

A close-up of Keanu Reeves as Douglas Quaid from the movie Total Recall. He has a pained or intense expression, with his mouth open in a scream or shout. He is wearing a futuristic headpiece with two large, silver, cylindrical visors on either side of his head. The background is a blurred, futuristic interior with blue and green lighting.

TOTAL RECALL

STORY OF ONE FORM

WHOAMI

PHP developer at Unity Group

6+ years of coding

Organizer of corporate knowledge sharing
initiative - Coders



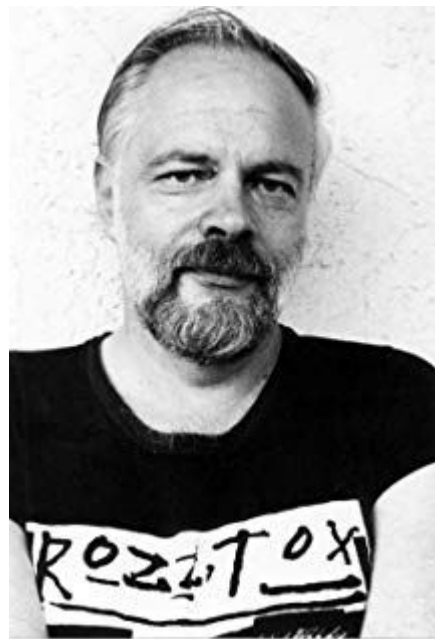
Shout-out

American science fiction writer

“Total recall” based at story from *“We Can Remember It for You Wholesale”* (1966)

Worth reading:

- *Do Androids Dream of Electric Sheep?*
- *The Man in the High Castle*



Philip K. Dick

Story setup

- Who?
 - Students at University of Technology
- What?
 - Startup with investor
- Where?
 - City in eastern Poland
- When?
 - Around 6-7 years ago
- How?
 - PHP 5.5 with CakePHP 2.x



PIEROGI /pɛ'ro:gi/

How we can code
“Forgot your password”

How we can code “Forgot your password”

- Send old password via email



How we can code “Forgot your password”

- Send new password via email



How we can code “Forgot your password”

- Answering security questions on website



How we can code “Forgot your password”

- Send reset password code via text message



How we can code “Forgot your password”

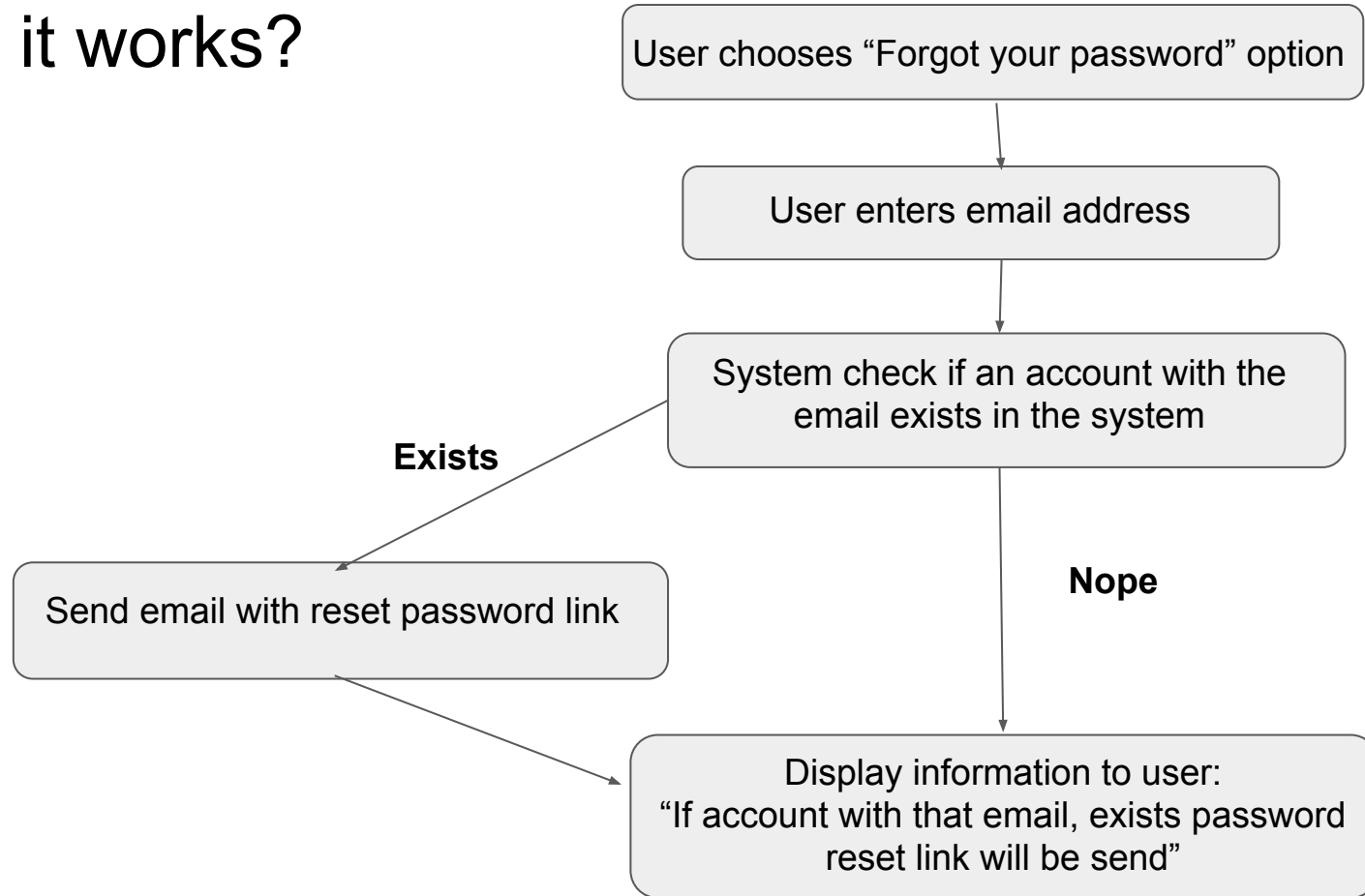
- Send reset password link via email



How we can code “Forgot your password”

- *Send old password via email*
- *Send new password via email*
- *Answering security questions on website*
- *Send reset password code via text message*
- **Send reset password link via email**

How it works?



What is important for that flow?

- Client has to receive email (sic!)
- Sending reminder should not block access to application
- Url to password reset should not be weak to manipulation

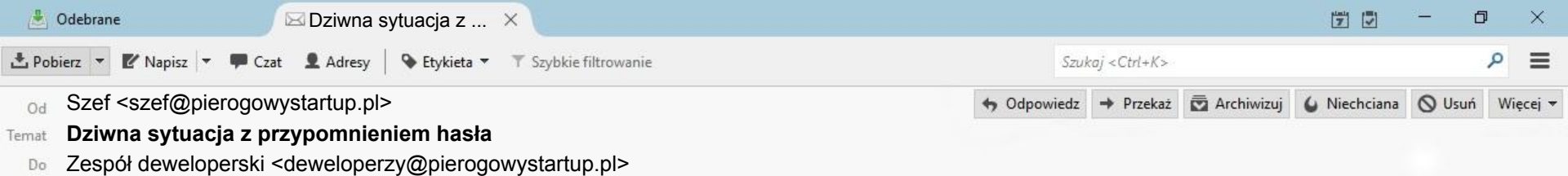
Did I mention it all?

**Nah, but we will get to
the point soon**

SMALL CITY IN EASTERN POLAND

MORNING



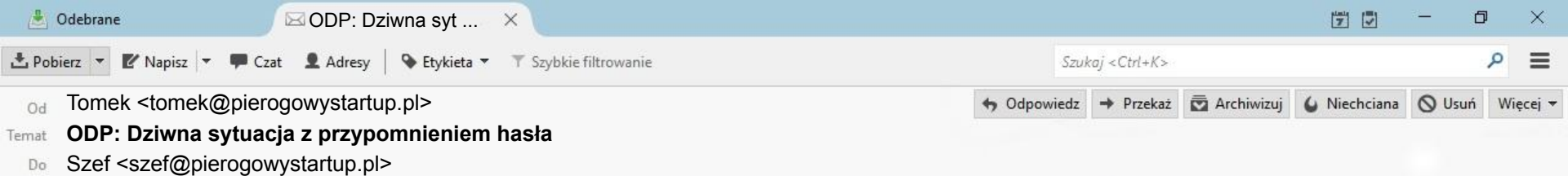


Dear team,

Something disturbing happen lately.

Just a minute ago I received a few mails for password reset in our application.

Is it some kind of a joke from some of you?



I don't think it is connected with any of our tasks in current sprint.

Also I'm completely sure that nobody would be so immature, to make such silly and childish joke.



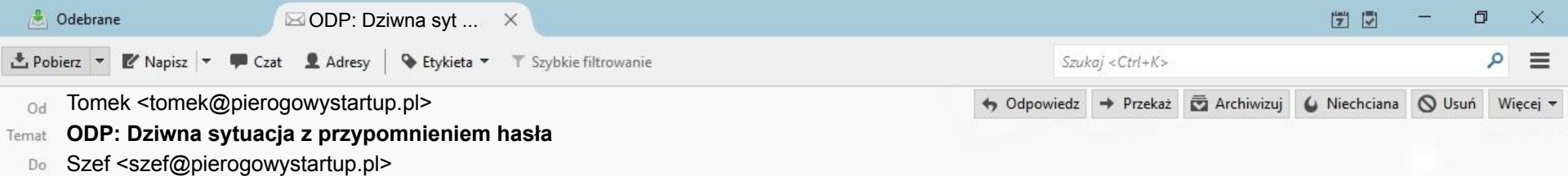
WE ARE
PROFESSIONALS!

2 HOURS LATER





I would like to inform you, that I
keep receiving this emails!
It's become annoying like hell!

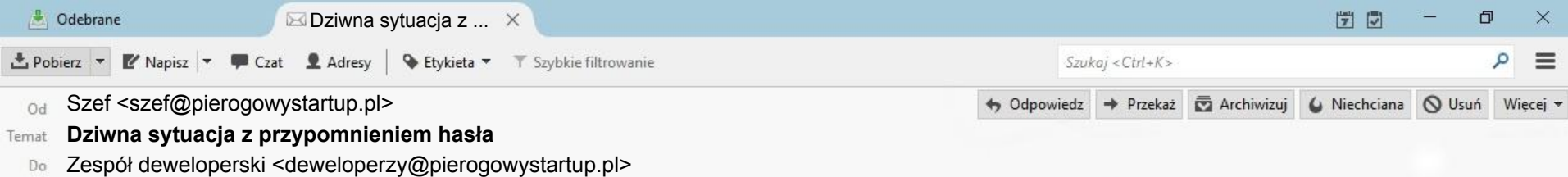


Yes, I can only imagine that.
Furthermore, I would like to suggest
cause of all this commotion:
It is possibly one of our beta testers.
However, if you try to ask one of them
about this emails, problem with emails
might escalate even more.

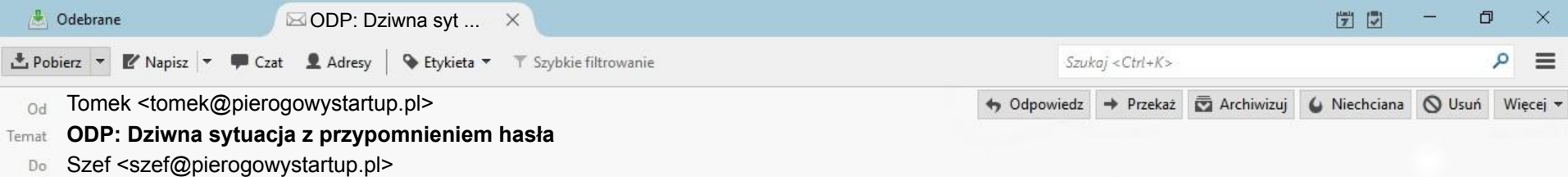


Maybe you could just create a task in JIRA and we will take care of it in free time.

Hopefully, before we've taken care of it, these jokers will get bored.



Ok Thomas,
I will create those tasks,
but I still need something to limit new email
notifications.
They are really getting out of hand!
Could any of you come up with any solution?



Sure thing boss,

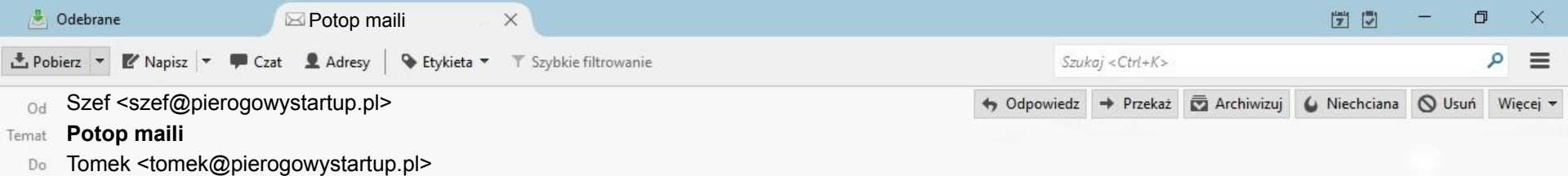
I suggest add filter on email application,
that will help you ignore all new emails.

It will be as easy for you as it can be,
because Michael will do it.

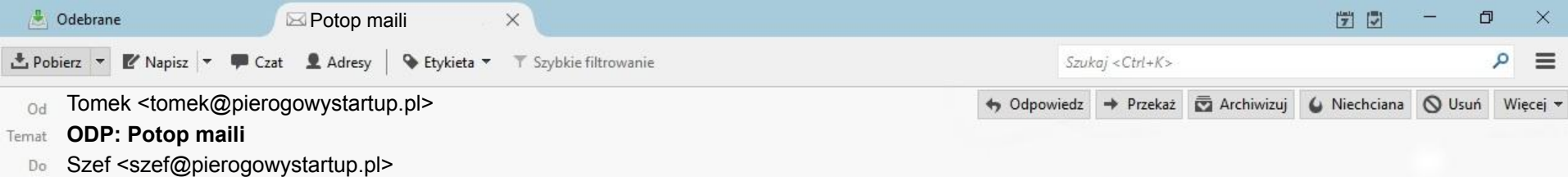
Furthermore, we can probably take care of
that bug soon, maybe tomorrow.

1 HOUR 12 MINUTES LATER





Haven't you forgotten about topic with emails?
I've just checked that folder created by Michael,
and it's full of that notifications
right now it's around 900 emails!
There is like twentish emails per minute!



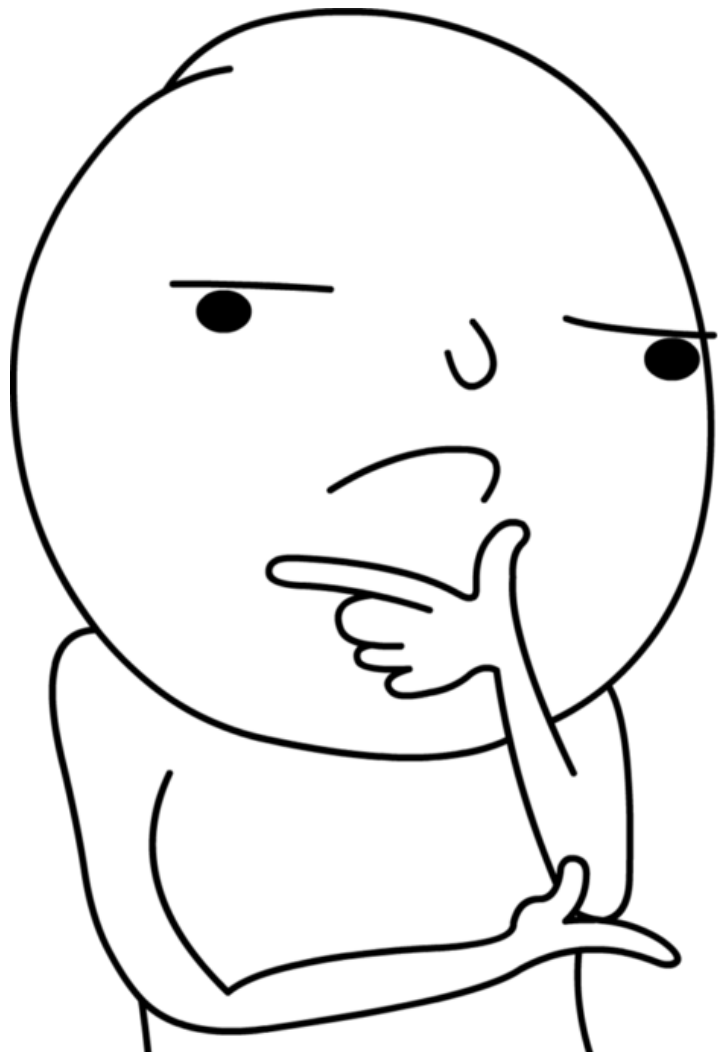
Uh oh,

In this case the problem is more important that we thought.

We will take actions immediately, blocking access to form and fixing the bug.

What happen next?

- Quick blocking form and action,
- Fixing functionality
 - added check of last password reminder
- Added CSRF field verification to the form



**Let's analyze
whole situation**

What is origin source of all those
request?

Common part?

123.45.67.89	-	-	[06/Nov/2014:14:10:20 +0200]	[..]
123.45.67.89	-	-	[06/Nov/2014:14:10:20 +0200]	[..]
123.45.67.89	-	-	[06/Nov/2014:14:10:21 +0200]	[..]
123.45.67.89	-	-	[06/Nov/2014:14:10:21 +0200]	[..]
123.45.67.89	-	-	[06/Nov/2014:14:10:22 +0200]	[..]
123.45.67.89	-	-	[06/Nov/2014:14:10:22 +0200]	[..]
123.45.67.89	-	-	[06/Nov/2014:14:10:23 +0200]	[..]
123.45.67.89	-	-	[06/Nov/2014:14:10:23 +0200]	[..]
123.45.67.89	-	-	[06/Nov/2014:14:10:24 +0200]	[..]
123.45.67.89	-	-	[06/Nov/2014:14:10:24 +0200]	[..]
123.45.67.89	-	-	[06/Nov/2014:14:10:25 +0200]	[..]

The background of the page features a network diagram in the upper left corner, consisting of white nodes connected by thin lines. The lower portion of the page shows a sunset or sunrise scene with a large, golden sand dune in the foreground and distant mountains under a gradient sky transitioning from orange to dark purple.

Whois Lookup

213.180.141.140

Search

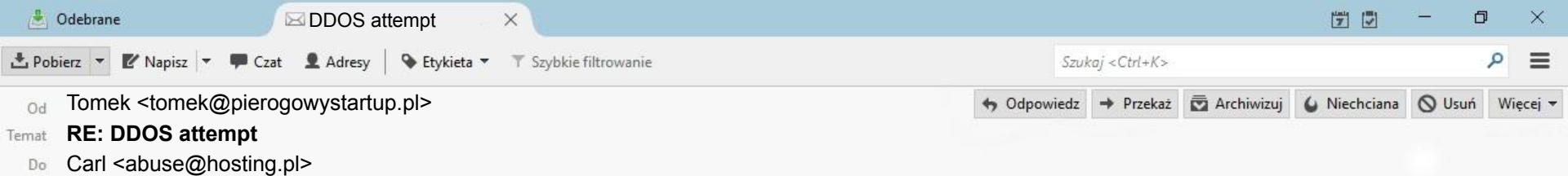
[Home](#) > [Whois Lookup](#) > 213.180.141.140

IP Information for 213.180.141.140

— Quick Stats

IP Location	 Poland Krakow Ringier Axel Springer Polska Sp. Z O.o.
ASN	 AS12990 ONET-PL-AS1 Onet.pl portal network, PL (registered Feb 11, 2000)
Resolve Host	sg1.any.onet.pl
Whois Server	whois.ripe.net
IP Address	213.180.141.140
Reverse IP	4 websites use this address.

% Abuse contact for '213.180.141.0 - 213.180.141.255' is ' abuse@onet.pl '



Good morning,

Lately we got problem with somebody trying to take down our application.

Attack came out from IP address in your domain. From following IP address was send series of attacks, that disrupted correct work of our platform.

In attachments I enclose logs from the application.



Good morning,

Thank you for letting us know, we'll take care of everything asap.

We always take such reports very seriously.

Carl

SOME TIME LATER



Congratulations for you
on the quick resolution
of the email issue

It only took 2 days, and
around 1200 messages
in my inbox

Also congratulations
from software house
ABC

What about ABC?

Apparently abuse
emails to ISP are taken
very seriously

How MUCH, seriously?

Well.. It took them like 3
hours to connect
second internet link



WHAT HAPPEN NEXT?



An aerial photograph of a city, likely New York City, showing a dense urban landscape with various buildings, streets, and a clear blue sky with a few clouds. A large white rectangular box with a black border is superimposed over the center of the image, containing the text.

**DON'T LAUNCH FUNNY SCRIPTS
FROM COMPANY NETWORK**

Questions?



**Thank you for
your attention**

