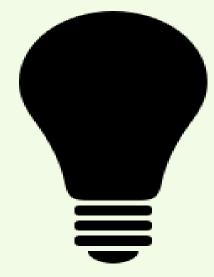
Using Elastic or Splunk for collaboration



Q: How many testers does it take to change a lightbulb?

Albert Witteveen



At the helm

- ~ 50% of IT projects fail.
- NL 1.6 billion EURO annually lost
- Integration phase: AKA test phase







Collaboration

- Devops
- Elastic stack or Splunk: enabling collobaration



Coming together is a beginning; keeping together is progress; working together is success.

Henry Ford

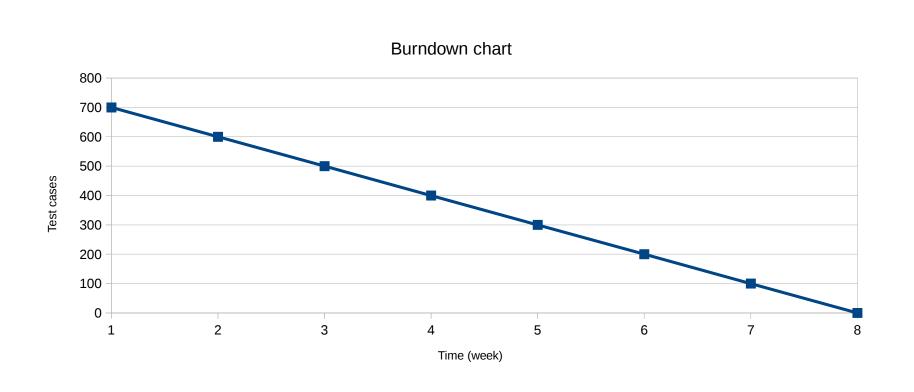
Pluton I7

A story

- Large multi million project
- Many different teams
- Stuck in the integration phase

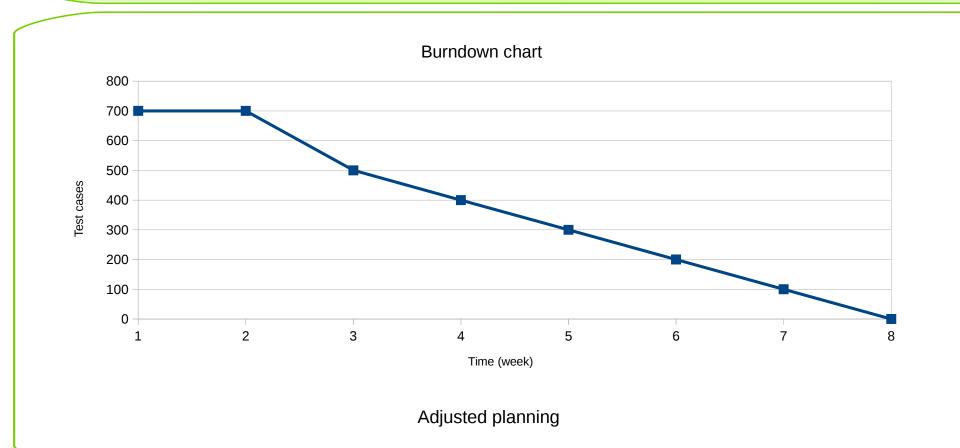


Week 1



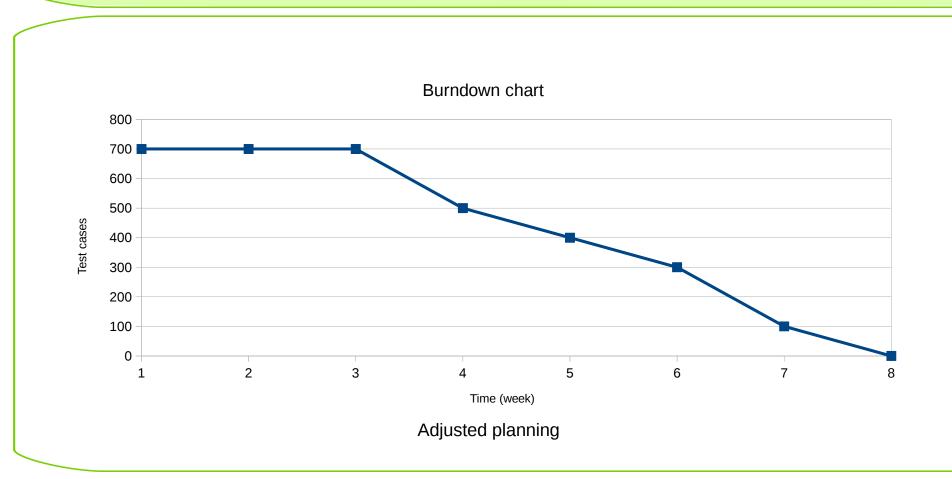


Week 2





Week 3





Issues

- Multiple (new) systems: many teams
- No business process getting through
- "Hey test manager, you are delaying"
- Testers were looking at frontends not 'under the hood'
- Rising amount of issues
- Issues ping ponging

We're test phase managers!

"Testing is not responsible for the bugs inserted into software any more than the sun is responsible for creating dust in the air."— Dorothy Graham

Operational intelligence system

64.242.88.10	[07/Mar/2015:16:05:49 -080] "GET	/twiki/bin/edit/Main/Double_bounce_sender?topicparent=Main.ConfigurationVariables HTTP/1.1" 401 12846
64.242.88.10	[07/Mar/2015:16:06:51 -080] "GET	/twiki/bin/rdiff/TWiki/NewUserTemplate?rev1=1.3&rev2=1.2 HTTP/1.1" 200 4523
64.242.88.10	[07/Mar/2015:16:10:02 -080] "GET	/mailman/listinfo/hsdivision HTTP/1.1" 200 6291
64.242.88.10	[07/Mar/2015:16:11:58 -080	GET	/twiki/bin/view/TWiki/WikiSyntax HTTP/1.1" 200 7352
64.242.88.10	[07/Mar/2015:16:20:55 -080] "GET	/twiki/bin/view/Main/DCCAndPostFix HTTP/1.1" 200 5253
64.242.88.10	[07/Mar/2015:16:23:12 -080] "GET	/twiki/bin/oops/TWiki/AppendixFileSystem?template=oopsmore¶m1=1.12¶m2=1.12 HTTP/1.1" 200 11382
64.242.88.10	[07/Mar/2015:16:24:16 -080] "GET	/twiki/bin/view/Main/PeterThoeny HTTP/1.1" 200 4924
64.242.88.10	[07/Mar/2015:16:29:16 -080] "GET	/twiki/bin/edit/Main/Header checks?topicparent=Main.ConfigurationVariables HTTP/1.1" 401

Order_ID	Status	CorrelationID
01254486	completed	C24ec540d000ee0b7d2304bc34c769a4
01254487	in progress	a2a551a6458a8de22446cc76d639a9e9
01254488	in progress	be121740bf988b2225a313fa1f107ca1
01254489	error	b0293108cc2a2aa7c88738c2215b1a05
01254490	completed	68c4283db8074b12df1660b31c0220a9
01254491	completed	9a1f30943126974075dbd4d13c8018ac

<?xml version="1.0" standalone="yes" ?> - <shop location="Birmingham" size="Large"> - <food> <Name>Apple</Name> <type>fruit</type> <cost>15</cost>

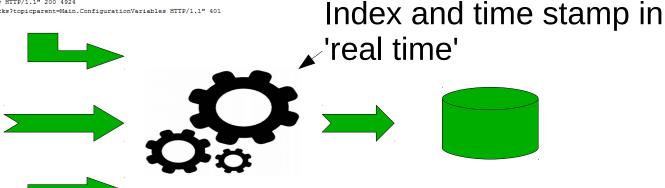
</food>

- <foods

<Name>Carrot</Name> <type>veqetable</type>

<cost>10</cost>

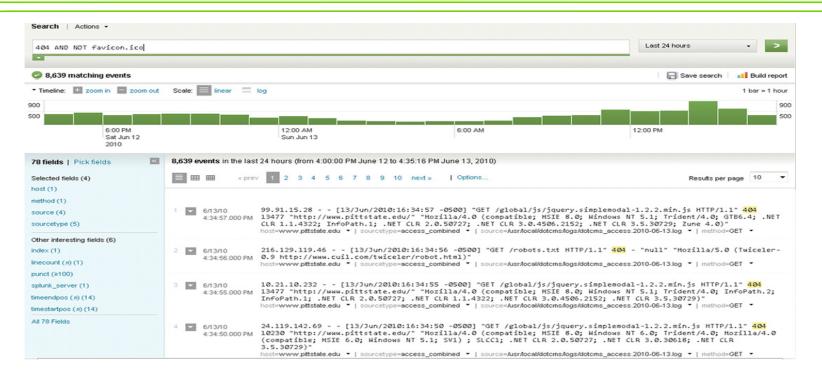
</food> </shop>



```
)1 server CRON[14748]: (root) CMD ( cd / && run-parts --report /etc/cron.hourly)
)1 server CRON[15493]: (root) CMD ( cd / && run-parts --report /etc/cron.hourly)
24 server dbus[426]: [system] Activating service name='org.freedesktop.ConsoleKit' (using servicehelper)
?5 server dbus[426]: [system] Activating service name='org.freedesktop.PolicyKit1' (using servicehelper)
?5 server polkitd[15604]: started daemon version 0.105 using authority implementation `local' version `0.105'
?5 server dbus[426]: [system] Successfully activated service 'org.freedesktop.PolicyKit1'
?5 server dbus[426]: [system] Successfully activated service 'org.freedesktop.ConsoleKit'
:/var/log$
```



Search

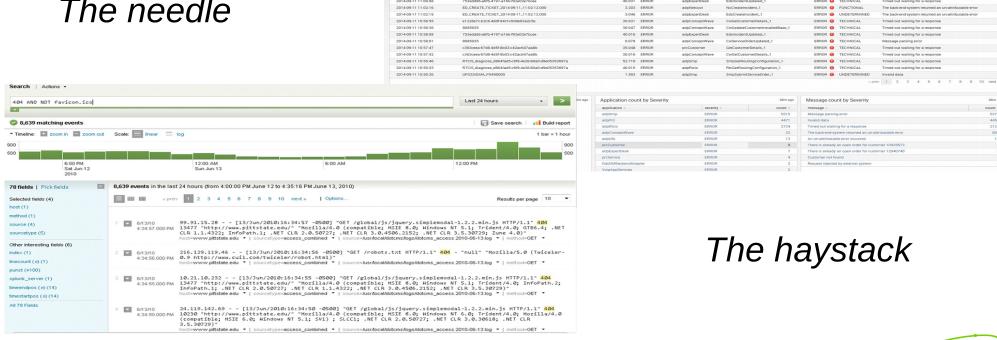


"Pay attention to zeros. If there is a zero, someone will divide by it." Dr. Cem Kaner



The needle and the haystack

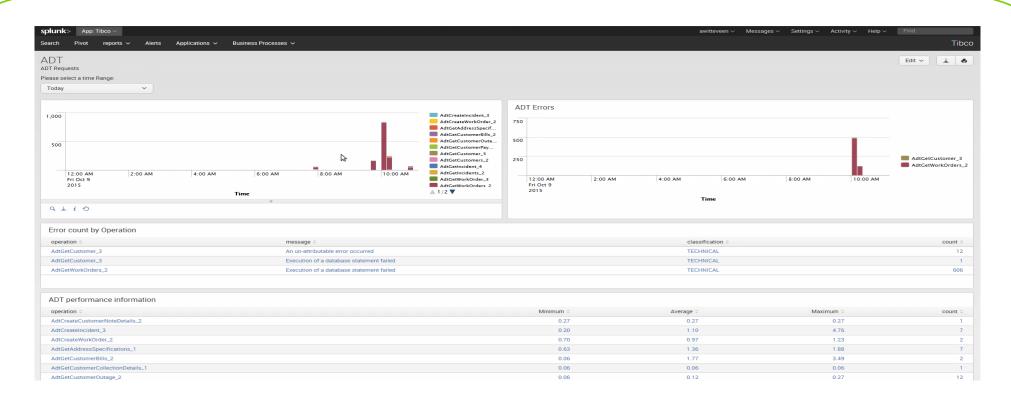




Pluton L

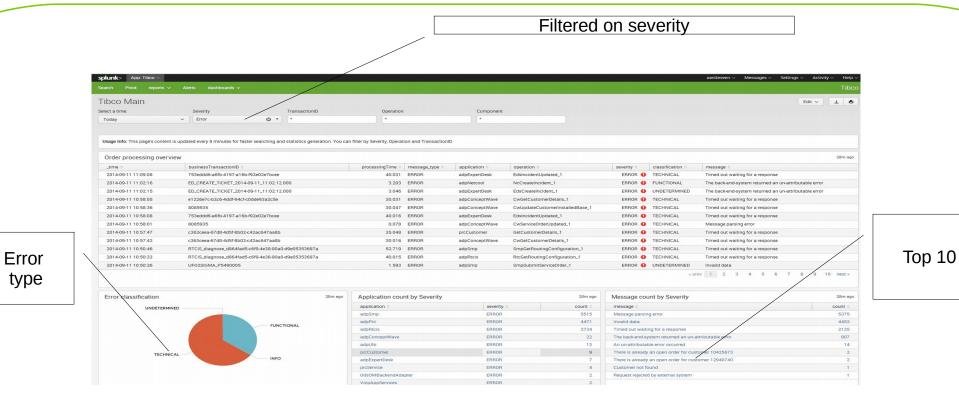
Usage Info: This page's content is updated every 5 minutes for faster searching and statistics generation. You can filter by Severity. Operation and Transaction.

Application errors



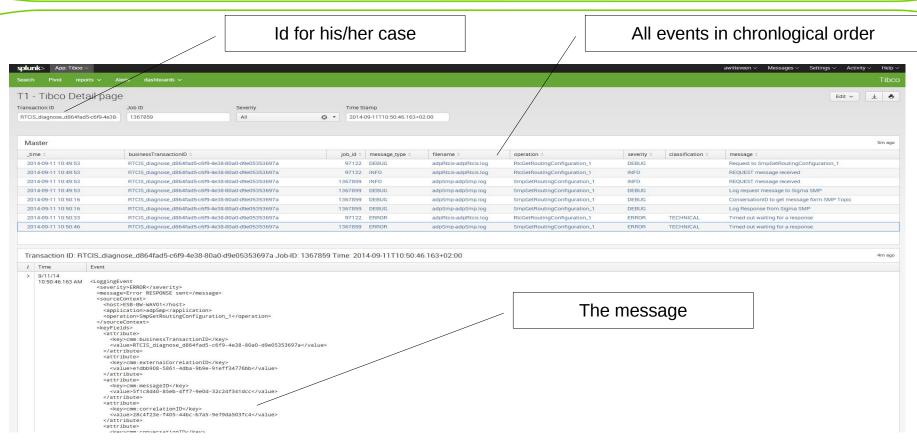


For the project



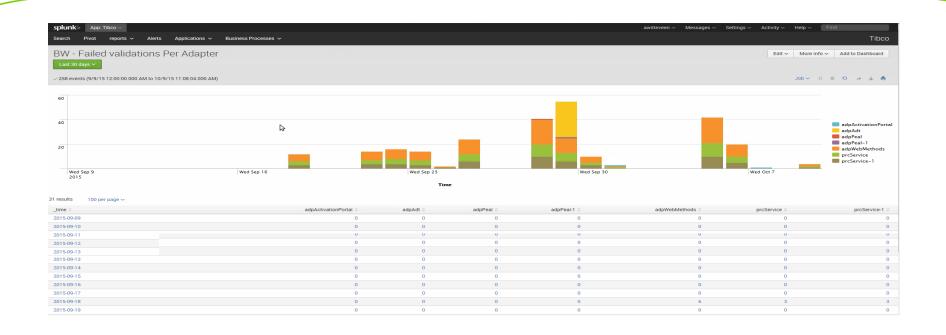
PlutonIT

For the tester





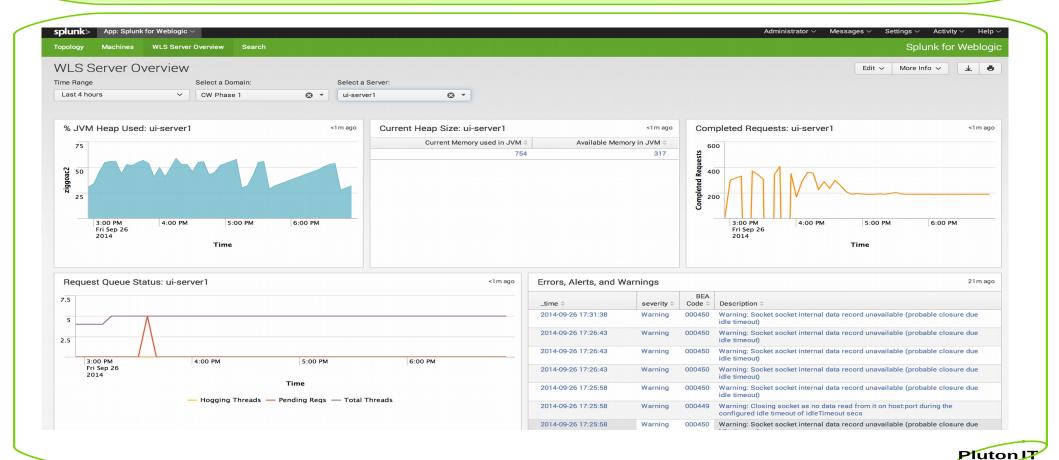
Reliability



As a test manager I get objective information on the reliability



Correlate



The result

- We got a view on the real issues
- We fixed the real issues
- Testers fixed their own test data issues
- Testers loved the software
- Testers and engineers huddled over one screen
- We made the deadline (sort of)



"You can see a lot by just looking."— Yogi Berra



Visualisation

- Most testers have insight, but neither access nor training
- Operational intelligence system offers
 - visual information
 - view under the hood
 - accesible information



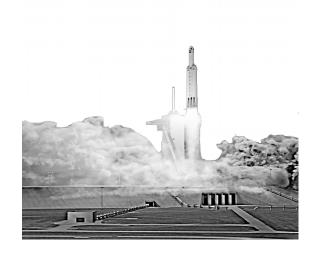
Volunteers feedback

"We only see what we know."— Goethe



A look in the mirror

• Is this just a patch for bad design?







"We cannot solve our problems with the same thinking we used when we created them." Albert Einstein





The options



Free software





Proprietary









Before you start

- License
- Data (size, accessibility, privacy)
- Experience
- Time for support
- Do a POC



Feed it data

- Application data (log4j, custom)
- HTTP Logs, change logformat! Enable cookie logging
- Messages! (if needed ask dev to log)
- Technical data (i.e. Java Garbage collections)
- System data (/var/log)
- Database tables (rising tables)
- Location (change log location?
- Higher log level





Throw the first stone

- Searches (error, fatal, nullpointer, ORA-, 404 etc.)
- Dashboards



Experience matters

- Train
- Try
- Get advise (support?)
- Help
- Demand



Follow the process

- With dev/test follow a full process
 - Insight
 - Collaborate
 - Share knowledge
- Build an app



Collaborate

- Testers are technical enough with help
- Improves total quality
- We can help get the integration right
- OI systems are not just for production
- Not the end of project failures

Testers don't change the lightbulb....



