1c00062f6 b-00002027	No
✓	Jan 25, 2017 10:05:39.113 AM	Jan 25, 2017 10:06:13.204 AM	34,761	20	0	10,053	1,035	9	▲ Max Time	449902a9-1b68-497 0-8ddc-8c1c00062f6	No

INSTANCE DETAILS

JAVA CALL TREE & SNAPSHTOS

Server Request Instance

 [/TheWorldView/faces/WorldNews.jsf](#)

Start Time: Jan 25, 2017 1:34:04.710 PM
 End Time: Jan 25, 2017 1:34:34.449 PM
 Abridged: No (showing all 20 calls)

Type: SERVLET_ADF_UI
 AppServer: amispaa-db-java-stack-jaas-wls-1.compute-amispaa.oraclecloud.internal:9073
 ECID: 449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db

[View Related Logs](#)

RESPONSE TIME
29.74 s

Reason Captured
▲ Max Time

AppServer	14.56%
Database	0.00%
External	85.44%

CALLS
20 total

AppServer	0
Database	0
External	20

INTERNAL ERRORS
0 total

AppServer	0
Database	0
External	0

[Call Tree](#) [Snapshots](#)

Name	Component Type	Tier	Start Time	Response Time (ms)	Self Time (ms)	Latency (ms)	Error	Call Type
▲ /TheWorldView/faces/WorldNews.jsf	SERVLET_ADF_UI	AppServer	1:34:04.710 PM	29,739	4,329	0	0	↔
http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server rss.cnn.com:-1	JAXRS	External	1:34:04.943 PM	229	229	0	0	↔
http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/reuters_GET on remote server 141.144.34.222:80	JAXRS	External	1:34:05.344 PM	253	253	0	0	↔
http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server rss.cnn.com:-1	JAXRS	External	1:34:05.806 PM	225	225	0	0	↔
http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/reuters_GET on remote server 141.144.34.222:80	JAXRS	External	1:34:06.200 PM	267	267	0	0	↔
http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server rss.cnn.com:-1	JAXRS	External	1:34:06.554 PM	224	224	0	0	↔
http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/reuters_GET on remote server 141.144.34.222:80	JAXRS	External	1:34:06.989 PM	255	255	0	0	↔
http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server rss.cnn.com:-1	JAXRS	External	1:34:07.337 PM	229	229	0	0	↔
http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/reuters_GET on remote server 141.144.34.222:80	JAXRS	External	1:34:07.845 PM	265	265	0	0	↔

INSTANCE DETAILS

JAVA CALL TREE & SNAPSHOTS

Server Request Instance

 [/TheWorldView/faces/WorldNews.jsf](#)

Start Time: Jan 25, 2017 1:34:04.710 PM
 End Time: Jan 25, 2017 1:34:34.449 PM
 Abridged: No (showing all 20 calls)

RESPONSE TIME
29.74 s

AppServer: 0.00
 Database: 0.00
 External: 29.74

Call Tree **Snapshots**

Name

- /TheWorldView/faces/WorldNews.jsf
 - http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server
 - http://141.144.34.222:80/TheWorldAtRestService/resources/world
 - GET on remote server 141.144.34.222:80
 - http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server
 - http://141.144.34.222:80/TheWorldAtRestService/resources/world
 - GET on remote server 141.144.34.222:80
 - http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server
 - http://141.144.34.222:80/TheWorldAtRestService/resources/world
 - GET on remote server 141.144.34.222:80
- http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server rss.cnn.com:-1
- http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/reuters_

http://rss.cnn.com/rss/cnn_topstories.rss_GET Snapshots

Method	Class	File	Count
oracle.adf.view.rich.component.rich.data.RichListView\$ListViewBeanWrapper->getProperty	RichListView.java	178	
org.apache.myfaces.trinidad.component.FacesBeanWrapper->getProperty	FacesBeanWrapper.java	61	
org.apache.myfaces.trinidad.component.UIXListView\$RowKeyFacesBeanWrapper->getPrope	UIXListView.java	265	
org.apache.myfaces.trinidad.component.FacesBeanWrapper->getProperty	FacesBeanWrapper.java	61	
org.apache.myfaces.trinidad.bean.FacesBeanImpl->getProperty	FacesBeanImpl.java	69	
org.apache.myfaces.trinidad.component.UIXFacesBeanImpl->getBoundProperty	UIXFacesBeanImpl.java	203	
com.sun.faces.facelets.el.TagValueExpression->getValue	TagValueExpression.java	109	
com.sun.el.ValueExpressionImpl->getValue	ValueExpressionImpl.java	226	
com.sun.el.parser.AstValue->getValue	AstValue.java	203	
com.sun.el.parser.AstValue->getValue	AstValue.java	139	
com.sun.faces.el.DemuxCompositeELResolver->getValue	DemuxCompositeELResolver.java	203	
com.sun.faces.el.DemuxCompositeELResolver->_getValue	DemuxCompositeELResolver.java	176	
javax.el.BeanELResolver->getValue	BeanELResolver.java	362	
java.lang.reflect.Method->invoke	Method.java	498	
sun.reflect.DelegatingMethodAccessorImpl->invoke	DelegatingMethodAccessorImpl.java	43	
sun.reflect.NativeMethodAccessorImpl->invoke	NativeMethodAccessorImpl.java	62	
sun.reflect.NativeMethodAccessorImpl->invoke0	Native		
nl.amis.world.view.beans.NewsRssBean->getRssItems	NewsRssBean.java	63	
nl.amis.world.view.beans.NewsRssBean->prepareRssItems	NewsRssBean.java	70	
nl.amis.world.view.beans.helper.RssInvoker->getRss	RssInvoker.java	33	
com.sun.jersey.api.client.WebResource\$Builder->get	WebResource.java	509	
com.sun.jersey.api.client.WebResource->access\$200	WebResource.java	74	
com.sun.jersey.api.client.WebResource->handle	WebResource.java	682	
com.sun.jersey.api.client.Client->handle	Client.java	652	
com.sun.jersey.client.urlconnection.URLConnectionClientHandler->handle	URLConnectionClientHandler.java	153	

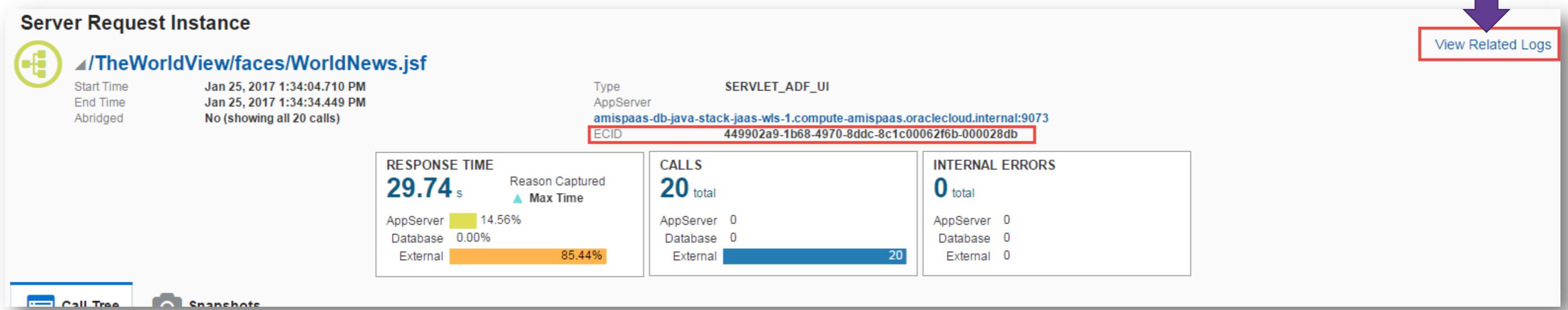
External: 1:34:07.337 PM | 229 | 229 | 0 | ↪

External: 1:34:07.845 PM | 265 | 265 | 0 | ↪

COMPOSITION OF RESPONSE TIME

Name	Component Type	Tier	Start Time	Response Time (ms)	Self Time (ms)	Latency (ms)	Error	Call Type
✓ /TheWorldView/faces/WorldNews.jsf	SERVLET_ADF_UI	AppServer	1:34:04.710 PM	29,739	4,329	0	0	↔
http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server rss.cnn.com:-1	JAXRS	External	1:34:04.943 PM	229	229	0	0	↔
http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/reuters_GET on remote server 141.144.34.222:80	JAXRS	External	1:34:05.344 PM	253	253	0	0	↔
http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server rss.cnn.com:-1	JAXRS	External	1:34:05.806 PM	225	225	0	0	↔
http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/reuters_GET on remote server 141.144.34.222:80	JAXRS	External	1:34:06.200 PM	267	267	0	0	↔
http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server rss.cnn.com:-1	JAXRS	External	1:34:06.554 PM	224	224	0	0	↔
http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/bbc_GET on remote server 141.144.34.222:80	JAXRS	External	1:34:09.653 PM	4,923	4,923	0	0	↔
http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server rss.cnn.com:-1	JAXRS	External	1:34:14.778 PM	227	227	0	0	↔
http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/bbc_GET on remote server 141.144.34.222:80	JAXRS	External	1:34:15.284 PM	4,306	4,306	0	0	↔
http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server rss.cnn.com:-1	JAXRS	External	1:34:19.759 PM	226	226	0	0	↔
http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/bbc_GET on remote server 141.144.34.222:80	JAXRS	External	1:34:20.173 PM	4,304	4,304	0	0	↔
http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server rss.cnn.com:-1	JAXRS	External	1:34:24.586 PM	227	227	0	0	↔
http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/bbc_GET on remote server 141.144.34.222:80	JAXRS	External	1:34:25.170 PM	4,156	4,156	0	0	↔
http://rss.cnn.com/rss/cnn_topstories.rss_GET on remote server rss.cnn.com:-1	JAXRS	External	1:34:29.707 PM	225	225	0	0	↔
http://141.144.34.222:80/TheWorldAtRestService/resources/world-rss/feed/bbc_GET on remote server 141.144.34.222:80	JAXRS	External	1:34:30.281 PM	4,158	4,158	0	0	↔

DRILL DOWN TO ASSOCIATED LOGS FOR SERVER REQUEST INSTANCE – COPY ECID



Server Request Instance

/TheWorldView/faces/WorldNews.jsf

Start Time: Jan 25, 2017 1:34:04.710 PM
End Time: Jan 25, 2017 1:34:34.449 PM
Abridged: No (showing all 20 calls)

Type: SERVLET_ADF_UI
amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal:9073
ECID: 449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db

RESPONSE TIME
29.74 s Reason Captured
AppServer 14.56% ▲ Max Time
Database 0.00%
External 85.44%

CALLS
20 total
AppServer 0
Database 0
External 20

INTERNAL ERRORS
0 total
AppServer 0
Database 0
External 0

Call Tree | Snapshots

View Related Logs

LOG ANALYTICS FOR ENTITIES & TIME RANGE – ECID IS NOT ADDED TO FILTER

Log Explorer: Untitled

+ New Save Open Configuration

x ? 01:29 PM Jan 25, 2017 - 01:39 PM Jan 25, 2017 Run

target: amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal x target: amispaas_server_1 x

Data Visualize Field Summary

Records with Histogram

Entities

- Entity
- Entity Type
- Group
- System

Collection Details

- Label
- Log Entity
- Log Source
- Upload Name

Fields

- Component
- Error ID
- Method
- Module
- Severity
- Thread
- Transaction ID
- User Name
- Weblogic Server
- ECID
- Message ID
- Organization

Display Options

- Show Message Field
- Records per Page 25

Display Fields

- Entity
- Entity Type
- Log Source
- Host Name (Server)
- Severity

Histogram

Records

Time (UTC+1:00) Original Log Content

Showing 1-25 of 476

Time	Original Log Content
Jan 25, 2017, 1:37:35 PM	####<Jan 25, 2017, 12:37:35,83 PM UTC> <Info> <Health> <amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal> <amispaas_server_1> <weblogic.GCMonitor> <><anonymous>> <><449902a9-1b68-4970-8ddc-8c1c00062f6b-00000008> <1485347855083> <[severity-value: 64] [rid: 0:1] [partition-id: 0] [partition-name: DOMAIN]> <BEA-310002> <23% of the total memory in the server is free.> Entity = amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal:9071;amispaas_server_1 Entity Type = WebLogic Server Log Source = FMW WLS Server Logs Severity = Info
Jan 25, 2017, 1:37:35 PM	####<Jan 25, 2017, 12:37:35,83 PM UTC> <Info> <Health> <amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal> <amispaas_server_1> <weblogic.GCMonitor> <><anonymous>> <><449902a9-1b68-4970-8ddc-8c1c00062f6b-00000008> <1485347855083> <[severity-value: 64] [rid: 0:1] [partition-id: 0] [partition-name: DOMAIN]> <BEA-310002> <23% of the total memory in the server is free.> Entity = amispaas_server_1 Entity Type = WebLogic Server Log Source = FMW WLS Server Logs Severity = Info
Jan 25, 2017, 1:34:35 PM	####<Jan 25, 2017, 12:34:35,81 PM UTC> <Info> <Health> <amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal> <amispaas_server_1> <weblogic.GCMonitor> <><anonymous>> <><449902a9-1b68-4970-8ddc-8c1c00062f6b-00000008> <1485347675081> <[severity-value: 64] [rid: 0:1] [partition-id: 0] [partition-name: DOMAIN]> <BEA-310002> <34% of the total memory in the server is free.> Entity = amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal:9071;amispaas_server_1 Entity Type = WebLogic

FILTER ON ECID

Log Explorer: Untitled

* target: amispaas-db-java-stack-jaas-wls-1.compute-amisp... target: amispaas_server_1

Data Visualize Field Summary

Search Fields

Entities

- Entity
- Entity Type
- Group
- System

Collection Details

- Label
- Log Entity
- Log Source
- Upload Name

Fields

- Component
- Error ID
- Method
- Module
- Severity
- Thread
- Transaction ID
- User Name
- Weblogic Server

ECID

ECID (35 available)

449902a9-1b68-4970-8ddc-8c

Show Available

ECID	Count	Trend
449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db	72	
1.449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db;kzne0djnvnkj4mjn4plhvmlh3knjivlgs5cet9fc05dem0	2	
1.449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db;k_ne0djnvnkj4mjn4plhvmlh3knjivlgs5cet9fc05dem0	2	
1.449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db;kaje0djnvnkj4mjn4plhvmlh3knjivlgs5cet9fc05dem0	2	
1.449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db;kbne0djnvnkj4mjn4plhvmlh3knjivlgs5cet9fc05dem0	2	
1.449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db;k^je0djnvnkj4mjn4plhvmlh3knjivlgs5cet9fc05dem0	2	
1.449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db;kdne0djnvnkj4mjn4plhvmlh3knjivlgs5cet9fc05dem0	2	
1.449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db;kfne0djnvnkj4mjn4plhvmlh3knjivlgs5cet9fc05dem0	2	

(1-11 of 11 items)

Apply Filter Cancel

Entity – amispaas-db-java-stack-jaas-wls-1.compute-amispas.oracle.com

FILTER ON SEVERITY IS WARNING

Log Explorer: Untitled

ECID = '449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db'

New Save Open Configuration Run 01:34 PM Jan 25, 2017 - 01:35 PM Jan 25, 2017

target: amispaas-db-java-stack-jaas-wls-1.compute-amisp... target: amispaas_server_1

Data

Search Fields

Entities

- Entity
- Entity Type
- Group
- System

Collection Details

- Label
- Log Entity
- Log Source
- Upload Name

Fields

- Component
- Error ID
- Module
- Severity
- Thread
- ECID | Clear
- Message ID
- Organization
- OS Process ID
- Problem Key
- more...

Visualize

Records with Histogram

Display Options

- Show Message Field
- Records per Page 25

Display Fields

- Entity
- Entity Type
- Log Source
- Host Name (Server)
- Severity

Group by

Drop field here

Field Summary

Visible Fields (6) | Hidden Fields (0)

Entity	Entity Type	Log Source	Host Name (Server)
amispaas-db-java-stack-jaas-wls-1.co...	WebLogic Server	FMW WLS Server Diagnostic Logs	No log data to display
notification	Entity Type	Log Source	Host Name (Server)
warning	449902a9-1b68-4970-8ddc-8c1c0006...		
trace	ECID		

Histogram

Records

80
60
40
20
0

1:34 PM
25 Jan 2017

CLUSTER LOG ENTRIES

Log Explorer: Untitled

ECID = '449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db' and Severity = warning

New Save Open Configuration

target: amispaas-db-java-stack-jaas-wls-1.compute-amisp... target: amispaas_server_1

Data Visualize Field Summary

Records with Histogram

Display Options

Show Message Field Records per Page 25

Display Fields

Entity Entity Type Log Source Host Name (Server) Severity

Group System

Collection Details

Label Log Entity Upload Name

Fields

Component Error ID Module Severity | Clear Thread ECID | Clear Message ID Organization OS Process ID Problem Key more...

Jan 25, 2017, 1:34:30.434+00:00 [amispaas_server_1] [WARNING] [] [nl.amis.world.rest.rss.RSSFeedParser] [tid: [ACTIVE].ExecuteThread: '12' for queue: 'weblogic.kernel.Default (self-tuning)'] [userId: <anonymous>] [ecid: 449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db,0:20] [APP: TheWorld_Project1_TheWorld] [partition-name: DOMAIN] [tenant-name: GLOBAL] Built in intentional delay of 4 seconds when fetching BBC feed. No particular reason, just to see whether you detectives would find it.

Entity = amispaas-db-java-stack-jaas-wls-1.compute-amispaa... | Entity Type = WebLogic Server | Log Source = FMW WLS Server Diagnostic Logs | Severity = WARNING

Jan 25, 2017, 1:34:29 PM [2017-01-25T12:34:29.435+00:00] [amispaas_server_1] [WARNING] [] [nl.amis.world.view.beans.helper.RssInvoker] [tid: [ACTIVE].ExecuteThread: '39' for queue: 'weblogic.kernel.Default (self-tuning)'] [userId: <anonymous>] [ecid: 449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db,0] [APP: TheWorld_Project1_TheWorld] [partition-name: DOMAIN] [tenant-name: GLOBAL] [DSID: 0000LbLb3jKdkZALRa5Eid1OXjHI00000g] This method should not be invoked; this is dead code. This call is a mistake that should be corrected

Entity = amispaas-db-java-stack-jaas-wls-1.compute-amispaa... | Entity Type = WebLogic Server | Log Source = FMW WLS Server Diagnostic Logs | Severity = WARNING

Jan 25, 2017, 1:34:25 PM [2017-01-25T12:34:25.323+00:00] [amispaas_server_1] [WARNING] [] [nl.amis.world.rest.rss.RSSFeedParser] [tid: [ACTIVE].ExecuteThread: '4' for queue: 'weblogic.kernel.Default (self-tuning)'] [userId: <anonymous>] [ecid: 449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db,0:18] [APP: TheWorld_Project1_TheWorld] [partition-name: DOMAIN] [tenant-name: GLOBAL] Built in intentional delay of 4 seconds when fetching BBC feed. No particular reason, just to see whether you detectives would find it.

Entity = amispaas-db-java-stack-jaas-wls-1.compute-amispaa... | Entity Type = WebLogic Server | Log Source = FMW WLS Server Diagnostic Logs | Severity = WARNING

Jan 25, 2017, 1:34:24 PM [2017-01-25T12:34:24.480+00:00] [amispaas_server_1] [WARNING] [] [nl.amis.world.view.beans.helper.RssInvoker] [tid: [ACTIVE].ExecuteThread: '39' for queue: 'weblogic.kernel.Default (self-tuning)'] [userId: <anonymous>] [ecid: 449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db,0] [APP: TheWorld_Project1_TheWorld] [partition-name: DOMAIN] [tenant-name: GLOBAL] [DSID: 0000LbLb3jKdkZALRa5Eid1OXjHI00000g] This method should not be invoked; this is dead code. This call is a mistake that should be corrected

Showing 1-16 of 16

AFTER CLUSTERING, THREE GROUPS OF MESSAGES REMAIN. ONE IS VERY TELLING

Log Explorer: Untitled

ECID = '449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db' and Severity = warning | cluster

New Save Open Configuration

target: amispaas-db-java-stack-jaas-wls-1.compute-amisp... target: amispaas_server_1

Data Visualize Cluster Display Options Records per Page 25

Records 18 15 12 9 6 3 0 1:34 PM 25 Jan 2017 1:35 PM

Show Similar Trends Show Records ID Log Source

ID	Log Source
1	FMW WLS Server Diagnostic Logs
2	FMW WLS Server Diagnostic Logs
3	FMW WLS Server Diagnostic Logs

3 clusters

Trend Count Sample Message

- 1 Forcing valign="top" (instead of "stretch") because gridCell id="gc2" in panelGridLayout clientId="pgl1" has multiple rendered children. It is not feasible to stretch multiple children. Instead use another component like panelSplitter that lets you divide the space for multiple children or simply surround these children with a panelGroupLayout that uses layout="scroll".
- 2 Built in intentional delay of 4 seconds when fetching BBC feed. No particular reason, just to see whether you detectives would find it.
- 3 This method should not be invoked; this is dead code. This call is a mistake that should be corrected

DRILL DOWN TO FIND THE CODE LOCATION

Visualize

Records with Histogram

Display Options

Show Message Field

Records per Page 25 ▾

Display Fields

- Entity
- Entity Type
- Log Source
- Host Name (Server)
- Severity
- Module

Group by

Drop field here

Field Summary

Histogram

Records

18 19 20 21 22 23 24 25

Jan 2017

< Back to Cluster

Showing 1-5 of 5

Time (UTC+1:00)	Original Log Content
Jan 25, 2017, 1:34:30 PM	[2017-01-25T12:34:30.434+00:00] [amispaas_server_1] [WARNING] [] [nl.amis.world.rest.rss.RSSFeedParser] [tid: [ACTIVE].ExecuteThread: '12' for queue: 'weblogic.kernel.Default (self-tuning)'] [userId: <anonymous>] [ecid: 449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db,0:20] [APP: TheWorld_Project1_TheWorld] [partition-name: DOMAIN] [tenant-name: GLOBAL] Built in intentional delay of 4 seconds when fetching BBC feed. No particular reason, just to see whether you detectives would find it. Entity = amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal:9071:amispaas_server_1 Entity Type = WebLogic Server Log Source = FMW WLS Server Diagnostic Logs Severity = WARNING Module = nl.amis.world.rest.rss.RSSFeedParser
Jan 25, 2017, 1:34:25 PM	[2017-01-25T12:34:25.323+00:00] [amispaas_server_1] [WARNING] [] [nl.amis.world.rest.rss.RSSFeedParser] [tid: [ACTIVE].ExecuteThread: '4' for queue: 'weblogic.kernel.Default (self-tuning)'] [userId: <anonymous>] [ecid: 449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db,0:18] [APP: TheWorld_Project1_TheWorld] [partition-name: DOMAIN] [tenant-name: GLOBAL] Built in intentional delay of 4 seconds when fetching BBC feed. No particular reason, just to see whether you detectives would find it. Entity = amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal:9071:amispaas_server_1 Entity Type = WebLogic Server Log Source = FMW WLS Server Diagnostic Logs Severity = WARNING Module = nl.amis.world.rest.rss.RSSFeedParser
Jan 25, 2017, 1:34:20 PM	[2017-01-25T12:34:20.473+00:00] [amispaas_server_1] [WARNING] [] [nl.amis.world.rest.rss.RSSFeedParser] [tid: [ACTIVE].ExecuteThread: '12' for queue: 'weblogic.kernel.Default (self-tuning)'] [userId: <anonymous>] [ecid: 449902a9-1b68-4970-8ddc-8c1c00062f6b-000028db,0:16] [APP: TheWorld_Project1_TheWorld] [partition-name: DOMAIN] [tenant-name: GLOBAL] Built in intentional delay of 4 seconds when fetching BBC feed. No particular reason, just to see whether you detectives would find it.

TOPOLOGY

Log Explorer: Untitled

New Save Open Configuration

group: The_World (/MhTsj4ckHPp5eXNdOZHJLv608g=) 01:34 PM Jan 25, 2017 - 01:35 PM Jan 25, 2017 Run

Data [Close]

Search Fields

Entities

- Entity
- Entity Type
- Group | Clear
- System

Collection Details

- Label
- Log Entity
- Log Source
- Upload Name

Visualize [Close]

Topology

Display Fields

- Entity
- Entity Type
- Log Source
- Host Name (Server)
- Severity

Topology

WebLogic Server

Host (Linux)

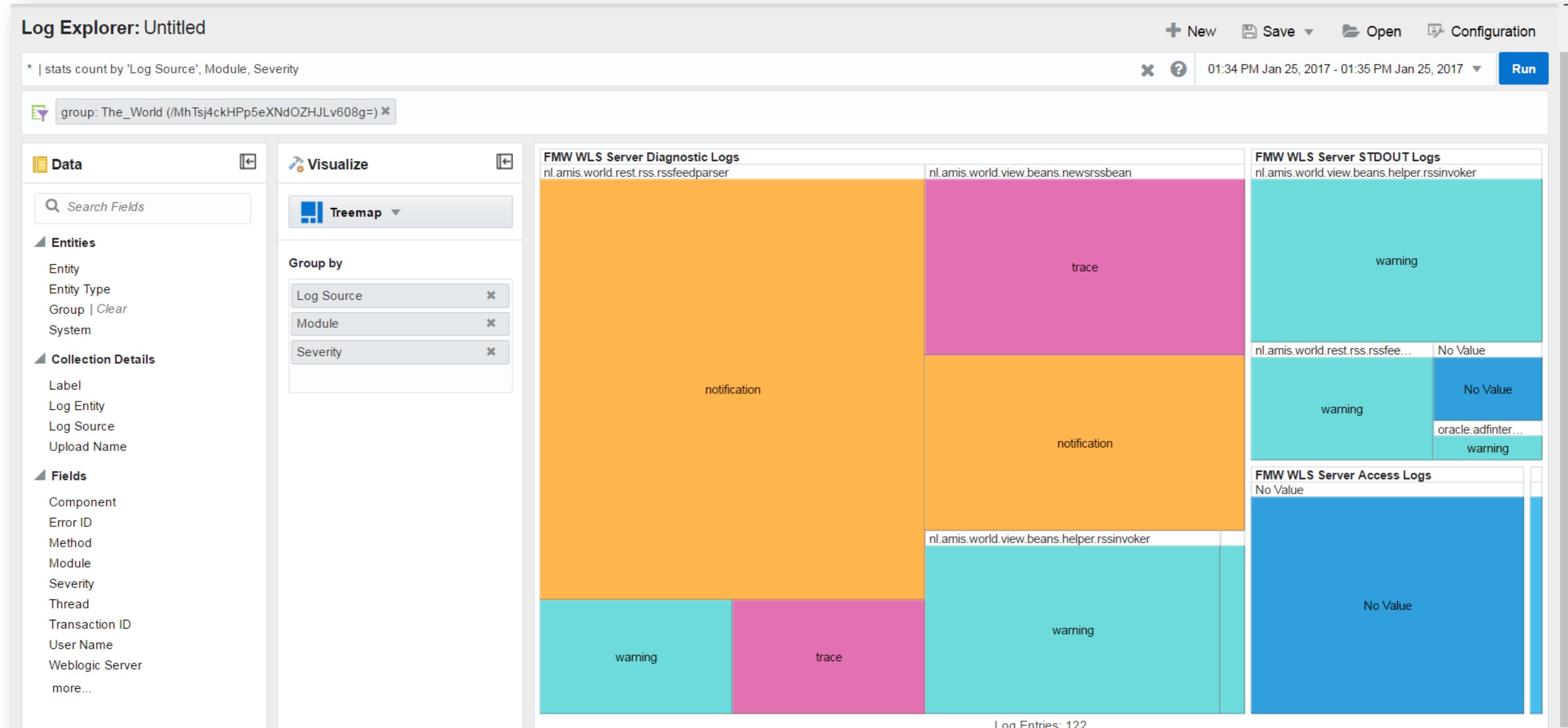
1

Showing 1-25 of 122

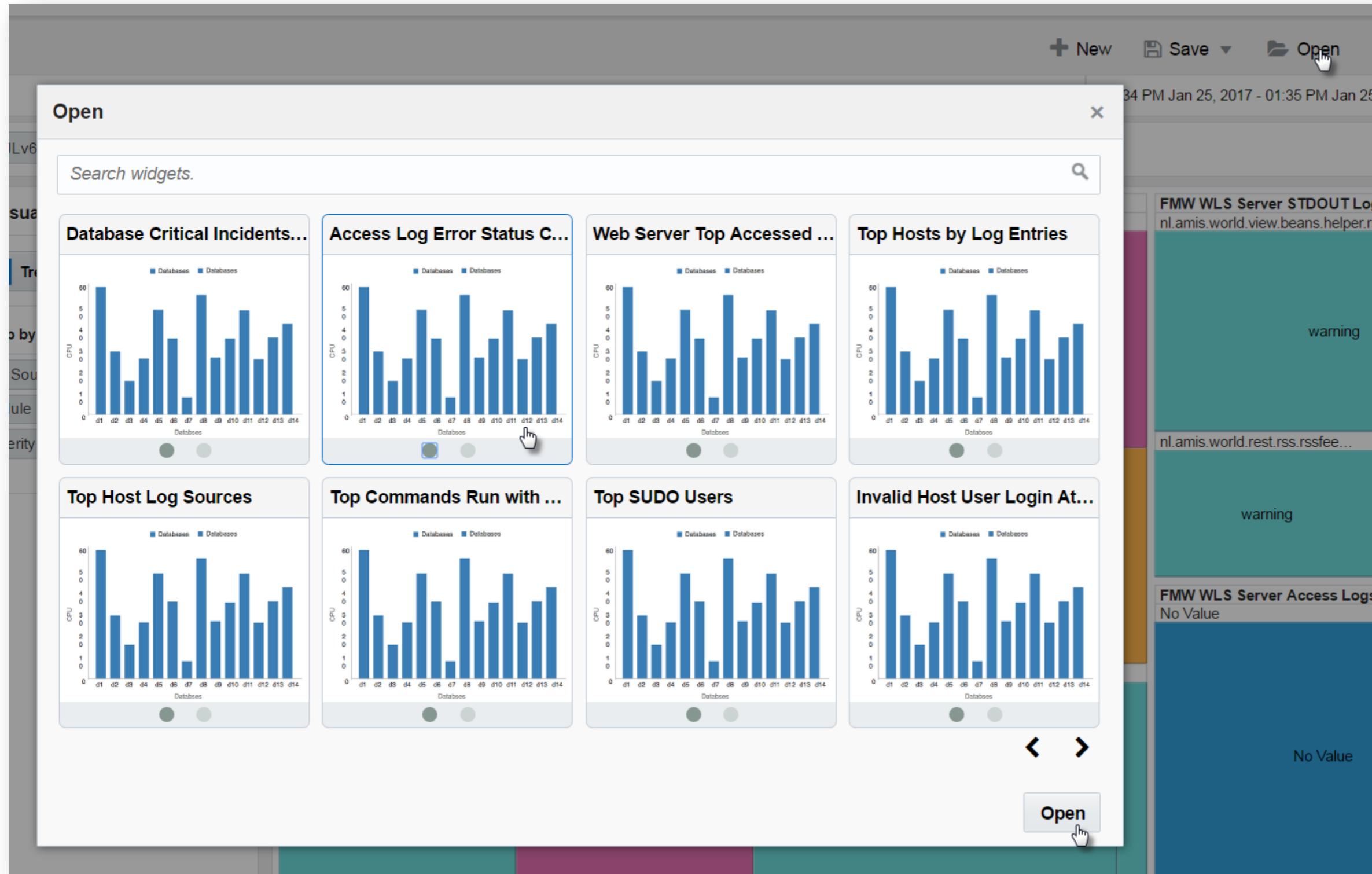
Time (UTC+1:00) Original Log Content

Jan 25, 2017, 1:34:35 PM #####<Jan 25, 2017, 12:34:35,81 UTC> <Info> <Health> <amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal> <amispaas_server_1> <weblogic.GCMonitor> <><anonymous>> <><449902a9-1b68-4970-8ddc-8c1c00062f6b-00000008> <1485347675081> <[severity-value: 64] [rid: 0:1] [partition-id: 0] [partition-name: DOMAIN]> <BEA-310002> <34% of the total memory in the server is free.>

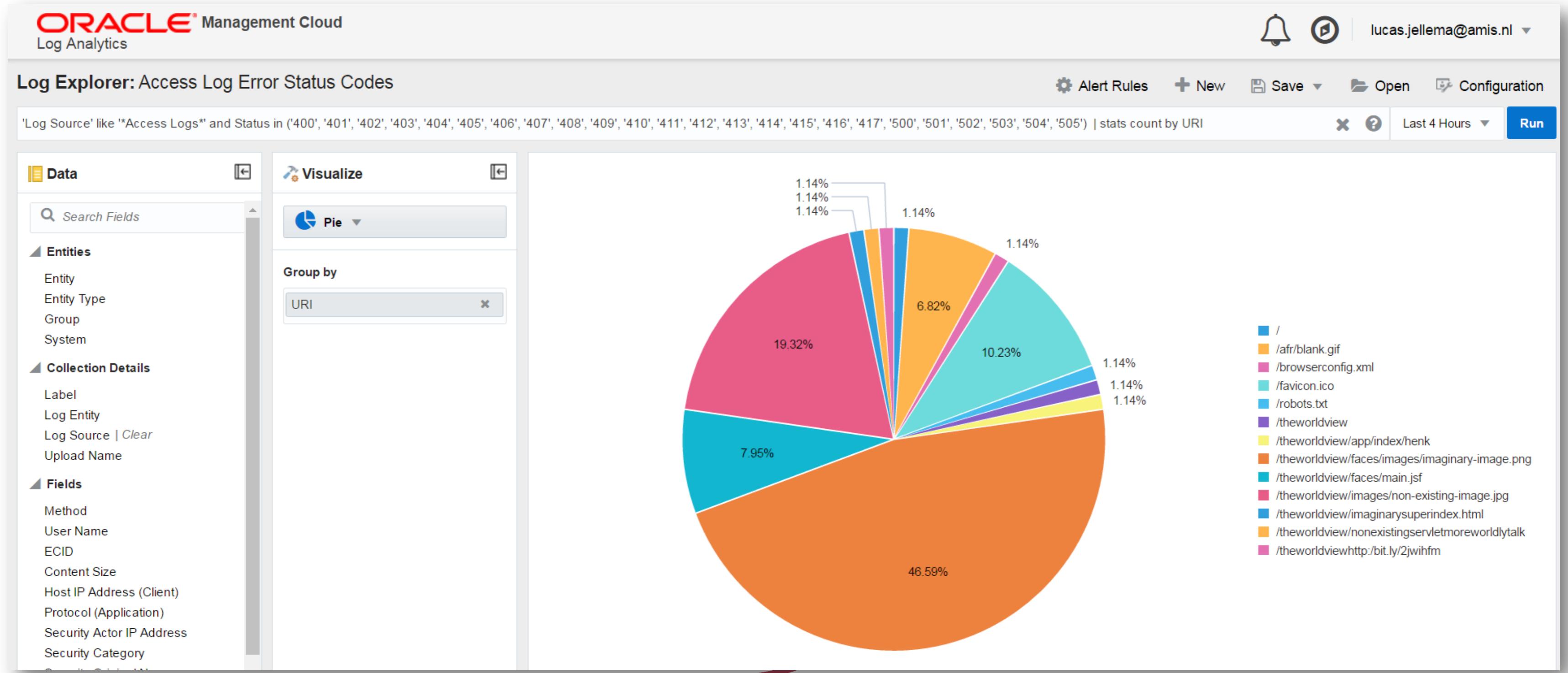
TREEMAP – MAXIMUM THREE GROUPING ATTRIBUTES



USE OUT OF THE BOX WIDGET TO FIND MISSING RESOURCES/FAILED HTTP REQUESTS



IDENTIFY MOST FREQUENTLY MISSED RESOURCES



USE CLUSTERING FOR A MORE DETAILED INSIGHT – AND SEARCH FOR A REASON

Log Explorer: Access Log Error Status Codes

'Log Source' like '*Access Logs*' and Status in ('400', '401', '402', '403', '404', '405', '406', '407', '408', '409', '410', '411', '412', '413', '414', '415', '416', '417', '500', '501', '502', '503', '504', '505') | cluster

Last 4 Hours Run

Data

Search Fields

Entities

- Entity
- Entity Type
- Group
- System

Collection Details

- Label
- Log Entity
- Log Source | Clear
- Upload Name

Fields

- Method
- User Name
- ECID
- Content Size
- Host IP Address (Client)
- Protocol (Application)
- Security Actor IP Address
- Security Category
- Security Original Name
- Security Resource Name
- Security Resource Type
- Security Result

Visualize

Cluster

Display Options

Records per Page 25

Records

1:30 PM 1:45 PM 2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM

25 Jan 2017

Show Similar Trends Show Records

13 clusters

Trend	Count	Sample Message	ID	Log Source
	82	2017-01-25 13:11:19 0.006 1164 GET /TheWorldView/faces/images/imaginary-image.png 404 "449902a9-1b68-4970-8ddc-8c1c00062f6b-00002a23"	13	FMW WLS Server Access Logs
	34	2017-01-25 12:32:29 0.001 1164 GET /TheWorldView/images/non-existing-image.jpg 404 "449902a9-1b68-4970-8ddc-8c1c00062f6b-000028c5"	12	FMW WLS Server Access Logs
	18	2017-01-25 15:35:11 0.001 1164 GET /favicon.ico 404 - - -	11	FMW WLS Server Access Logs
	14	2017-01-25 12:27:38 0.001 1164 GET /TheWorldView/faces/main.jsf 404 - - -	10	FMW WLS Server Access Logs
	12	2017-01-25 12:45:06 0.001 1164 GET /afr/blank.gif 404 - - -	9	FMW WLS Server Access Logs
	2	2017-01-25 13:27:02 0.0 1164 GET /robots.txt 404 - - -	6	FMW WLS Server Access Logs

CREATE ALERT RULES TO SEND NOTIFICATIONS FOR ‘NOTEWORTHY EVENTS’

- Alerts can be created on APM metrics and Log Analytics findings
 - Against any “saved search” in Log Analytics
- Alerts can send notifications – currently only email
 - WebHook among others options were announced

ORACLE® Management Cloud

Update Alert Rule

* Name

Add description

Conditions

Metric	Unit	Operator	Critical Threshold	Warning Threshold	Actions
Average Page Response Time (Over last hour)	ms	>	4000	2000	

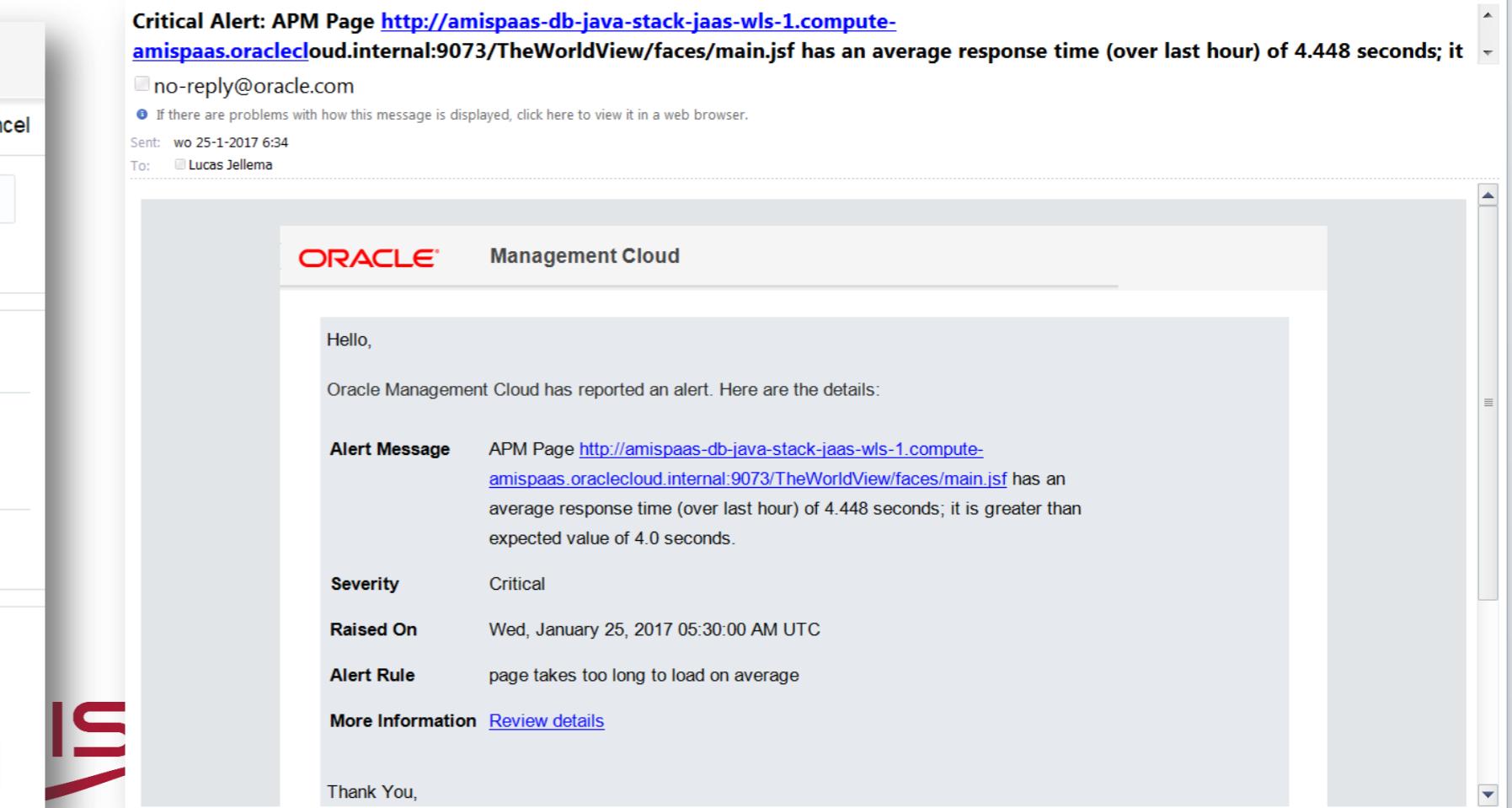
+ Add Condition

E-mail Notification

ⓘ E-mail notifications will be sent when the alert is first raised, worsens in severity and is closed. Multiple e-mail addresses should be separated by commas.

Addresses *

Save Cancel



CREATE LOG ANALYTICS BASED ALERT RULE FOR SAVED SEARCH

The screenshot shows the Oracle Management Cloud Log Analytics interface. The top navigation bar includes the Oracle logo, user information (lucas.jellema@amis.nl), and a bell icon. The main title is "Log Explorer: NullPointerException". The "Alert Rules" tab is selected in the top menu. A modal window titled "Edit Alert Rule" is open, showing the configuration for a rule named "NullPointerException Rule". The rule uses "Result Count" as the metric, with a warning threshold of 2 and a critical threshold of 3. The "Create Alert Rule" button is visible at the bottom right of the modal. The background shows a table of existing alert rules.

Rule Name	Metric	Warning Threshold	Critical Threshold
NullPointerException Rule	Result Count	2	3

Edit Alert Rule

Search Name: NullPointerException

Search Description: [no description]

* Rule Name: NullPointerException Rule

Rule Description:

* Results: Operator > Warning Threshold 2 Critical Threshold 3

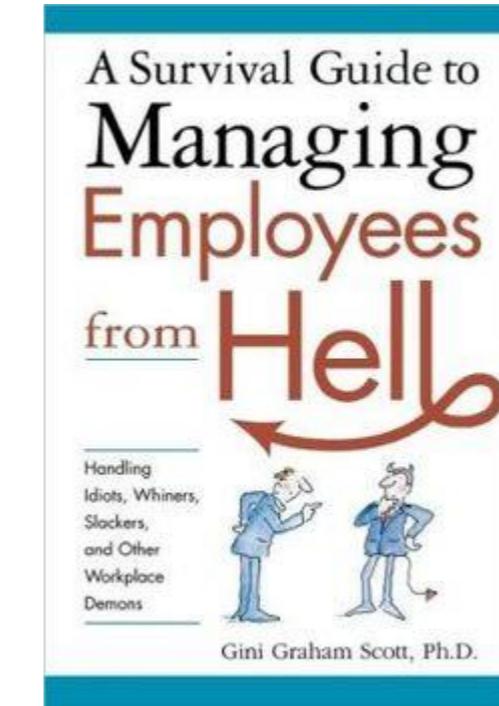
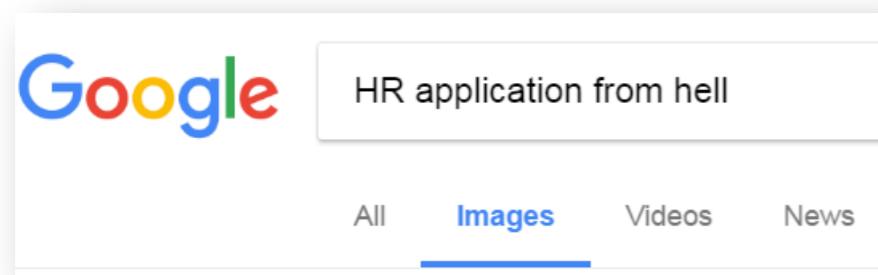
* Schedule Interval: 1 hours

* Email Notification: frank.houweling@amis.nl

Send email notifications when the alert is raised.
Separate multiple emails by commas.

Save Cancel

DEMO OF THE HR APPLICATION FROM HELL

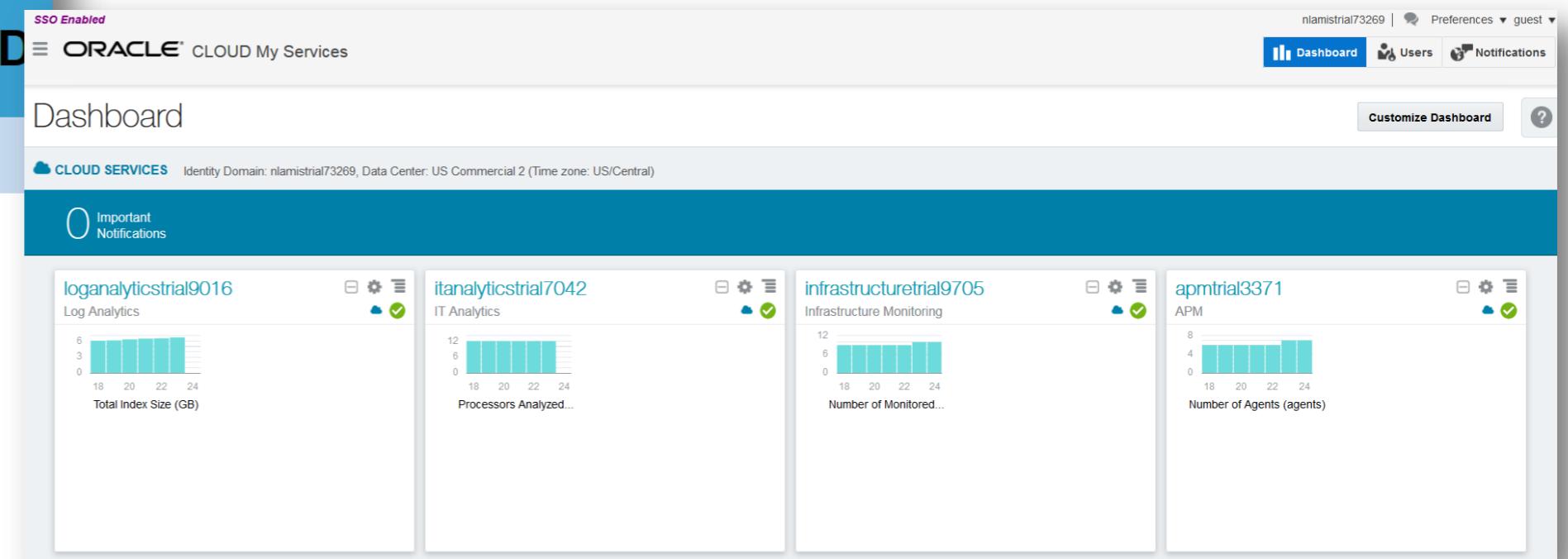
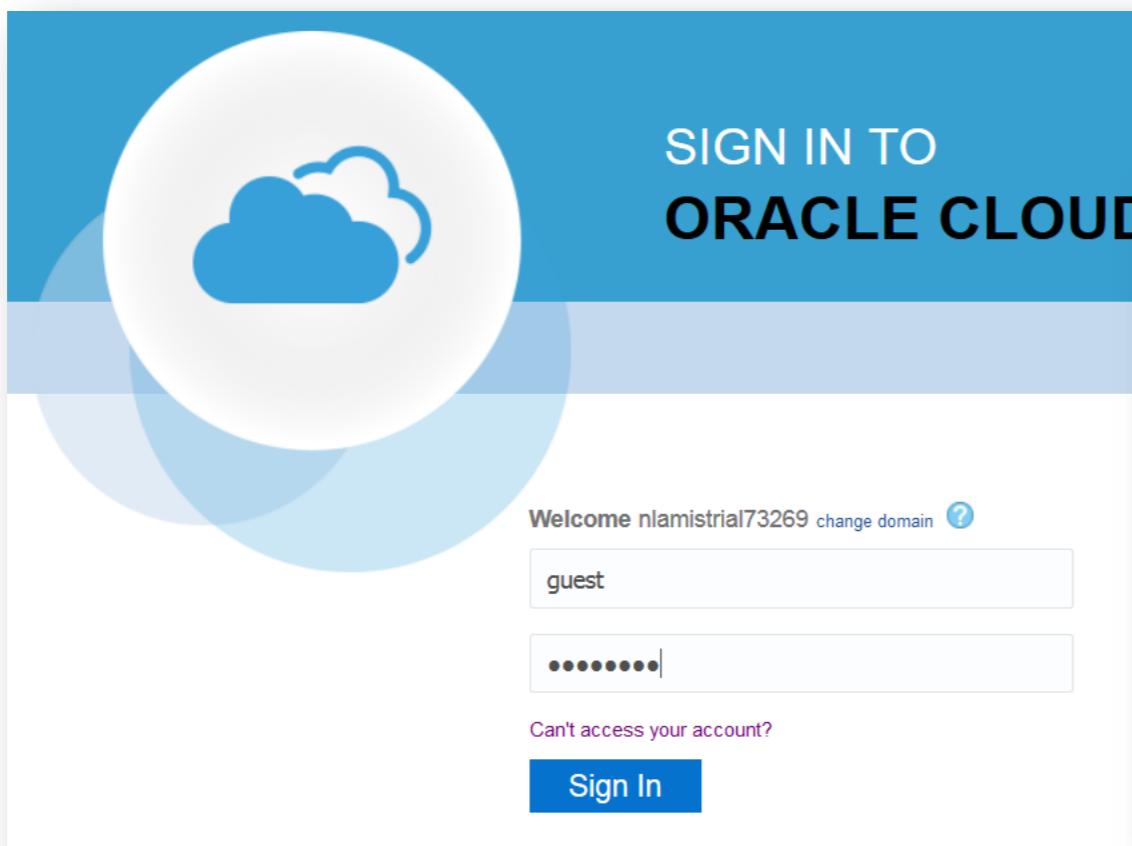
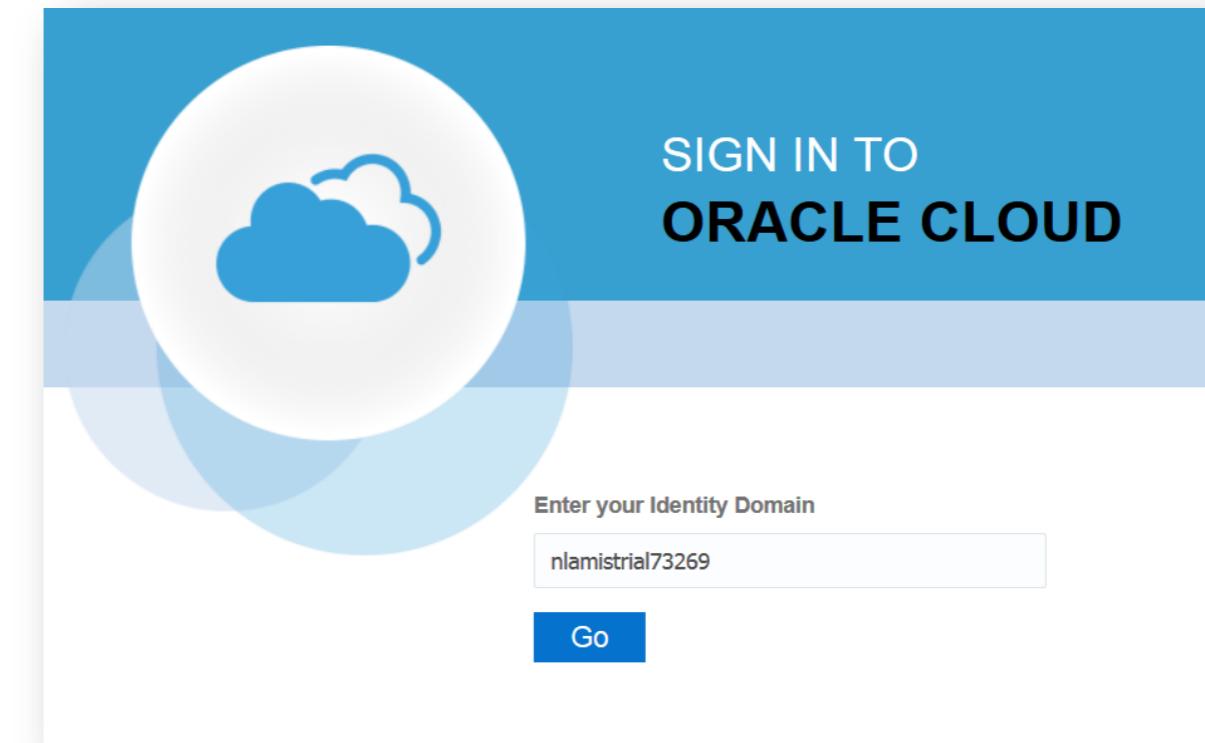


No one is nicer than I am.

There was once...
But I took care of that.

HANDSON INSTRUCTIONS

- URL for OMC environment:
 - <http://bit.ly/2jwlHFm>
 - Identity Domain = **nlamistrial73269**
- Username and Password for Oracle Management Cloud:
 - **guest/OMCamis1**



HANDSON INSTRUCTIONS

- Demo Application The World View is at:
 - <http://bit.ly/2jRfs0O>
- The application's resources are in GitHub:
 - <https://github.com/lucasjellema/APM-Demo-App-WorldView>
 - <http://bit.ly/2k31cEY>

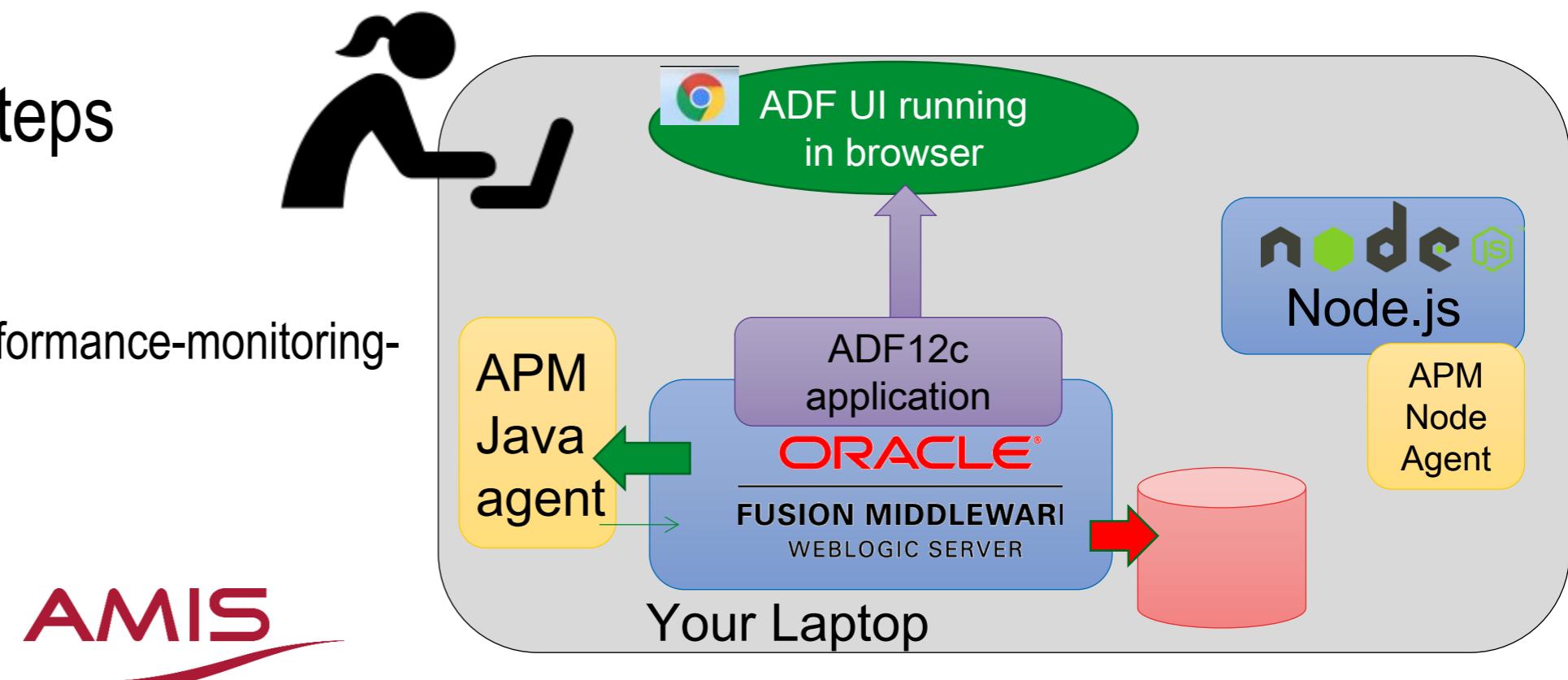


THE HUNT IS ON...

- The application source code has several malfunctions
 - Database delays for specific records
 - Failure to search countries for a specific filter value
 - Periodic, semi-random delays in servlet worldlytalk
 - Lacking resources – servlets & images
 - Exceptions thrown in processing requests
 - managed beans, servlets, ADF BC etc.
 - Calls to dead code – deprecated stuff that should not be invoked anymore

BONUS LAB: DEPLOY APM AGENT ON YOUR LOCAL ENVIRONMENT

- APM Agent can be configured on WebLogic and other Java EE servers, Node.js, and .Net
 - For example on Integrated WebLogic Server in JDeveloper
 - Agent can be configured in VMs and Docker Container
 - Agent is configured with Registration Key for the OMC instance it should publish metrics to
- This blog article describes the steps you should go through:
 - <https://technology.amis.nl/2016/12/14/oracle-management-cloud-application-performance-monitoring-for-java-ee-adf-soa-suite-applications/>



BONUS LAB: DEPLOY APM AGENT ON YOUR LOCAL ENVIRONMENT

- In OMC instance on Agents Tab
 - Download AgentInstaller
 - Get hold of Registration key
- Install APM agent on target machine
- Configure APM agent in WebLogic startup script
- (re)start WebLogic Servers
- Note: even more interesting APM metrics if the WebLogic Domain runs SOA Suite

BONUS LAB: DEPLOY APM AGENT ON YOUR LOCAL ENVIRONMENT

The screenshot shows the Oracle Management Cloud Agents interface. At the top, there's a navigation bar with icons for Home, Cloud Services, Visual Analyzers, and Administration. The Administration section has a dropdown menu with options like Administration, Agents (which is currently selected), and Alert Rules. On the left, a sidebar lists Gateways, Data Collectors, Cloud Agents, APM Agents, and Registration Keys (which is selected). The main content area displays 'Registration Keys' with a form to enter a name and registration limit. It also shows existing keys: 'OnboardingFirstKey' (Status: valid, Maximum: 30, Current Usage: Data Collectors 1, Gateways 2, Agents 5, APM Agents 7, Key Value: RMxMm7chywi-J-VZ7_UfxY5XUU). Below this, another key is listed: 'Name: OnboardingFirstKey, Created Date: 12/11/16 10:29 AM, Key Value: RUD62gZxa9eeeJrq6mnxsxWpj'. To the right, there's a 'Download' section with information about Oracle Management Cloud Agents and a download button. A tooltip for the 'Agents' link in the top navigation bar says 'Manage agents for your Oracle Management Cloud environment'.

Oracle Management Cloud Agents

Registration Keys

Enter Name to identify this Key

* Name Registration Limit Create New Key

Name : OnboardingFirstKey
Created Date : 12/11/16 10:29 AM
Key Value : RMxMm7chywi-J-VZ7_UfxY5XUU

Status : valid
Maximum : 30
Current Usage: Data Collectors 1, Gateways 2, Agents 5, APM Agents 7

Oracle Management Cloud Agents

Download

Registration keys are required to configure your software
View available keys or create a new one

Learn more

Gateways
Data Collectors
Cloud Agents
APM Agents
Registration Keys
Download

Download

Oracle Management Cloud Agents are deployed to your hosts, Oracle Enterprise Manager Cloud Control repository, and Weblogic servers to monitor your enterprise applications. The Agent can be used in different modes, APM, Gateway, Data Collector, or Standard.

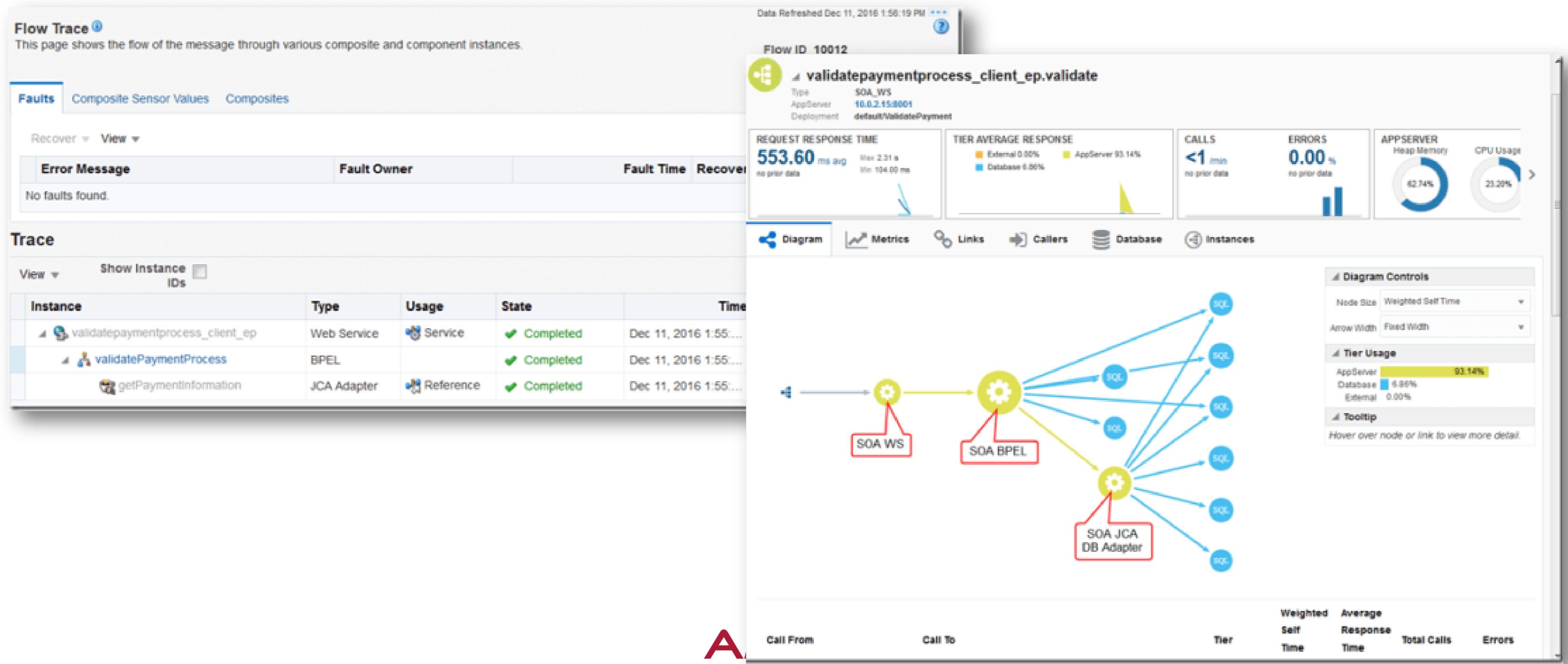
Deploy the Gateway on a host that has internet access to Oracle Management Cloud. The Gateway serves as a proxy between the Oracle Management Cloud and all other management cloud agents.

The APM agent uploads performance monitoring data for your Fusion Middleware enterprise applications.

Deploy the Data Collector on the host that has SQL and SSH access to the Oracle Management Repository. The Data Collector reads data from the repository and uploads to Oracle Management Cloud.

The Cloud Agent collects data from EM Cloud Control managed targets. You install this agent on all hosts for which you would like to analyze data, database performance data or Fusion Middleware performance data. Data will be uploaded to Oracle Cloud via the Gateway.

RUN APM AGENT AGAINST WEBLOGIC DOMAIN WITH SOA SUITE RUNNING SCA SERVICE COMPONENTS



DRILL DOWN TO THE JDBC CALL FROM THE DATABASE ADAPTER

The screenshot illustrates a performance monitoring interface for a Java application. The top navigation bar includes tabs for Diagram, Metrics, Links, Callers, Database, and Instances. The left panel displays a call tree diagram where a green gear icon (representing a SOA_JCA adapter) has multiple arrows pointing to blue SQL icons. A tooltip on the right provides detailed metrics for one of these calls:

```

Diagram Controls: Node Size: Weighted Self Time, Arrow Width: Fixed Width
Tier Usage: AppServer 93.14%, Database 6.86%, External 0.00%
Tooltip: getPaymentInformation.getPaymentInformationSelect
Type: SOA_JCA, Tier: AppServer, AppServer: 10.0.2.15:8001, WebLogic Server
Calls: 5, Weighted Self Time: 74.00 ms, Avg Self Time: 74.00 ms, Avg Response Time: 94.00 ms
  
```

The bottom section shows a table of call details:

Call From	Call To	Tier	Weighted Self Time (ms)	Average Response Time (ms)	Total Calls	Errors
getPaymentInformation.getPaymentInformationSelect	executePrepStmt(select card_num, expire_date, daily_limit, current_limit from e2e_1201_payment_info where(card_num=?)) jdbc:oracle:thin:@/loc alhost:1521/ORCL.ORACLE.COM	Database	3	3	12	0%

A modal window titled "Selected Object" displays the specific JDBC call:

```

Selected Object
executePrepStmt(select card_num, expire_date, daily_limit, current_limit from e2e_1201_payment_info where(card_num=?))||jdbc:oracle:thin:@/loc alhost:1521/ORCL.ORACLE.COM
  
```

The right panel also shows tier usage statistics:

```

Diagram Controls: Node Size: Weighted Self Time, Arrow Width: Fixed Width
Tier Usage: AppServer 6.87%, Database 6.87%, External 0.00%
Selected Object: executePrepStmt(select card_num, expire_date, daily_limit, current_limit from e2e_1201_payment_info where(card_num=?))||jdbc:oracle:thin:@/loc alhost:1521/ORCL.ORACLE.COM
Type: JDBC, Tier: Database
Calls: 12, Weighted Self Time: 3.08 ms, Avg Self Time: 3.08 ms, Avg Response Time: 3.25 ms
  
```

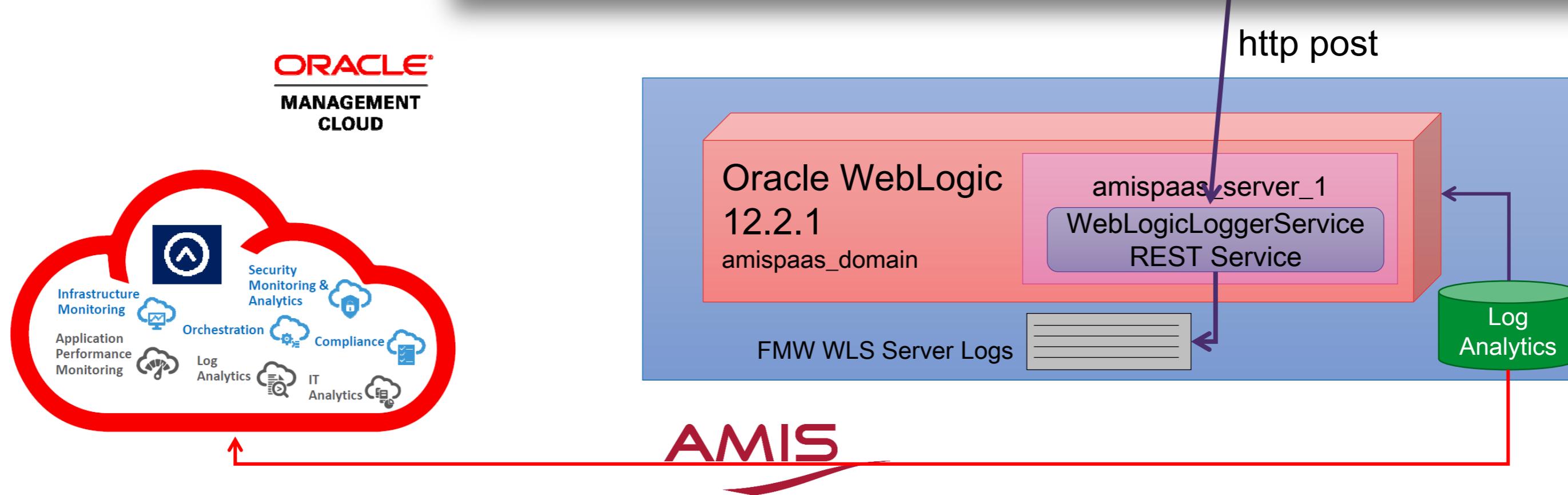
BONUS LAB: REST SERVICE TO POST MESSAGES TO LOG ANALYTICS

POST <http://141.144.34.222:80/WebLogicLoggerService/resources/logger/bulklog>

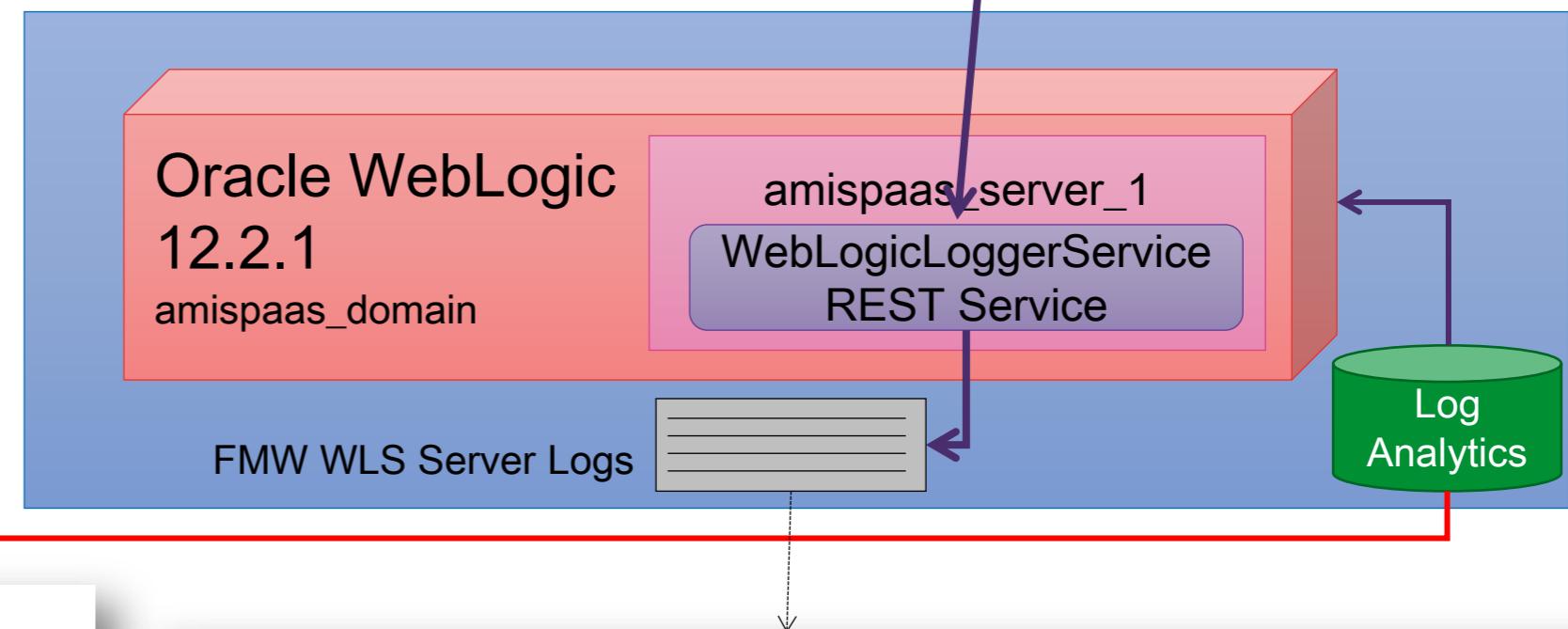
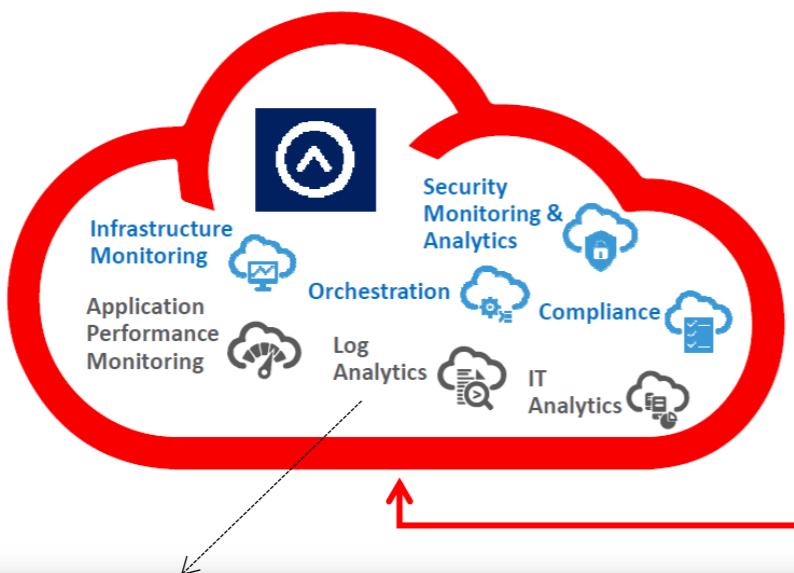
Authorization Headers (1) Body ● Pre-request Script Tests

form-data x-www-form-urlencoded raw binary Text ▾

```
1 {  
2   "logLevel" : "warn"  
3   , "module" : "bulklogging from the other side"  
4   , "messages" : [ {"message" : "special warning from external app", "logLevel" : "warn"}  
5       , {"message" : "OMC event at AMIS", "logLevel" : "debug"}  
6       , {"message" : "what if the application does not produce a log file that Log Analytics knows how to process?"}  
7   ]  
8 }
```



BONUS LAB: REST SERVICE TO POST MESSAGES TO LOG ANALYTICS



Time (UTC+1:00)	Original Log Content
Jan 25, 2017, 9:14:12 PM	####<Jan 25, 2017, 8:14:12,42 PM UTC> <Info> <bulklogging from the other side> <amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal> <amispaas_server_1> <[ACTIVE] ExecuteThread: '13' for queue: 'weblogic.kernel.Default (self-tuning)'> <<anonymous>> <> <449902a9-1b68-4970-8ddc-8c1c00062f6b-000033d0> <1485375252042> <[severity-value: 64] [rid: 0] [partition-id: 0] [partition-name: DOMAIN]> <BEA-000000> <Information on OMC event at AMIS> Entity = amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal;9071;amispaas_server_1 Entity Type = WebLogic Server Log Source = FMW WLS Server Logs Severity = Info
Jan 25, 2017, 9:14:12 PM	####<Jan 25, 2017, 8:14:12,42 PM UTC> <Info> <bulklogging from the other side> <amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal> <amispaas_server_1> <[ACTIVE] ExecuteThread: '13' for queue: 'weblogic.kernel.Default (self-tuning)'> <<anonymous>> <> <449902a9-1b68-4970-8ddc-8c1c00062f6b-000033d0> <1485375252042> <[severity-value: 64] [rid: 0] [partition-id: 0] [partition-name: DOMAIN]> <BEA-000000> <what if the application does not produce a log file that Log Analytics knows how to process?> Entity = amispaas_server_1 Entity Type = WebLogic Server Log Source = FMW WLS Server Logs Severity = Info
Jan 25, 2017, 9:14:12 PM	####<Jan 25, 2017, 8:14:12,40 PM UTC> <Warning> <bulklogging from the other side> <amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal> <amispaas_server_1> <[ACTIVE] ExecuteThread: '13' for queue: 'weblogic.kernel.Default (self-tuning)'> <<anonymous>> <> <449902a9-1b68-4970-8ddc-8c1c00062f6b-000033d0> <1485375252040> <[severity-value: 16] [rid: 0] [partition-id: 0] [partition-name: DOMAIN]> <BEA-000000> <special warning from external app> Entity = amispaas-db-java-stack-jaas-wls-1.compute-amispaas.oraclecloud.internal;9071;amispaas_server_1 Entity Type = WebLogic Server Log Source = FMW WLS Server Logs Severity = Warning



POST http://141.144.34.222:80/WebLogicLoggerService/resources/logger/bulklog

Authorization:
Headers (1) Body (raw) Pre-request Script Tests
form-data x-www-form-urlencoded raw binary Text

```

1 {
2   "logLevel" : "warn"
3   , "module" : "bulklogging from the other side"
4   , "messages" : [ {"message" : "special warning from external app", "logLevel" : "warn"} ,
5   , {"message" : "OMC event at AMIS", "logLevel" : "debug"} ,
6   , {"message" : "what if the application does not produce a log file that Log Analytics knows how to process?" }
7 ]
8 }
```

http post

The screenshot shows the log messages from the previous table. The first two messages are highlighted with a red border, indicating they were processed by the REST service. The third message is also highlighted, showing it was not processed.

Time	Message Type	Message ID	Message
Jan 25, 2017 8:14:12 PM UTC	Notification	BEA-000000	Information on OMC event at AMIS
Jan 25, 2017 8:14:12 PM UTC	Notification	BEA-000000	what if the application does not produce a log file that Log Analytics knows how to process?
Jan 25, 2017 8:14:12 PM UTC	Warning	BEA-000000	special warning from external app
Jan 25, 2017 8:13:59 PM UTC	Notification	BEA-000628	Created "1" resources for pool "mds-owsm", out of which "1" are available and "0" are unavailable.

- Blog: technology.amis.nl
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