

AP4R

Asynchronous Processing for Ruby



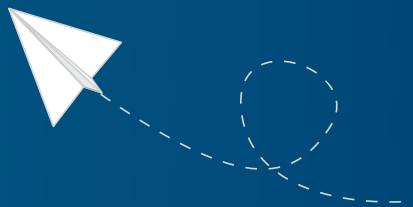
what is it?

- asynchronous job processor
- you mean like backgroundrb?
- yes! and no!



features

- async. message queueing and dispatching
- reliable messaging
- load balancing



the specials

- `async` logic without extra workers
- an `async` task is just another controller action
- supports `http post`, `soap`, `xmlrpc`



delivery

- immediately through drb
- store and forward
 - first store message (through activerecord)
 - then deliver
 - ensures guaranteed delivery



message storage

- file based
- database (for now only mysql)



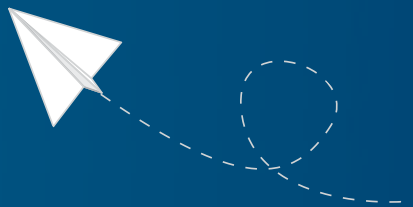
scenarios

- mass mailings
- cache sweeping
- search index rebuilding
- feed aggregation



setup

- ap4r is a gem
- and a plugin
- setup
 - `ap4r_setup ap4r_server`
 - install rails plugin

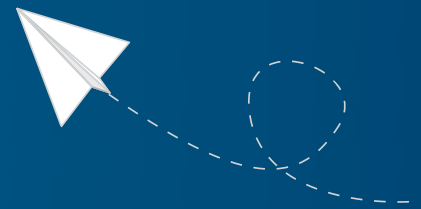
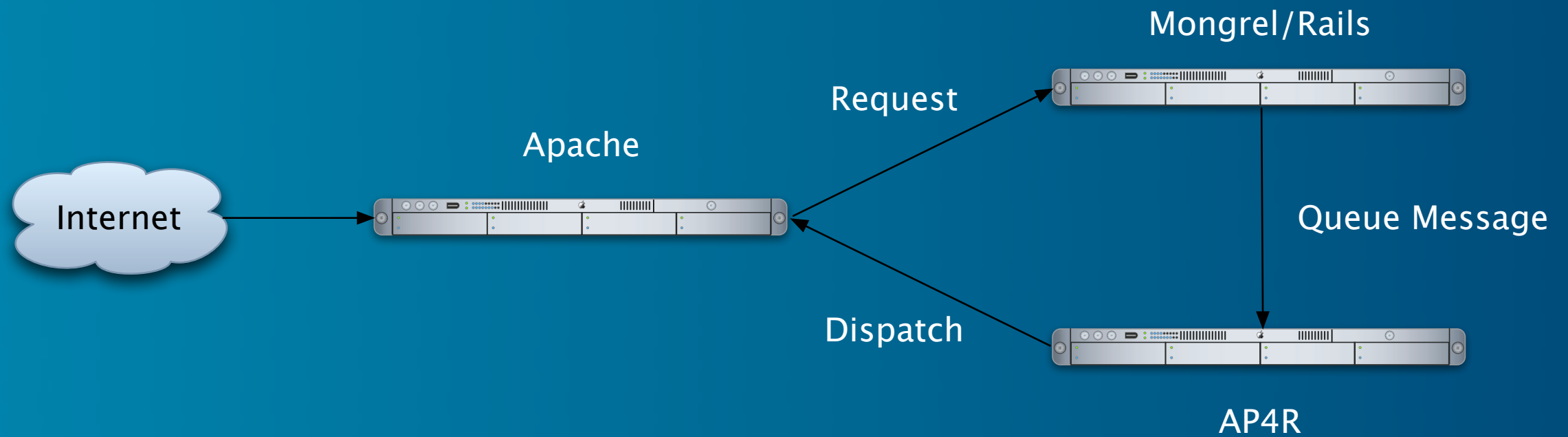


setup

- ap4r dispatcher runs with mongrel
- checks for messages and dispatches

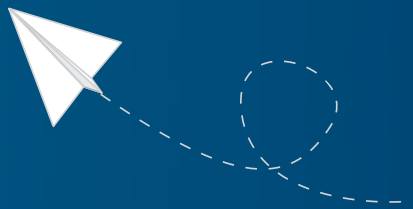


how it works



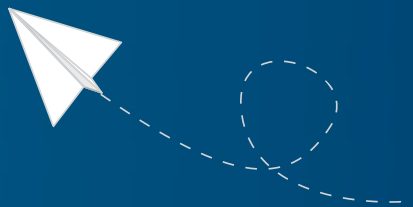
but what about backgroundrb?

- ap4r is simpler
- integrates more seamlessly with rails
- it can async'ly execute http calls on any http server



but i love backgroundrb!

- what's in the background stays in the background
- no scheduling support
- but backgroundrb doesn't have reliable scheduling anyway

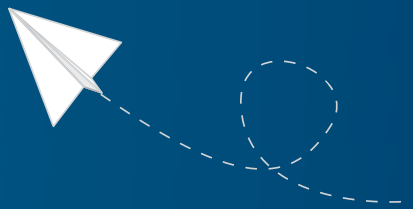


code!

- immediate delivery

```
ap4r.async_to( {:controller => 'search', :action => 'reindex'},  
              {:id => 12} )
```

```
ap4r.async_to( {:url => 'http://localhost:8080/someServlet'},  
              {:id => 12} )
```

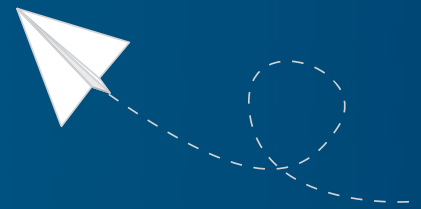


code!

- store and forward

```
ap4r.transaction do
  ap4r.async_to( { :controller... },
                { :id => 12 } )
```

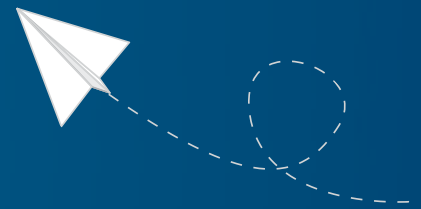
```
end
```



code!

- store and forward

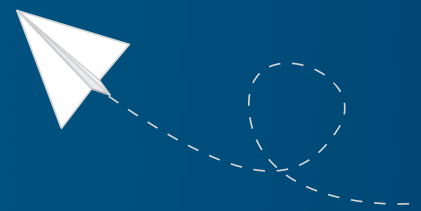
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end
```



code!

- store and forward

```
ap4r.transaction do
  ap4r.async_to( {:controller...},
                {:id => 12} )
end
```



further reading

- <http://www.infoq.com/news/2007/06/messaging-with-ap4r>
- <http://ap4r.rubyforge.org/wiki/wiki.pl?GettingStarted>
- http://rubyforge.org/docman/view.php/1765/1257/AP4R_on_RubyKaigi2007_EN.pdf



thanks!

