

TorqueBox

Moc Javy – piękno Rubiego



Marek.





BoxGrinder

JBoss AS 7

+

fedora^f

=



project: **odd**



No, do rzeczy panie!

Dziś w menu:

50 / 40 / 10

**Czym jest
TorqueBox?**

Ruby i Java? Huh?

DO RZECZY!



Cel.

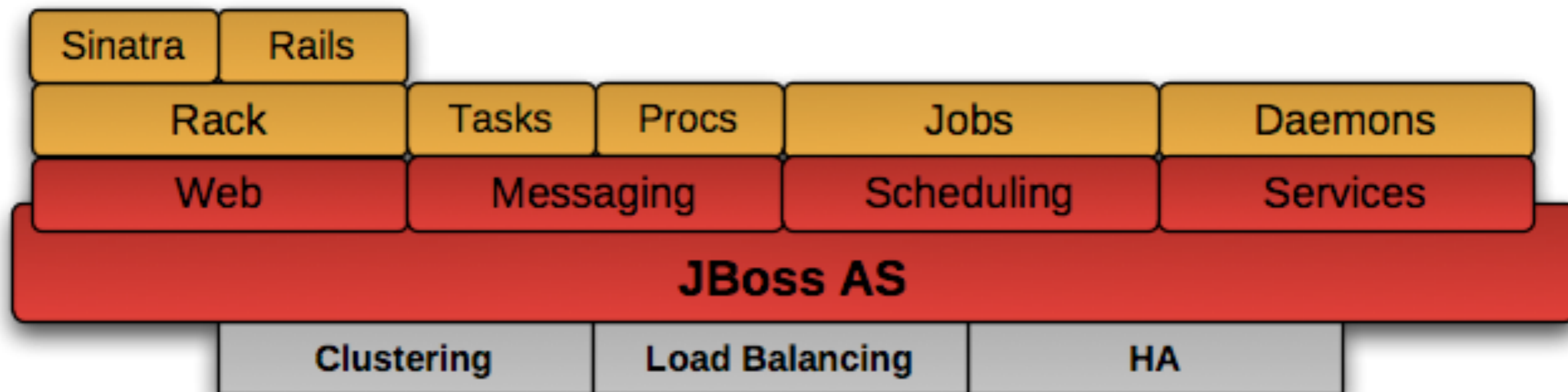
**Web: Rails, Sinatra,
Rack.**

**Ponadto:
wiadomości,
zadania, usługi, [...].**

**Brzmi
znajomo?**

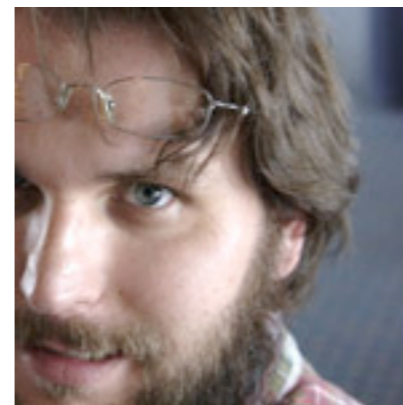
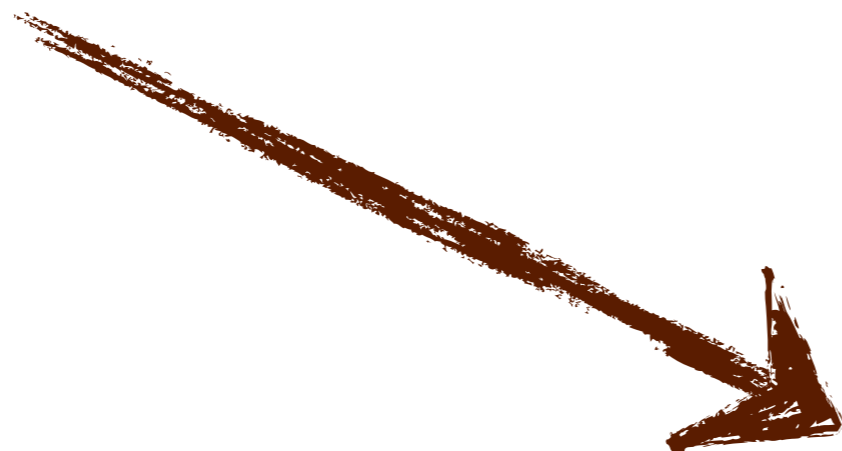
**Java już to ma,
wykorzystajmy to!**

**Randkowanie
JBoss AS oraz
Ruby.**



Ale dlaczego Ruby?

Bob lubi Rubiego.



Dynamiczny.

Brak kompilacji.

Liberalny.

Związły.

```
Set<Person> people = new HashSet<Person>();

for (Team each : teams) {
    people.addAll(each.getMembers());
}

for (Person each : people) {
    each.promote();
}
```

com/foo/Anything.java

```
teams.  
  collect(&:members).  
    flatten.uniq.each &:promote!
```

anything.rb

**Wporzo, ale co z
wydajnością?**

JRuby FTW!

**Bardzo szybkie
środowisko.**

Prawdziwe wątki.

**Biblioteki Javy, za
free.**



TB 1.x – JBoss AS 6

TB 2.x – JBoss AS 7

Instalacja.

```
$ wget http://torquebox.org/builds/LATEST/torquebox-dist-bin.zip
$ unzip -q torquebox-dist-bin.zip

$ export TORQUEBOX_HOME=$PWD/torquebox-1*
$ export JBOSS_HOME=$TORQUEBOX_HOME/jboss
$ export JRUBY_HOME=$TORQUEBOX_HOME/jruby
$ export PATH=$JRUBY_HOME/bin:$PATH
```

**Zbyt
skomplikowane?**

```
$ gem install torquebox-server --pre \  
  --source http://torquebox.org/2x/builds/  
LATEST/gem-repo/
```

```
$ torquebox run
```


**Tak, na Windowsie
również.**

**Zainstalowane, co
dalej?**

**Aplikacja webowa,
powiedzmy Rails.**

```
$ rails new app -m \  
  $TORQUEBOX_HOME/share/rails/template.rb  
$ cd app  
$ rake torquebox:deploy[ '/app' ]
```

<http://localhost:8080/app/>

**To może jakiś kod
co działa?**

```
$ rails g scaffold Coffee \  
  name:string description:text  
$ rake db:migrate
```

<http://localhost:8080/app/coffees/>

Demo!

**Nie takie rzeczy
widziałem!**

Integracja z Java.

Ruby

```
class SomeController  
  def index  
    session[:password] = 'sw0rdfish'  
  end  
  
end
```

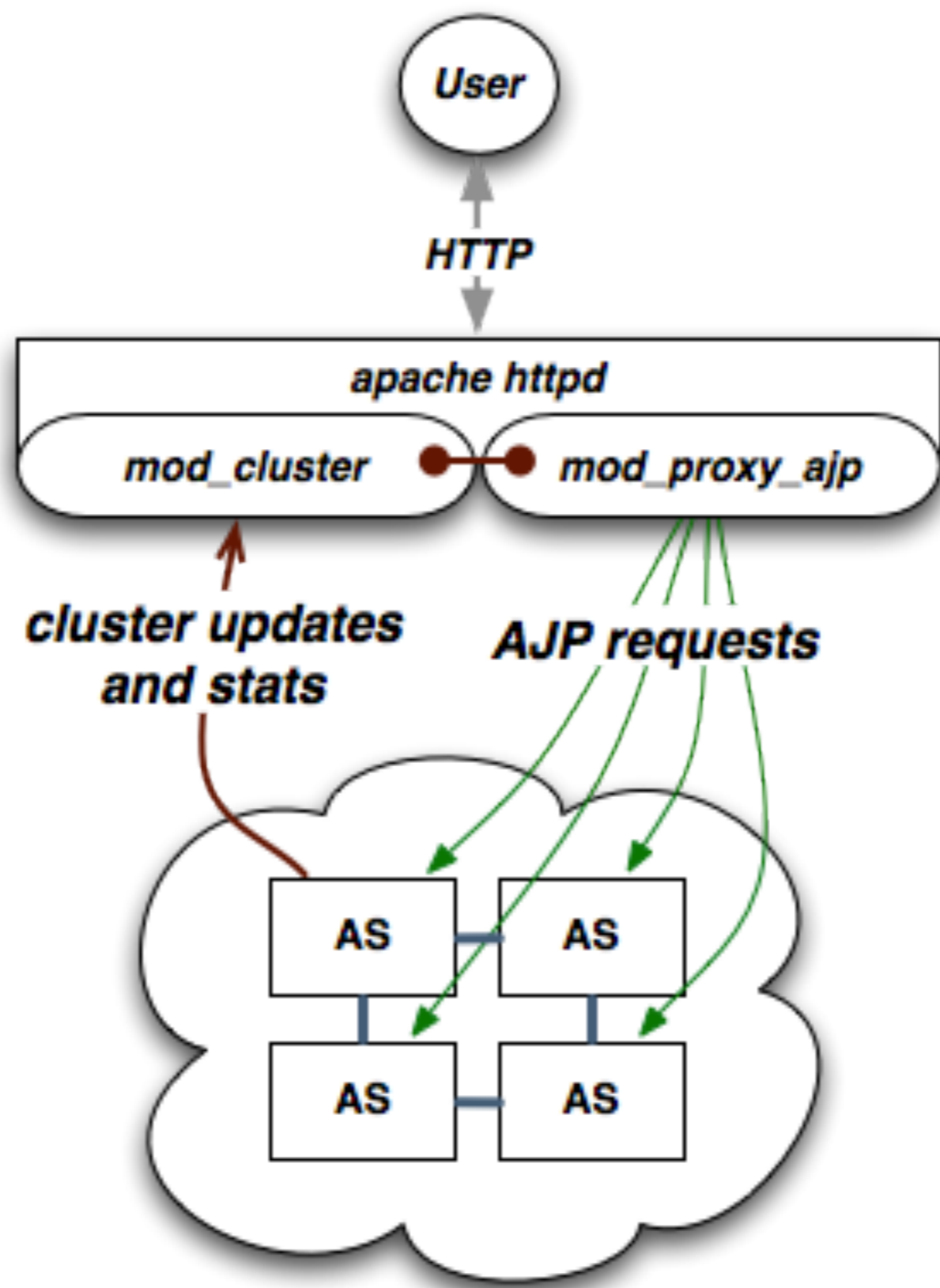
Java

```
public class SomeServlet {  
    public void doGet(HttpServletRequest req,  
                       HttpServletResponse resp) {  
        request.getSession().getValue("password");  
    }  
}
```

Klastrowanie?

Sklastruj JBoss'a!

mod_cluster



**Dynamiczna
konfiguracja!**

**Koniec o
aplikacjach
webowych.**

**Zaplanowane
zadania.**

```
class NewsletterSender
  def run
    subscriptions = Subscription.find(:all)
    subscriptions.each do |e|
      send_newsletter(e)
    end
  end
end
```

app/jobs/newsletter_sender.rb

```
jobs:  
  monthly_newsletter:  
    description: first of month  
    job: NewsletterSender  
    cron: '0 0 0 1 * ?'
```

config/torquebox.yml

Messaging.

Zadania w tle.

```
class Something
  def foo
  end

  def bar
  end
end
```

```
something = Something.new  
something.foo  
something.bar
```



```
class Something
  include TorqueBox::Messaging::Backgroundable

  def foo
  end

  def bar
  end
end
```

```
something = Something.new  
something.background.foo  
something.bar
```

```
class Something
  include TorqueBox::Messaging::Backgroundable
  always_background :foo

  def foo
  end

  def bar
  end
end
```

```
something = Something.new  
something.foo  
something.bar
```

Kolejki.

queues:

 /queues/questions

 /queues/answers

topics:

 /topics/new_accounts

 /topics/notifications

config/torquebox.yml

```
messaging:  
  /topics/print:  
    PrintHandler:  
      color: 'red'  
  /queues/popular:  
    AdultObserver:  
      filter: "age >= 18"  
      concurrency: 5
```

config/torquebox.yml

```
include TorqueBox
```

```
queue = Messaging::Queue.new '/queues/foo'  
queue.create
```

```
...
```

```
queue.destroy
```



```
include TorqueBox::Messaging
```

```
class PrintHandler < MessageProcessor  
  def initialize(opts)  
    @color = opts['color']  
  end  
  def on_message(body)  
    puts "#{body} in #{@color}"  
  end  
end
```

config/torquebox.yml

Usługi.

**Nie-webowe, długie
demony.**

```
class MyService
  def initialize(opts={})
    @queue = Messaging::Queue.new(opts[:queue])
  end
  def start
    Thread.new { run }
  end
  def stop
    @done = true
  end
  def run
    until @done
      @queue.publish(Time.now)
      sleep(1)
    end
  end
end
end
```

app/processors/my_service.rb

Cacheowanie.

Wstrzykiwanie.

```
package com.mycorp;
```

```
@ApplicationScoped
```

```
class Something {
```

```
    @Inject
```

```
    private Else else;
```

```
    public void print(String what) {
```

```
        # blah
```

```
    }
```

```
}
```

```
@ApplicationScoped
```

```
class Else {
```

```
}
```

```
class MyService
  include TorqueBox::Injectors

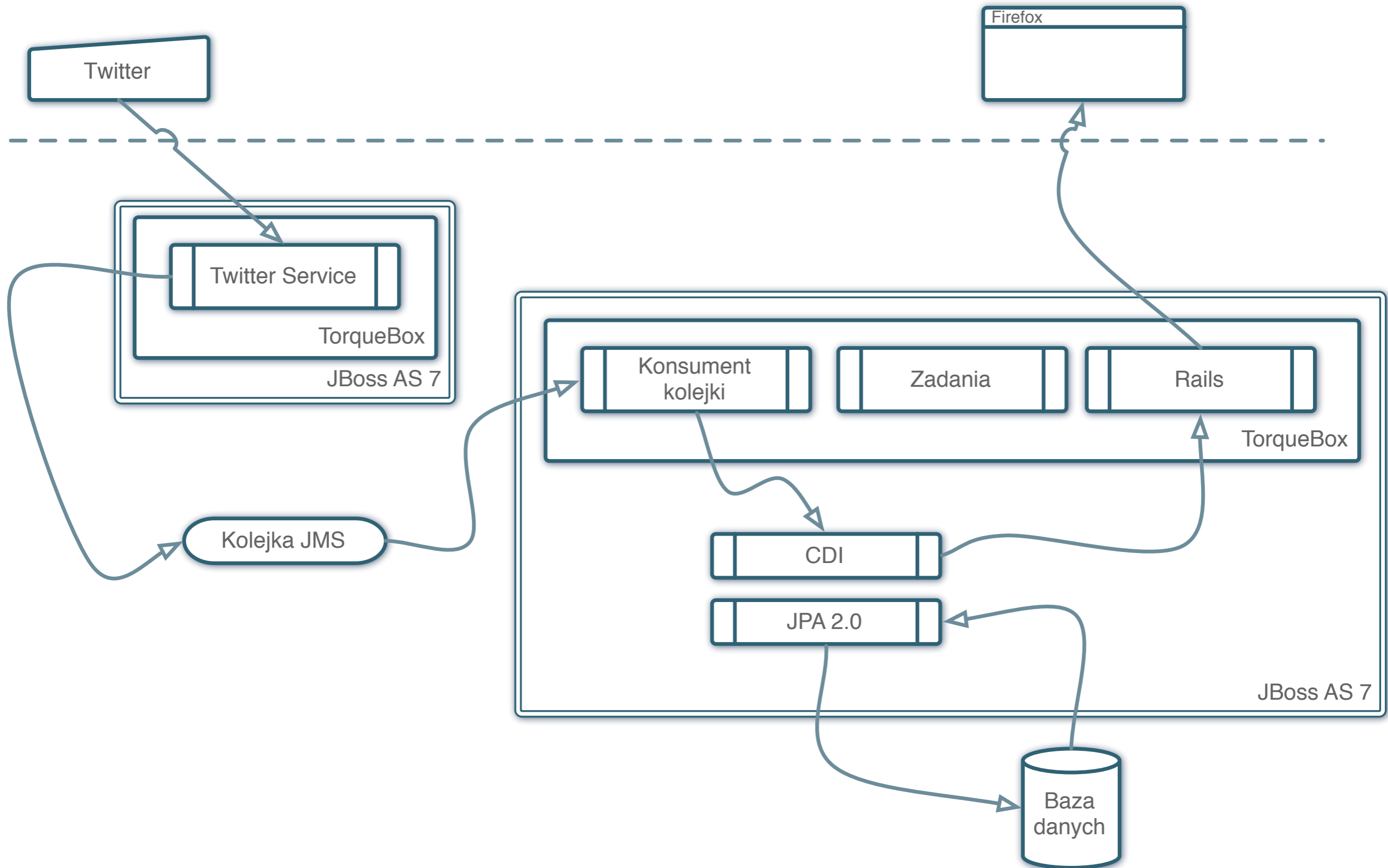
  def initialize(opts={})
    @thing = inject(Java::com.mycorp.Something)
    @thing.print('Marek')
  end
end
```


**CDI to tylko
przykład: kolejki,
tematy, heroína,
inne rzeczy.**

**Drugs are bad,
m'kay?**

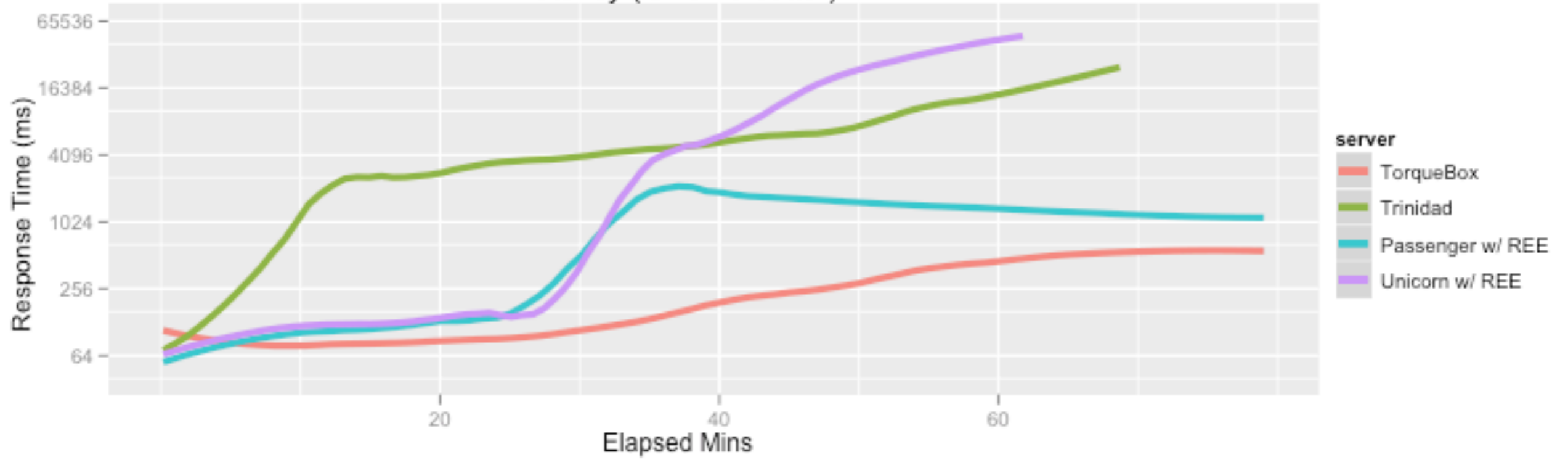
```
inject_topic( "/topics/questions" )  
inject_queue( "/queues/answers" )  
inject_namig( "java:comp/env/jdbc/myDS" )
```

Demo!

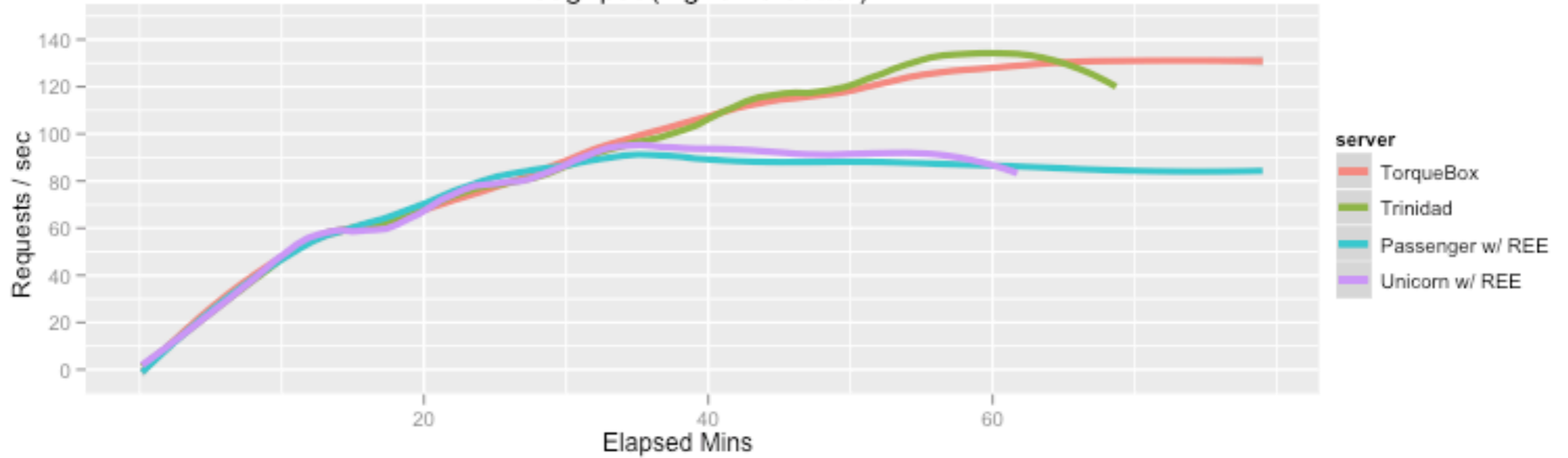


**OK, fajnie, ale jak to
jest wydajne?**

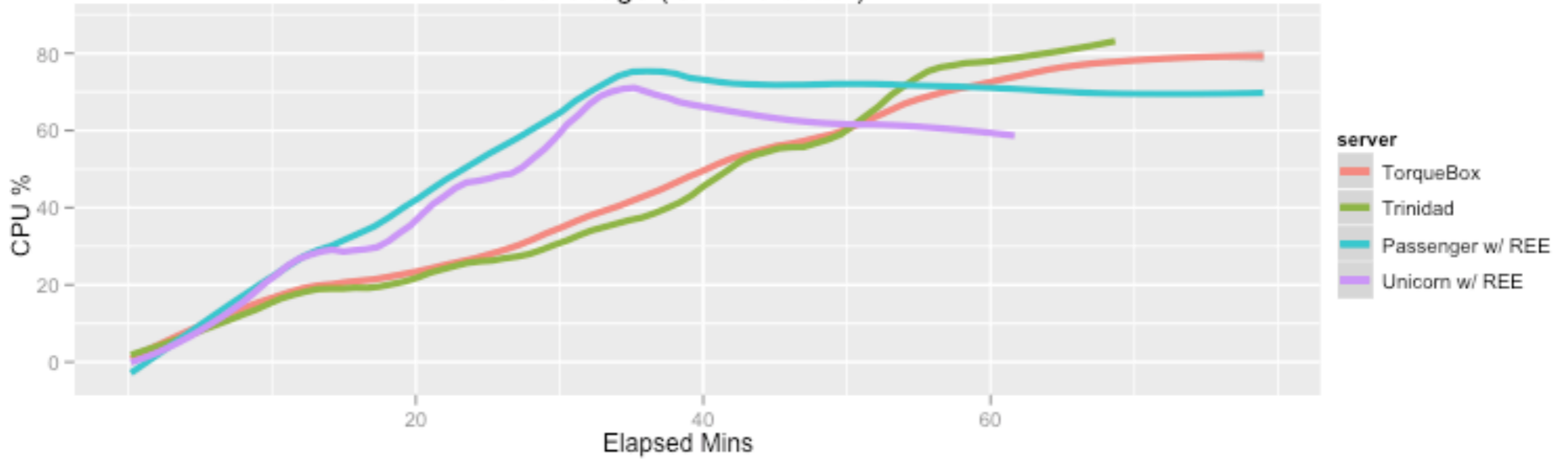
Latency (lower is better)



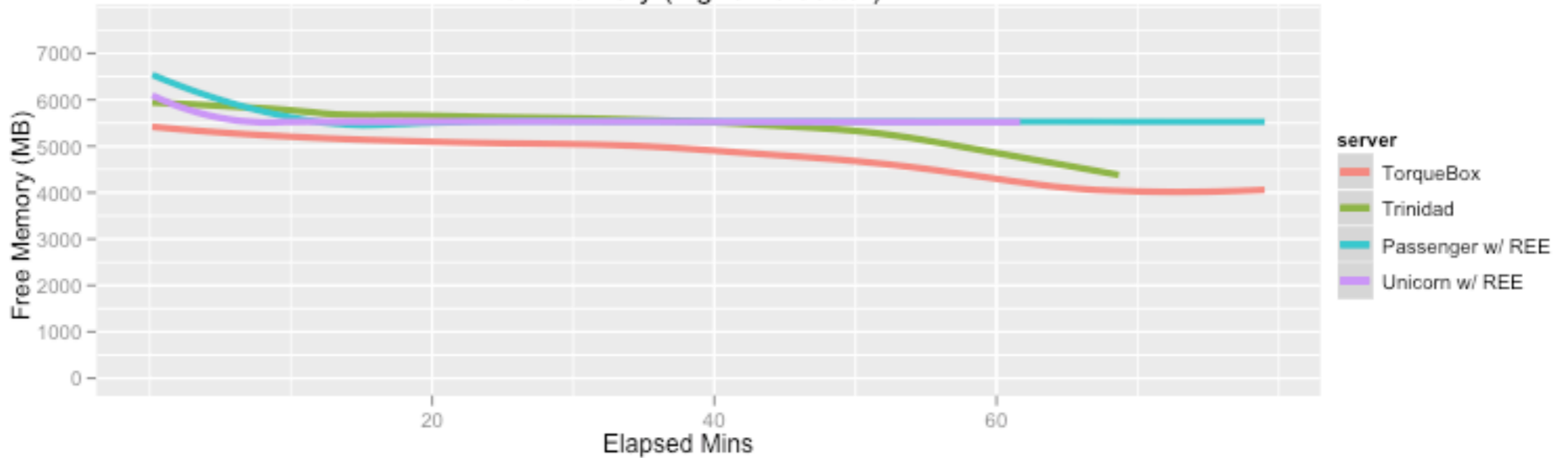
Throughput (higher is better)



CPU Usage (lower is better)



Free Memory (higher is better)



<http://torquebox.org/>

<http://github.com/torquebox>

[http://github.com/goldmann/
confitura-2011-torquebox-demo](http://github.com/goldmann/confitura-2011-torquebox-demo)

IRC: #torquebox on FreeNode

@torquebox



Dzięki.

**Nie zapomnij o
naklejkach!**