Splunk - Metrics, Dashboards and Alerts

1. Initial Data

2. Stats by Detail (log level: error, info, etc.). Exceptions

3. Stats by Class (CartController, UserController)

4. Error in UserController (user creation, find a user, other)

New Search

source="log-29122019.csv" host="DESKTOP-E5E6PQG" sourcetype="csv" | search Class="c.g.f.e.controller.usercontroller" AND Detail="error"   All time ▾   🔍

✓ 5 events (before 12/29/19 9:41:05.000 PM)   No Event Sampling ▾   Job ▾ ‖ ▪ ↗ 🖨 ⬇   ● Smart Mode ▾

Events (5)   Patterns   Statistics   Visualization

Format Timeline ▾   — Zoom Out   + Zoom to Selection   × Deselect   1 hour per column

List ▾   ✎ Format   20 Per Page ▾

‹ Hide Fields   ≡ All Fields | i | Time | Event |
|---|---|---|

SELECTED FIELDS
a Class 1
a Detail 1
a Message 5
a Thread 3
a Time 5

INTERESTING FIELDS
date_hour 2
date_mday 2
date_minute 4
date_month 1
a date_wday 2
a date_year 1
a date_zone 1
a host 1
a index 1
linecount 1

> 12/29/19 4:16:00.000 PM
29.12.2019 16:16;ERROR;13180;[nio-8080-exec-4];c.g.f.e.controller.UserController;The user with id 14 cannot be found
Class = c.g.f.e.controller.UserController   Detail = ERROR   Message = The user with id 14 cannot be found   Thread = [nio-8080-exec-4]   Time = 29.12.2019 16:16

> 12/29/19 4:06:00.000 PM
29.12.2019 16:06;ERROR;13180;[nio-8080-exec-6];c.g.f.e.controller.UserController;New user cannot be created because there is already an username mimi created
Class = c.g.f.e.controller.UserController   Detail = ERROR   Message = New user cannot be created because there is already an username mimi created
Thread = [nio-8080-exec-6]   Time = 29.12.2019 16:06

> 12/28/19 9:11:00.000 PM
28.12.2019 21:11;ERROR;13180;[nio-8080-exec-2];c.g.f.e.controller.UserController;The user with id 10 cannot be found
Class = c.g.f.e.controller.UserController   Detail = ERROR   Message = The user with id 10 cannot be found   Thread = [nio-8080-exec-2]   Time = 28.12.2019 21:11

> 12/28/19 9:06:00.000 PM
28.12.2019 21:06;ERROR;13180;[nio-8080-exec-6];c.g.f.e.controller.UserController;The user with id 31 cannot be found
Class = c.g.f.e.controller.UserController   Detail = ERROR   Message = The user with id 31 cannot be found   Thread = [nio-8080-exec-6]   Time = 28.12.2019 21:06

> 12/28/19 4:21:00.000 PM
28.12.2019 16:21;ERROR;13180;[nio-8080-exec-6];c.g.f.e.controller.UserController;New user cannot be created because there is already an username marina created
Class = c.g.f.e.controller.UserController   Detail = ERROR   Message = New user cannot be created because there is already an username marina crea...
Thread = [nio-8080-exec-6]   Time = 28.12.2019 16:21

5.   CreateUser request successes

splunk›enterprise   App: Search & Reporting ▾   ● Administrator ▾ ② Messages ▾   Settings ▾   Activity ▾   Help ▾   Find   🔍

Search   Analytics   Datasets   Reports   Alerts   Dashboards   ❯ Search & Reporting

New Search

source="log-29122019.csv" host="DESKTOP-E5E6PQG" sourcetype="csv"| where like(Message,"New user%") AND like(Detail,"INFO")   🔍

Report
Dashboard Panel
Alert
Event Type

✓ 13 events (before 12/29/19 10:44:21.000 PM)   No Event Sampling ▾   Job ▾ ‖ ▪ ↗ 🖨

Events (13)   Patterns   Statistics   Visualization

Format Timeline ▾   — Zoom Out   + Zoom to Selection   × Deselect   1 hour per column

List ▾   ✎ Format   20 Per Page ▾

‹ Hide Fields   ≡ All Fields | i | Time | Event |
|---|---|---|

SELECTED FIELDS
a Class 1
a Detail 1
a Message 13
a Thread 6
a Time 7

INTERESTING FIELDS
date_hour 2
date_mday 2
date_minute 7
a date_month 1
a date_wday 2
date_year 1

> 12/29/19 4:07:00.000 PM
29.12.2019 16:07;INFO;13180;[nio-8080-exec-4];c.g.f.e.controller.UserController;New user is created: daria
Class = c.g.f.e.controller.UserController   Detail = INFO   Message = New user is created: daria   Thread = [nio-8080-exec-4]   Time = 29.12.2019 16:07

> 12/29/19 4:07:00.000 PM
29.12.2019 16:07;INFO;13180;[nio-8080-exec-2];c.g.f.e.controller.UserController;New user is created: roger
Class = c.g.f.e.controller.UserController   Detail = INFO   Message = New user is created: roger   Thread = [nio-8080-exec-2]   Time = 29.12.2019 16:07

> 12/29/19 4:07:00.000 PM
29.12.2019 16:07;INFO;13180;[nio-8080-exec-3];c.g.f.e.controller.UserController;New user is created: nadal
Class = c.g.f.e.controller.UserController   Detail = INFO   Message = New user is created: nadal   Thread = [nio-8080-exec-3]   Time = 29.12.2019 16:07

> 12/29/19 4:06:00.000 PM
29.12.2019 16:06;INFO;13180;[nio-8080-exec-1];c.g.f.e.controller.UserController;New user is created: nadia
Class = c.g.f.e.controller.UserController   Detail = INFO   Message = New user is created: nadia   Thread = [nio-8080-exec-1]   Time = 29.12.2019 16:06

> 12/29/19 4:06:00.000 PM
29.12.2019 16:06;INFO;13180;[io-8080-exec-10];c.g.f.e.controller.UserController;New user is created: bruno
Class = c.g.f.e.controller.UserController   Detail = INFO   Message = New user is created: bruno   Thread = [io-8080-exec-10]   Time = 29.12.2019 16:06

New Search

```
source="log-29122019.csv" host="DESKTOP-E5E6PQG" sourcetype="csv"| where like(Message,"New user%") AND like(Detail,"INFO")| table Time, Message
```

All time ▾   🔍

✓ 13 events (before 12/29/19 9:48:46.000 PM)   No Event Sampling ▾   Job ▾   ‖   ■   ↗   🖨   ⤓   ♥ Smart Mode ▾

Events   Patterns   **Statistics (13)**   Visualization

20 Per Page ▾   ✎ Format   Preview ▾

Time ⬍	✎	Message ⬍
28.12.2019 16:30		New user is created: yiyi
28.12.2019 16:30		New user is created: wiki
28.12.2019 16:30		New user is created: miki
28.12.2019 16:26		New user is created: koki
28.12.2019 16:22		New user is created: robert
28.12.2019 16:20		New user is created: marina
28.12.2019 16:20		New user is created: polina
28.12.2019 20:55		New user is created: mimi
29.12.2019 16:07		New user is created: daria
29.12.2019 16:07		New user is created: roger
29.12.2019 16:07		New user is created: nadal
29.12.2019 16:06		New user is created: nadia
29.12.2019 16:06		New user is created: bruno

6. CreateUser request failures

New Search

```
source="log-29122019.csv" host="DESKTOP-E5E6PQG" sourcetype="csv"| where like(Message,"New user%") AND like(Detail,"ERROR")| table Time, Message
```

All time ▾   🔍

✓ 2 events (before 12/29/19 9:49:50.000 PM)   No Event Sampling ▾   Job ▾   ‖   ■   ↗   🖨   ⤓   ♥ Smart Mode ▾

Events   Patterns   **Statistics (2)**   Visualization

20 Per Page ▾   ✎ Format   Preview ▾

Time ⬍	✎	Message ⬍	✎
28.12.2019 16:21		New user cannot be created because there is already an username marina created	
29.12.2019 16:06		New user cannot be created because there is already an username mimi created	

7. Order requests failures

New Search

```
source="log-29122019.csv" host="DESKTOP-E5E6PQG" sourcetype="csv"| where like(Class,"%Cart%") AND like(Detail,"ERROR")| table Time, Message
```

All time ▾   🔍

✓ 12 events (before 12/29/19 9:51:50.000 PM)   No Event Sampling ▾   Job ▾   ‖   ■   ↗   🖨   ⤓   ♥ Smart Mode ▾

Events   Patterns   **Statistics (12)**   Visualization

20 Per Page ▾   ✎ Format   Preview ▾

Time ⬍	✎	Message ⬍	✎
28.12.2019 16:33		Cannot addToCart no existing item with id 3	
28.12.2019 16:32		Cannot addToCart because no existing user with name mika	
28.12.2019 16:31		Cannot removeFromCart because no existing user with name mika	
28.12.2019 16:31		Cannot removeFromCart because no existing user with name mikai	
28.12.2019 16:31		Cannot removeFromCart because no existing user with name ykiyi	
28.12.2019 16:25		Cannot removeFromCart because no existing item with id 3	
28.12.2019 16:25		Cannot addToCart because no existing item with id 3	
28.12.2019 16:21		Cannot addToCart no existing item with id 4	
28.12.2019 16:21		Cannot addToCart no existing item with id 4	
28.12.2019 16:21		Cannot addToCart because no existing user with name miki	
28.12.2019 20:55		Cannot addToCart because no existing user with name mimi	
28.12.2019 20:51		Cannot addToCart because no existing user with name adelina	

8. Order requests successes

New Search

```
source="log-29122019.csv" host="DESKTOP-E5E6PQG" sourcetype="csv"| where like(Class,"%Cart%") AND like(Detail,"INFO")| table Time, Message
```
All time ▾ 🔍

✓ 59 events (before 12/29/19 9:52:19.000 PM)   No Event Sampling ▾   Job ▾ ‖ ■ ↗ 🖨 ⬇   📍 Smart Mode ▾

Events   Patterns   **Statistics (59)**   Visualization

20 Per Page ▾   ✎ Format   Preview ▾   ‹ Prev   1   2   3   Next ›

Time ⬍	Message ⬍
28.12.2019 16:33	8 Item(s) Round Widget was added to cartId 1 by user polina
28.12.2019 16:32	8 Item(s) Square Widget was added to cartId 1 by user polina
28.12.2019 16:32	8 Item(s) Round Widget was added to cartId 6 by user miki
28.12.2019 16:32	18 Item(s) Square Widget was added to cartId 6 by user miki
28.12.2019 16:31	1 Item(s) Square Widget was removed from cartId 8 by user yiyi
28.12.2019 16:31	15 Item(s) Square Widget was added to cartId 8 by user yiyi
28.12.2019 16:31	15 Item(s) Round Widget was added to cartId 8 by user yiyi
28.12.2019 16:30	1 Item(s) Square Widget was removed from cartId 5 by user koki
28.12.2019 16:30	6 Item(s) Round Widget was added to cartId 5 by user koki
28.12.2019 16:28	6 Item(s) Square Widget was added to cartId 5 by user koki
28.12.2019 16:27	1 Item(s) Square Widget was removed from cartId 5 by user koki
28.12.2019 16:26	1 Item(s) Round Widget was removed from cartId 5 by user koki
28.12.2019 16:25	1 Item(s) Square Widget was removed from cartId 4 by user robert
28.12.2019 16:25	1 Item(s) Round Widget was removed from cartId 4 by user robert

9.   The alert setup

Save As Alert

Settings

Title	New User
Description	Alert triggered when a new user is created

Permissions | Private | Shared in App |

Alert type | Scheduled | Real-time |

Run every week ▾

On Monday ▾ at 6:00 ▾

Expires | 24 | hour(s) ▾ |

Trigger Conditions

Trigger alert when   Number of Results ▾

| is greater than ▾ | 1 |

Trigger | Once | For each result |

Throttle ? ☐

Cancel   **Save**

Save As Alert   ✕

Alert type   Scheduled   Real-time

┌───┐
│   Run every week ▼   │
└───┘

On [Monday ▼] **at** [6:00 ▼]

Expires [24]   [hour(s) ▼]

Trigger Conditions

Trigger alert when   [Number of Results ▼   ]

                     [is greater than ▼] [1]

Trigger   [Once   ][For each result   ]

Throttle ?   ☐

Trigger Actions

[+ Add Actions ▼]

When triggered   ⌄   🔔 Add to Triggered Alerts   Remove

                     Severity   [Medium ▼]

                                          [Cancel] [**Save**]

New User

Alert triggered when a new user is created

Enabled: .... Yes. Disable   Trigger Condition: .. Number of Results is > 1. Edit
App: .... search   Actions: .... ⌄1 Action   Edit
Permissions: .... Private. Owned by gabriela607. Edit   🔔 Add to Triggered Alerts
Modified: .... Dec 29, 2019 10:47:15 PM
Alert Type: .... Scheduled. Weekly, Monday at 6:00. Edit

ⓘ There are no fired events for this alert.

Build and deployment of the application with Jenkins

1. A part from

```
10:49:14.132 [main] INFO com.gabriela.fabricadefumuri.eCommerce.controller.CartController - 1 Item(s) car was removed from cartId 1 by user myName
10:49:14.138 [main] INFO com.gabriela.fabricadefumuri.eCommerce.controller.CartController - 2 Item(s) car was added to cartId 1 by user myName
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.221 s - in com.gabriela.fabricadefumuri.eCommerce.CartControllerTest
[INFO] Running com.gabriela.fabricadefumuri.eCommerce.ItemControllerTest
0
0
10:49:14.150 [main] INFO com.gabriela.fabricadefumuri.eCommerce.controller.ItemController - The founded item name is
10:49:14.167 [main] INFO com.gabriela.fabricadefumuri.eCommerce.controller.ItemController - The number of items is
10:49:14.167 [main] INFO com.gabriela.fabricadefumuri.eCommerce.controller.ItemController - Number of founded items is
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.014 s - in com.gabriela.fabricadefumuri.eCommerce.ItemControllerTest
[INFO] Running com.gabriela.fabricadefumuri.eCommerce.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.005 s - in com.gabriela.fabricadefumuri.eCommerce.AppTest
[INFO] Running com.gabriela.fabricadefumuri.eCommerce.OrderControllerTest
ordermyName
10:49:14.401 [main] INFO com.gabriela.fabricadefumuri.eCommerce.controller.OrderController - The user myName has 1 orders
10:49:14.402 [main] INFO com.gabriela.fabricadefumuri.eCommerce.controller.OrderController - The user myName submitted 0 items from the null order
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.102 s - in com.gabriela.fabricadefumuri.eCommerce.OrderControllerTest
[INFO] Running com.gabriela.fabricadefumuri.eCommerce.UserControllerTest
10:49:14.464 [main] INFO com.gabriela.fabricadefumuri.eCommerce.controller.UserController - The user with id 1 has the name myName
10:49:14.468 [main] INFO com.gabriela.fabricadefumuri.eCommerce.controller.UserController - The user myName has 0 items with a total sum of 0
10:49:14.468 [main] INFO com.gabriela.fabricadefumuri.eCommerce.controller.UserController - The user cannot be found myName1
10:49:14.471 [main] INFO com.gabriela.fabricadefumuri.eCommerce.controller.UserController - New user is created: first
10:49:14.477 [main] ERROR com.gabriela.fabricadefumuri.eCommerce.controller.UserController - New user cannot be created because of password is incorrectly initialized first
10:49:14.478 [main] ERROR com.gabriela.fabricadefumuri.eCommerce.controller.UserController - New user cannot be created because of password is incorrectly initialized first
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.068 s - in com.gabriela.fabricadefumuri.eCommerce.UserControllerTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 11, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.1.1:jar (default-jar) @ eCommerce ---
[INFO] Building jar: /data/work/jenkins/workspace/gabi-udacity-ecommerce/eCommerce/target/eCommerce-0.0.1-SNAPSHOT.jar
[INFO]
```

2. Build successfully

Jenkins

- Back to Dashboard
- Status
- Changes
- Workspace
- Build Now
- Delete Project
- Configure
- Purge Build History

Workspace of gabi-udacity-ecommerce on master

📁 eCommerce / target / ➡

- 📁 classes
- 📁 generated-sources/annotations
- 📁 generated-test-sources/test-annotations
- 📁 maven-archiver
- 📁 maven-status/maven-compiler-plugin
- 📁 surefire-reports
- 📁 test-classes/com/gabriela/fabricadefumuri/eCommerce
- 📄 eCommerce-0.0.1-SNAPSHOT.jar   37.06 MB 🔍 view
- 📄 eCommerce-0.0.1-SNAPSHOT.jar.original 28.25 KB 🔍 view

🗜 (all files in zip)

Build History   trend —

| find | X |

🔵 #3	Dec 30, 2019 10:48 AM	
🔴 #2	Dec 30, 2019 10:46 AM	
🔴 #1	Dec 30, 2019 10:45 AM	

📶 RSS for all 📶 RSS for failures