## **Testing email with Mailcatcher**

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- 1) A typical email architecture
- 2) Email testing objectives
- 3) Mailcatcher
- 4) Typical configuration
- 5) Limitations

- Web controllers publish messages (to the application DB, RabbitMQ, Cloud pub/sub, etc.)
- A messenger worker processes these messages asynchronously, sends them to the local MTA (typically running in the same container)
- The MTA handles the mechanics of sending the messages to the target SMTP server (retries, etc.)

- Identical code on local and remote environments
- Emails actually sent in dev (not just held off)
- while avoiding spamming real users (or getting blacklisted)
- Actual emails can be inspected

- An SMTP server running on localhost
- Can be deployed as an executable or a docker container (the latter is straightforward)
- Includes a web server where emails can be viewed

## 3. Mailcatcher

€ 3 192.168.56.101:1080			۹	÷	+	Â	☆	Ê	) »	≡
🐑 MailCatcher				Search	n mess	ages			Clear	Quit
From	То		Subject	Receiv	ed					
<example@test.com></example@test.com>	<nobody@example.com></nobody@example.com>		Test email	Saturda	ay, 2 Ja	an 201	16 4:3	3:56	6 PM	

	From To	Saturday, 2 Jan 2016 4:38:56 PM <example@test.com> <nobody@example.com> Test email</nobody@example.com></example@test.com>	
Plain Text	Sourc	ce	Download

This is a test email from the server

- Define different SMTP configuration for local dev and remote environments
- Example using msmtp as MTA:
  - msmtp determines the SMTP account to use depending on the sender email address
  - define a different sender email address on local dev

## 4. Typical configuration

defaults logfile	/var/www/var/log/msmtp/msmtp.log
# OVH	
account	ovh
host	ssl0.ovh.net
auth	on
port	465
from	info@example.com
user	info@example.com
passwordeval	"echo \$MAILER_PASSWORD"
auth	on
tls	on
tls_trust_file	<pre>/etc/ssl/certs/ca-certificates.crt</pre>
tls_starttls	off
<pre># mailcatcher</pre>	
account	mailcatcher
host	10.0.2.2
port	1025
from	dummy@example.com
auth	off
auth tls	off off
auth tls # Set a defaul	off off

- Only runs on localhost, can't be shared
- Alternative: Mailtrap: similar functionality, but on a remote server (SaaS)
- Reference: https://blog.mailtrap.io/mailcatcherguide/