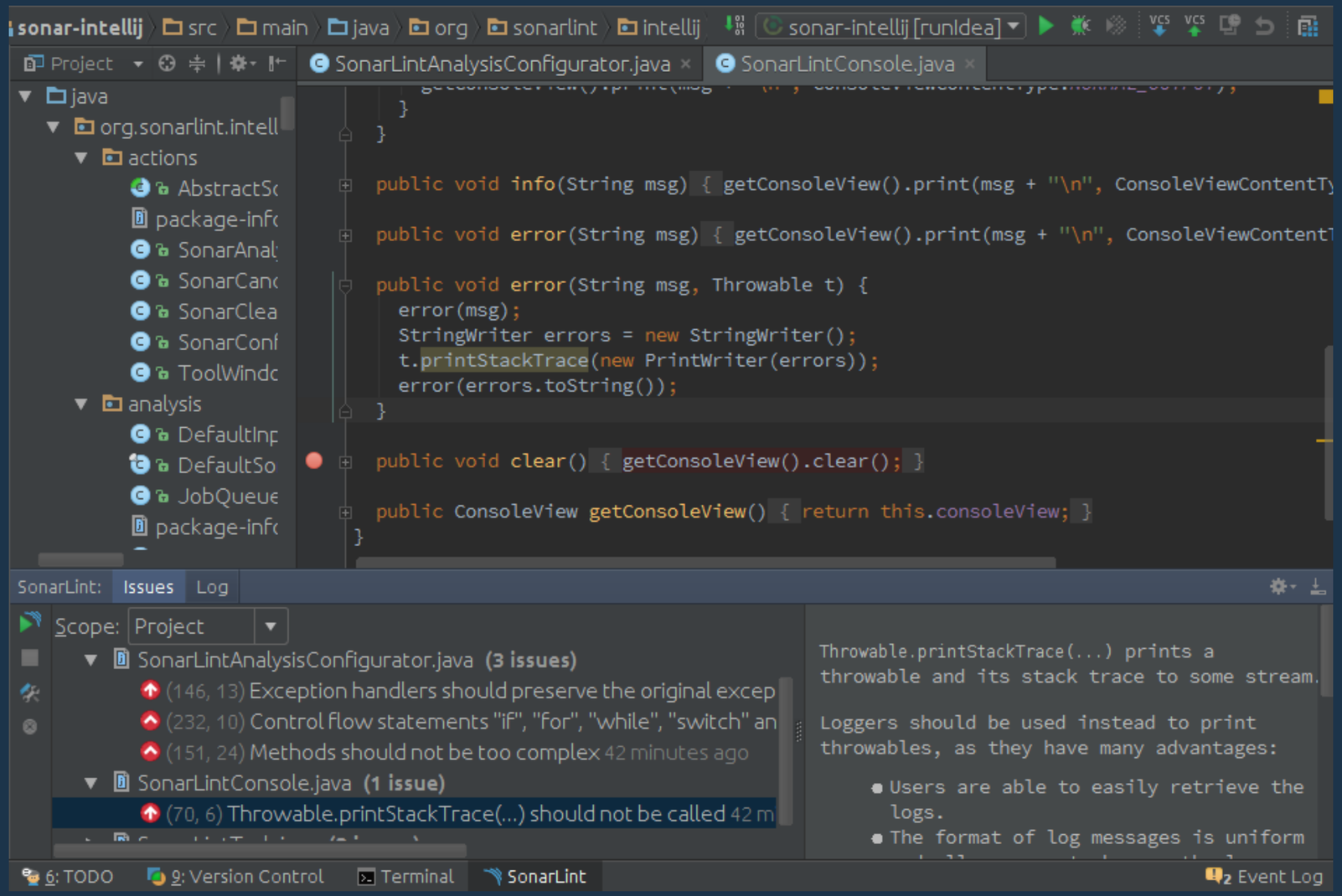
Making *Sense* of Microservices

@russmiles


GEEK
HARLEY
ONA

sort of … #NOSLIDES

The *Challenge* of the Modern Software Developer?


sonar-intellij
src
main
java
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Project
SonarLintAnalysisConfigurator.java
SonarLintConsole.java
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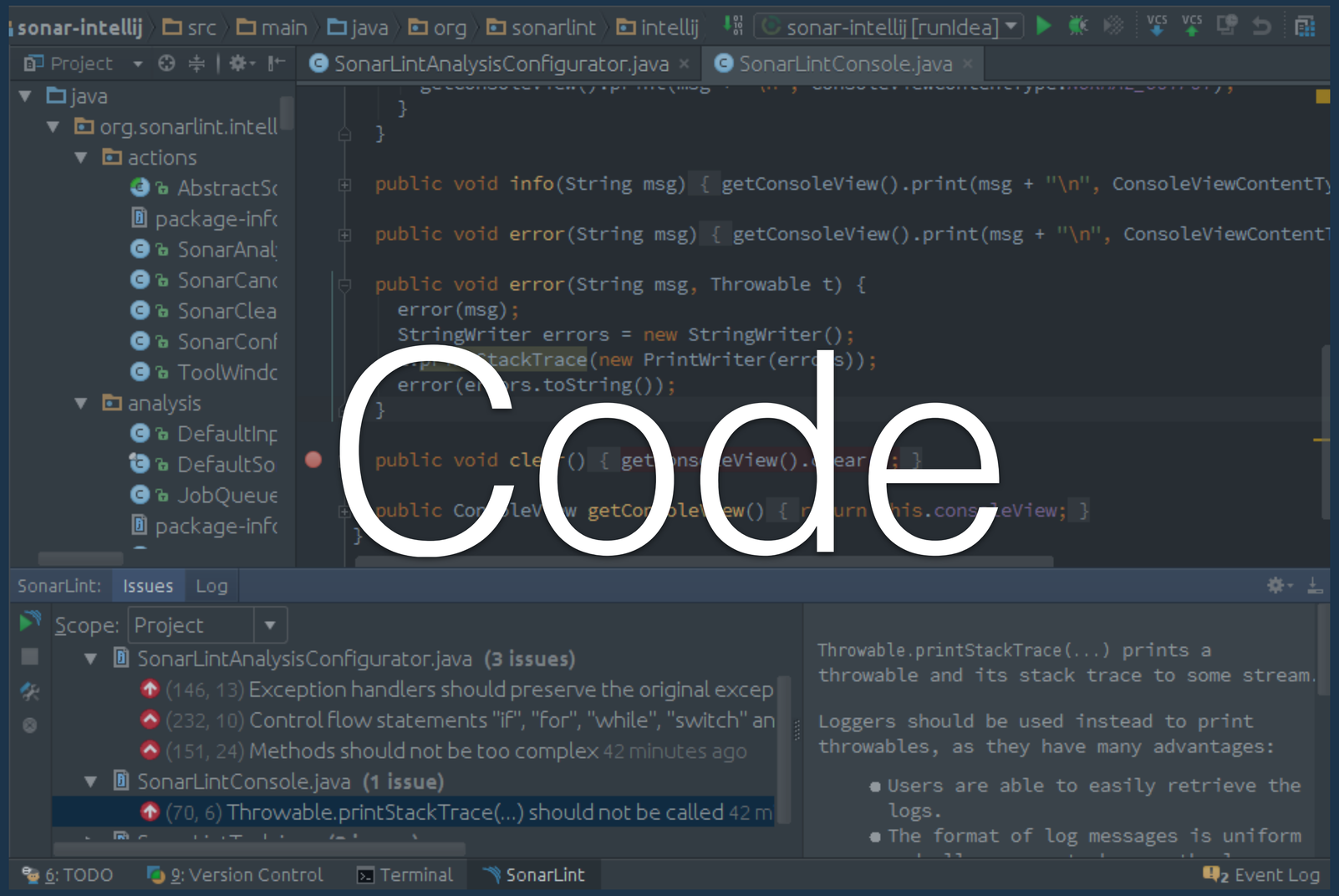
public void info(String msg) { getConsoleView().print(msg + "\n", ConsoleViewContentTy
public void error(String msg) { getConsoleView().print(msg + "\n", ConsoleViewContentT
public void error(String msg, Throwable t) {
error(msg);
StringWriter errors = new StringWriter();
t.printStackTrace(new PrintWriter(errors));
error(errors.toString());
}
public void clear() { getConsoleView().clear(); }
public ConsoleView getConsoleView() { return this.consoleView; }
}
SonarLint:
Issues
Log
Scope:
Project
SonarLintAnalysisConfigurator.java (3 issues)
(146, 13) Exception handlers should preserve the original excep
(232, 10) Control flow statements "if", "for", "while", "switch" an
(151, 24) Methods should not be too complex 42 minutes ago
SonarLintConsole.java (1 issue)
(70, 6) Throwable.printStackTrace(...) should not be called 42 m
Throwable.printStackTrace(...) prints a
throwable and its stack trace to some stream.
Loggers should be used instead to print
throwables, as they have many advantages:
Users are able to easily retrieve the
logs.
The format of log messages is uniform
6: TODO
9: Version Control
Terminal
SonarLint
Event Log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SonarLint
Event Log

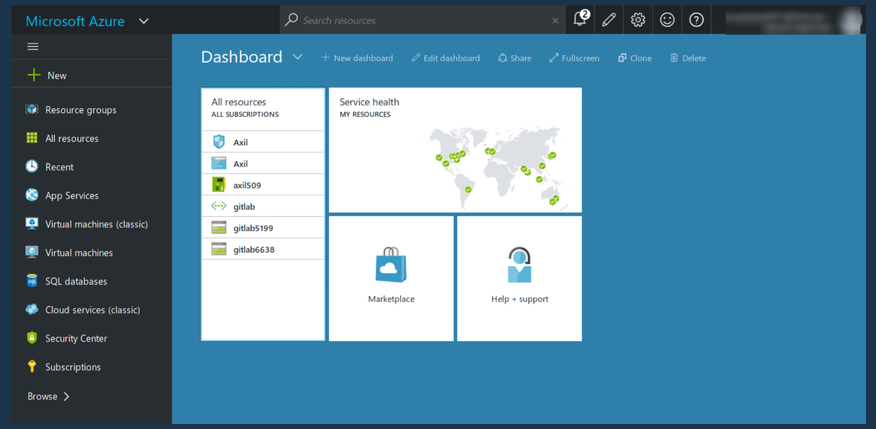
But…

Source Code Repositories?

Software Quality Control?

Organise Work?

CI/CD?


Microsoft Azure
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Virtual machines (classic)
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SQL databases
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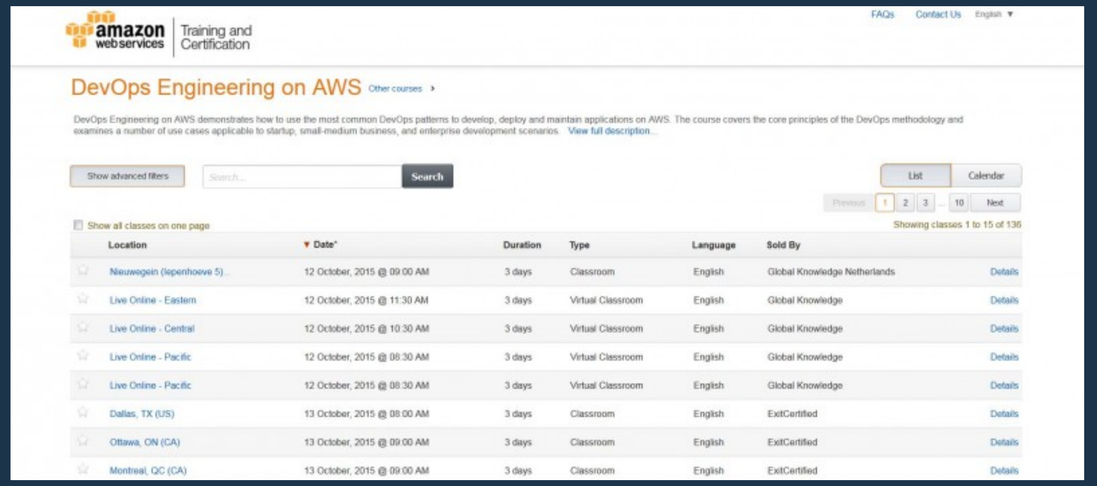
Subscriptions
Browse
Dashboard
New dashboard
Edit dashboard
Share
Fullscreen
Clone
Delete
All resources
ALL SUBSCRIPTIONS
Axil
Axil
axil509
gitlab
gitlab5199
gitlab6638
Service health
MY RESOURCES
Marketplace
Help + support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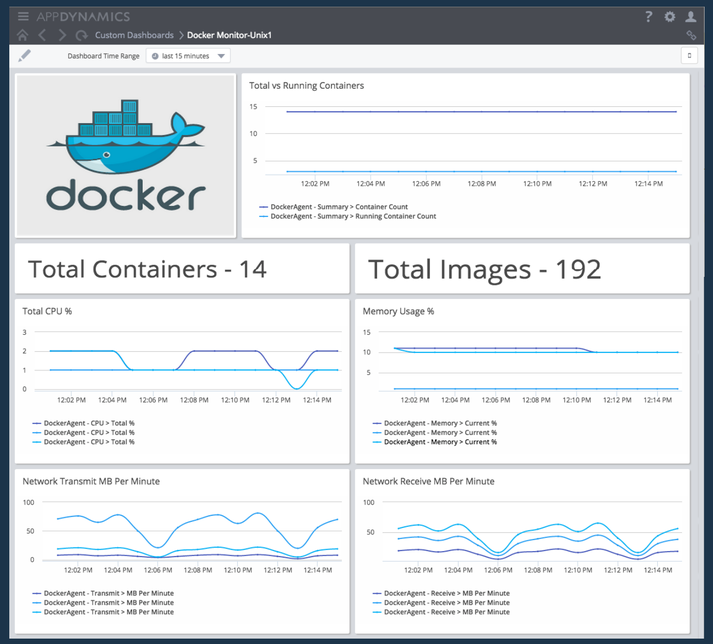

APPDYNAMICS
Custom Dashboards
Docker Monitor-Unix1
Dashboard Time Range
last 15 minutes
docker
Total vs Running Containers
DockerAgent - Summary > Container Count
DockerAgent - Summary > Running Container Count
Total Containers - 14
Total Images - 192
Total CPU %
DockerAgent - CPU > Total %
Memory Usage %
DockerAgent - Memory > Current %
Network Transmit MB Per Minute
DockerAgent - Transmit > MB Per Minute
Network Receive MB Per Minute
DockerAgent - Receive > MB Per Minute

Etc, etc....

and *then*…?

It gets worse…

DevO(o)ps

Unmanageable *so*…

Microservices!

X x100

alt-Tab should *not* be a key skill!

We have an
embarrassment of riches…

Modern Software Development
is a
Cognitive Overhead Problem

What to notice?

Where to notice it?

Where to find what you need to decide?

What to do next?

To the *rescue*?

“chat … ?”

WTF! Chat????

Well, no…

…but maybe!!

The *Problem* of Chat.

Noise *Amplifier!*


CLIMB
DIVE
ANGLE OF ATTACK
MAN C'RIDE AIR REFUEL
PUSH TO RESET
RSO EJECTED
EAS-KNOTS
ALTITUDE-FT
MACH
IVSI
VERTICAL SPEED
FUEL POUNDS
TEMP IND SELECTOR
DRAG CHUTE
RSO BAILOUT
RADIO CALL
DISPLAY MODE SEL
TACAN
BEARING SELECT TAC/ADF
ATT REF SELECT AHS
FUEL QTY IND SELECT
SURF LIMIT RELEASE PULL
TRIM
EXHAUST GAS TEMP
BY-PASS
LDG GEAR
LAND LT
TAXI LT
FACE HEAT
AUTO TEMP
DEFOG OPEN
ANTI SKID
ALT STEER & BRAKE
GEAR SIG REL
FUEL DERICH
JETTISON PUSH
PULL TO DEPLOY
MARKER BEACON
AUTOPILOT
STAB AUG
YAW
ROLL
PITCH
ALT HOLD
HEADING HOLD
AUTO MAN


in Slack?


Please, god, no!

It has to be more than just
‘show’

Chat is about
collaboration

Make me *aware*

Help me *act*

Show me *what I need to know*

Help me *Figure It Out*

Observe

Help me *act*

Show me *what I need to know*

Help me *Figure It Out*

Observe

Help me *act*

Orient

Help me *Figure It Out*

Observe

Help me *act*

Orient

Decide

Observe

Act

Orient

Decide

Chat gives a unique potential for OODA for Modern Software Development

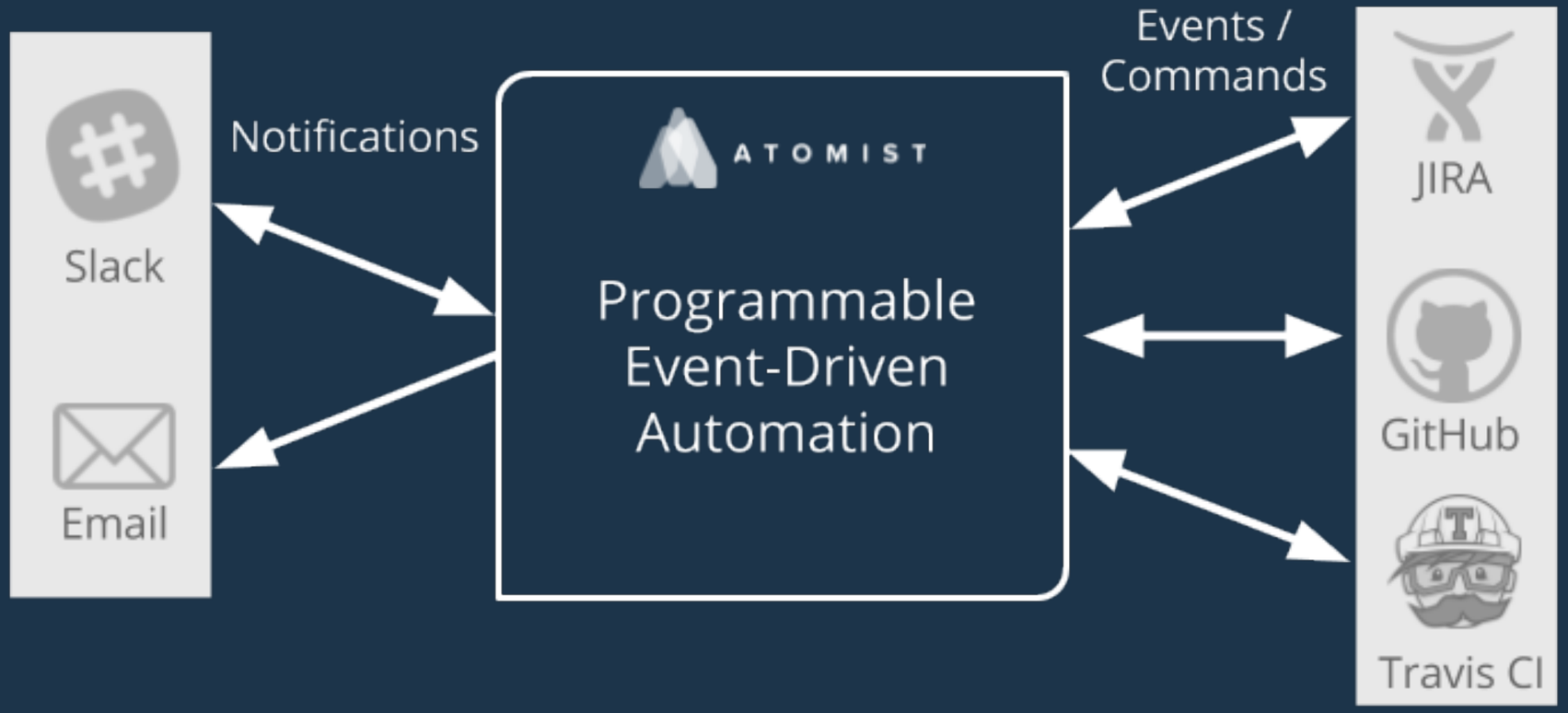
What I wanted…

Visibility and *Control* to *Automate* Software Development

or...

“OODA for the Modern Software Development Flow”

CONNECTED, COORDINATED, AUTOMATED



WHAT'S IN IT?

Brain: Model and Integrations

Ears: Handlers (Command and Event)

Eyes: Reviewers

Hands: Editors and Generators

A little demo of what *I* use

Skill 1 - Creating new microservices

Skill 2 - Evolving Microservices

Skill 3 - Knowing when something has changed

Skill 4 - Telling others what I’ve been up to ;)

Any Questions …
And Thanks!

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