

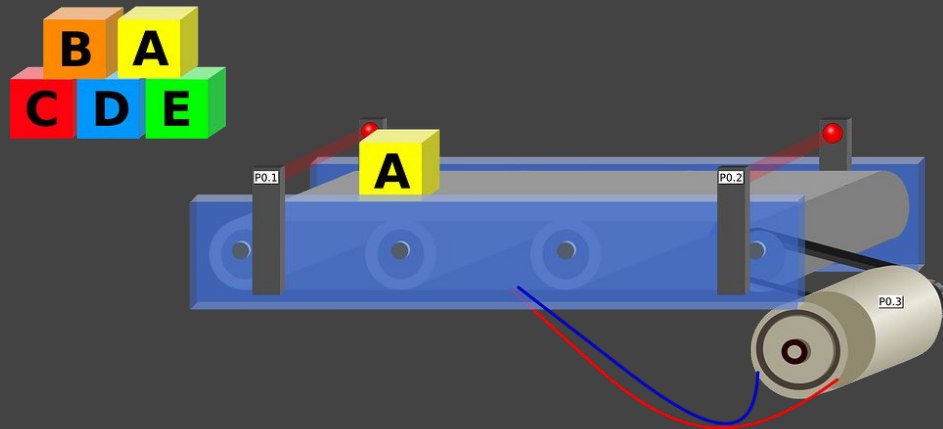
Small and frequent deliveries!



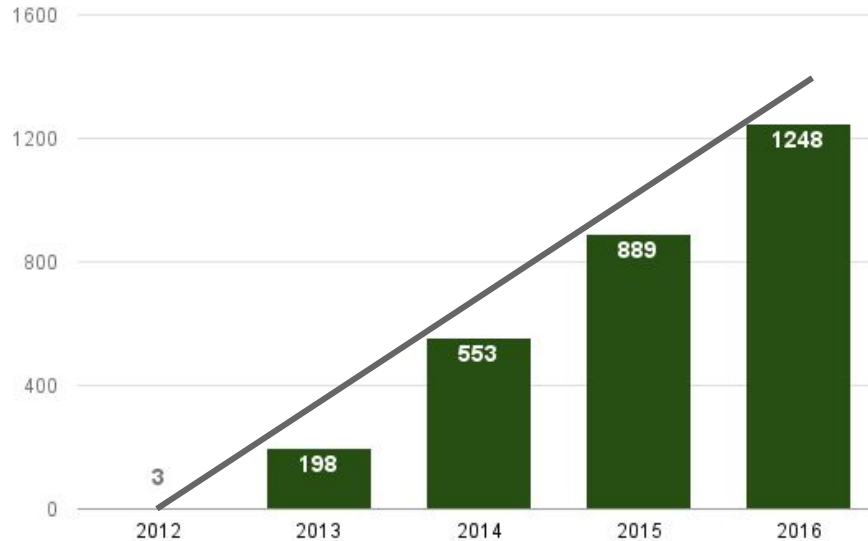
Ivar Conradi Østhus

Twitter @ivarconr

Epost ico@finn.no



Deployments in “week 38”, last few years

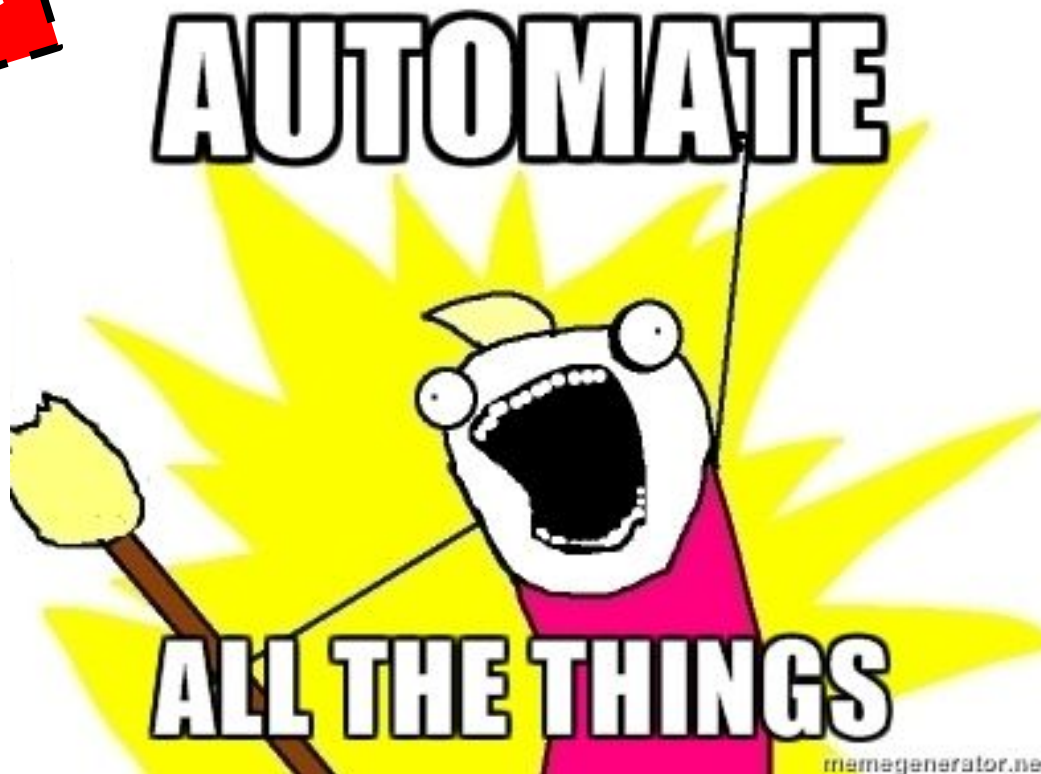




How do we
do it?

~1250 changes
rolled out to production
every week

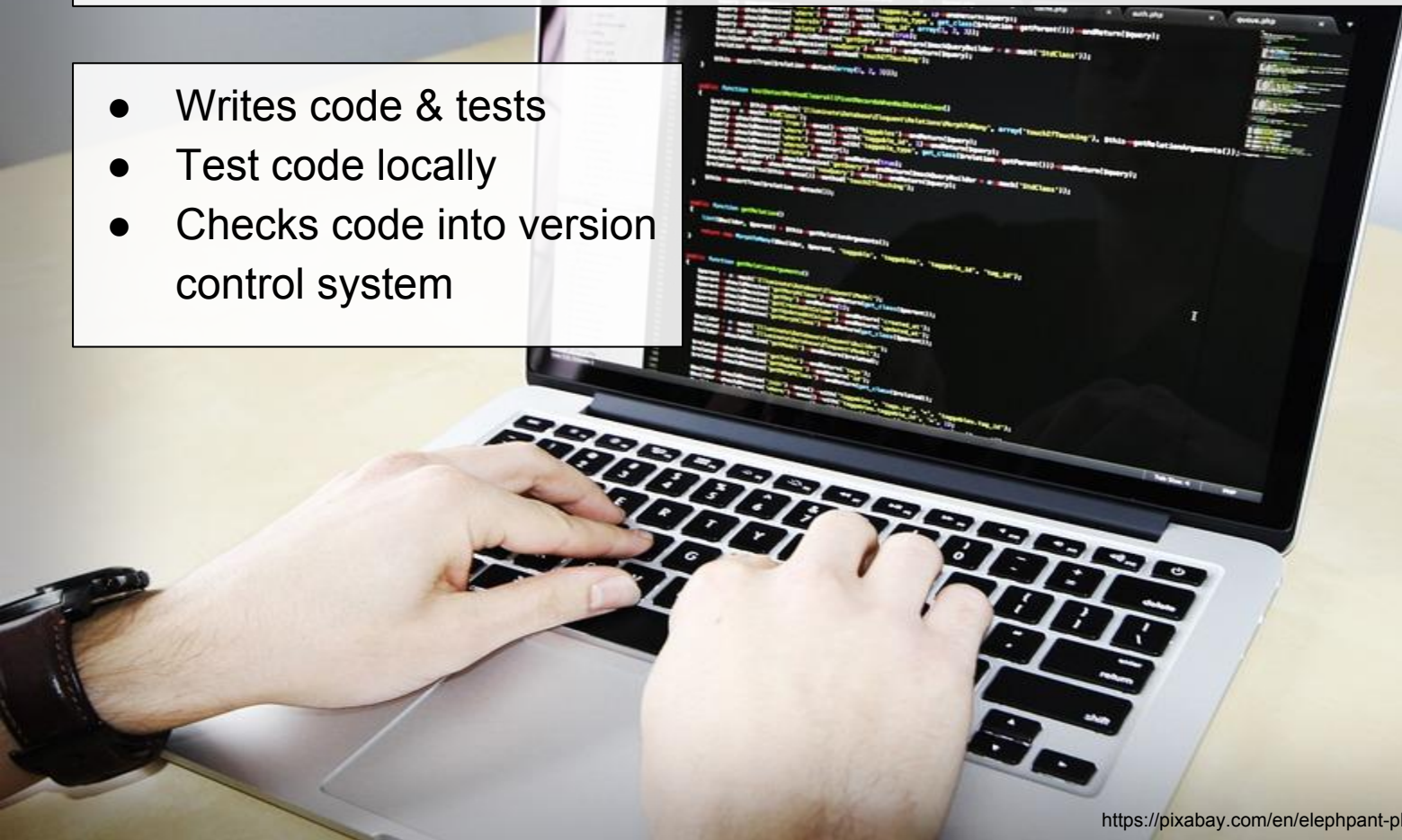
The secret



Step 1: A developer writes a new feature



- Writes code & tests
- Test code locally
- Checks code into version control system



The master “branch” is our
highway to production!

Pipeline

[All pipelines](#)[+ New project](#)[History](#)[Admin](#)[mobile - master](#)[Fransie Kjerneteam](#)[Sok og annonser](#)[Soa](#)[Høyt-i-stacken](#)[Mfinn](#)[Details view](#)[Dashboard view](#)[Edit view](#)

finn-mobile-3.0.0-20161102.100556-6649.war

[\(details\)](#)

[maraustd](#) 5e12704 [\(diffs\)](#)

ADOUT-2440: Add popular flag to category specific widget

build
build overview
32 minutes ago

finn-mobile-3.0.0-20161102.091753-6648.war

[\(details\)](#)

[maraustd](#) d306da4 [\(diffs\)](#)

ADOUT-2426: Remove surveys for bap categories

[Marte Helene Austdal](#) 59f050d [\(diffs\)](#)

Merge pull request #2411 in APPS/mfinn from mp/ADOUT-2426_cleanup_old_bap_sur...

build
build overview
an hour ago

DEV
(6 / 6)
an hour ago

Integration test DEV
an hour ago

Verified
by <unknown>
an hour ago

[stop](#)

PROD-Deploy
(21 / 21)
an hour ago

PROD-Smoketest
(21 / 21)
an hour ago

finn-mobile-3.0.0-20161102.090325-6647.war

[\(details\)](#)

[maraustd](#) b4749e6 [\(diffs\)](#)

ADOUT-2390: Set correct selected state on TreeNode

[Marte Helene Austdal](#) 3261270 [\(diffs\)](#)

Merge pull request #2409 in APPS/mfinn from mp/ADOUT-2390_multiSelect_zeroHit...

build
build overview
2 hours ago

DEV
(6 / 6)
2 hours ago

Integration test DEV
an hour ago

Verified
by maraustd
an hour ago

[stop](#)

PROD-Deploy
(21 / 21)
an hour ago

PROD-Smoketest
(21 / 21)
an hour ago


Step 2: CI builds the artifact



- Compile code
- Verify code quality
- Execute tests
- Build artifact
- Upload artifact

Step 3: Deploy to dev





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[mobile - master](#) [Framsie Kjerneteam](#) [Sok og annonser](#) [Soa](#) [Høyt-i-stacken](#) [Mfinn](#)[Details view](#) [Dashboard view](#) [Edit view](#)

finn-mobile-3.0.0-20161102.100556-6649.war
[\(details\)](#)


 [maraustd](#) 5e12704 [\(diffs\)](#)
ADOUT-2440: Add popular flag to category
specific widget

build
build overview
32 minutes ago

DEV
(6 / 6)
30 minutes ago

Step 4: Run integration tests






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[mobile - master](#) [Framsie Kjerneteam](#) [Sok og annonser](#) [Soa](#) [Høyt-i-stacken](#) [Mfinn](#)

[Details view](#) [Dashboard view](#) [Edit view](#)

finn-mobile-3.0.0-20161102.100556-6649.war
[\(details\)](#)

 [maraustrd](#) 5e12704 [\(diffs\)](#)
ADOUT-2440: Add popular flag to category
specific widget


build
build overview
32 minutes ago

DEV
(6 / 6)
30 minutes ago

Integration test DEV
28 minutes ago

Step 5: Verify the artifact

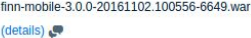






[All pipelines](#) [+ New project](#) [History](#) [Admin](#)

[mobile - master](#) [Framsie Kjerneteam](#) [Sok og annonser](#) [Soa](#) [Høyt-i-stacken](#) [Mfinn](#)

[Details view](#) [Dashboard view](#) [Edit view](#)


[\(details\)](#) 

 [maraustd](#) [5e12704 \(diffs\)](#)
ADOUT-2440: Add popular flag to category specific widget

build
build overview
32 minutes ago

DEV
(6 / 6)
30 minutes ago

Integration test DEV
28 minutes ago

Verified
by <unknown>
23 minutes ago [stop](#)

Step 6: Deployment to production



finn

Search for pipeline..

Q All pipelines + New project History Admin

mobile - master Fransie Kjerneteam Sok og annonser Soa Høyt-i-stacken Mfinn

Details view Dashboard view Edit view

finn-mobile-3.0.0-20161102.100556-6649.war
(details)

maraustrd 5e12704 (diffs)
ADOUT-2440: Add popular flag to category specific widget

build
build overview
32 minutes ago

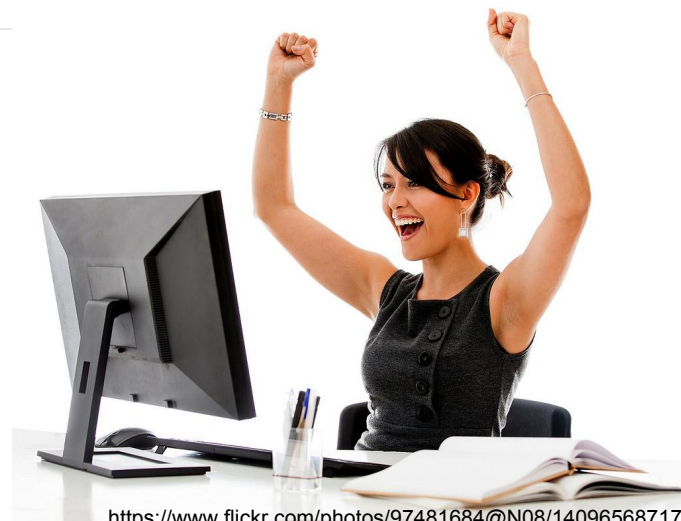
DEV
(6 / 6)
30 minutes ago

Integration test DEV
28 minutes ago

Verified
by <unknown>
23 minutes ago stop

PROD-Deploy
(21 / 21)
16 minutes ago

PROD-Smoketest
(21 / 21)
15 minutes ago



<https://www.flickr.com/photos/97481684@N08/14096568717>



Oh, my new feature is in **production**
what now?



-30%
PÅ FOSS BAD VARIANT
BADEROMSMØBLER

9 990,-
SPAR 4 705,-

**Fjord Semi
dusjkabinett**
91x91 cm. Pris inkl. dusjsett, men ikke
dusjbatteri. Gjelder ikke lav modell.

Bademiljø

Søk etter fotograf, frisør eller FINN-kode



Eiendom



Bil



Torget



Jobb



MC



Båt



Småjobber



Reise



Oppdrag



Nyttekjøretøy



Kart



Møteplassen



Shopping

Nå prøver vi noe nytt
Kjøp trygt fra norske nettbutikker

Lagrede søk

'torget', Torget

'firenze', Møbler og interiør, Akershus+Oslo, ...

'gøteborggata', Oslo, Finnmark

react.js

Flybilletter

Test new feature

Alle lagrede søk

Siste søk

Jobb ledig

Bolig til salgs

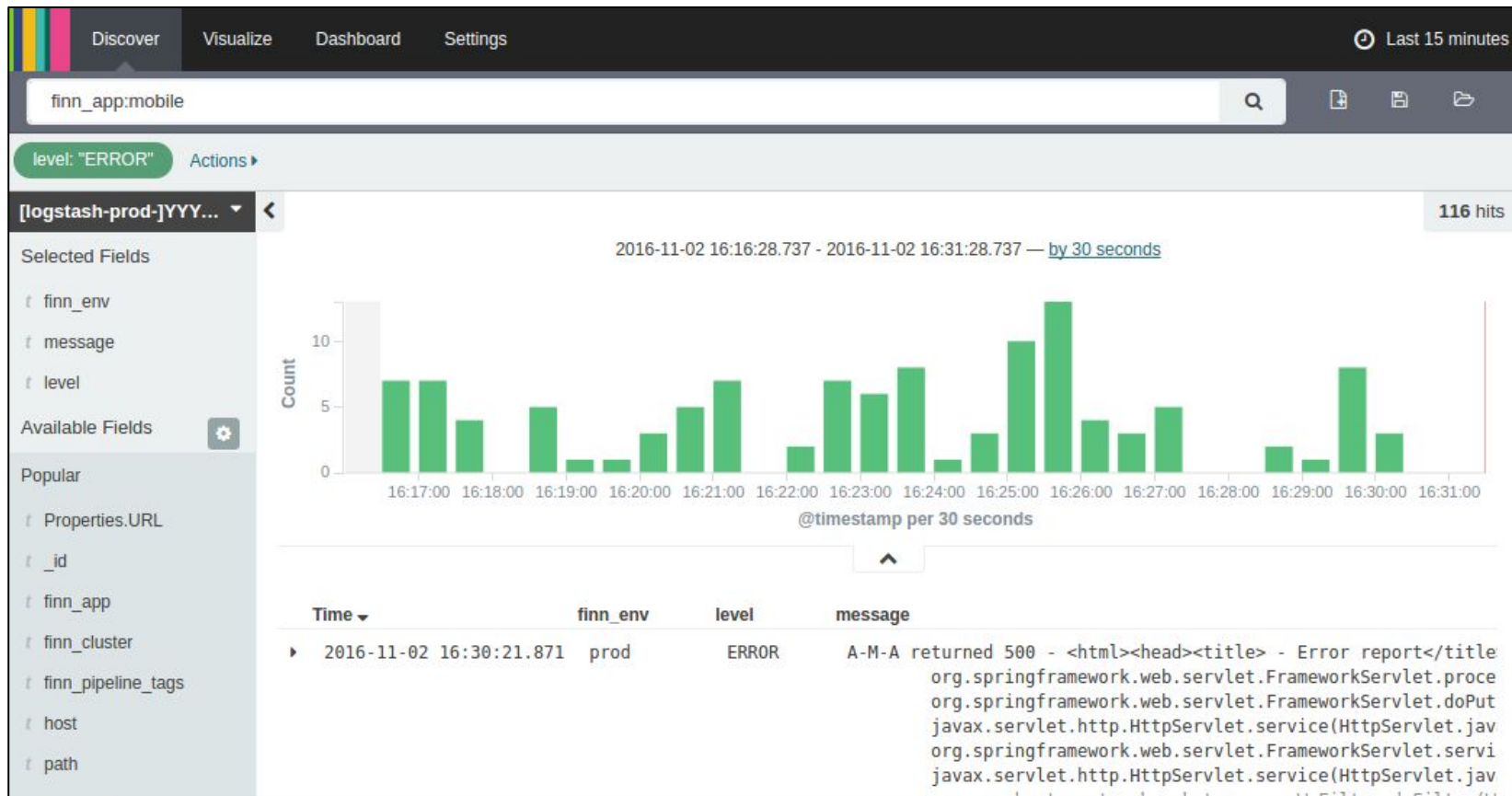
'react', IT utvikling, Jobb

Torget til salgs

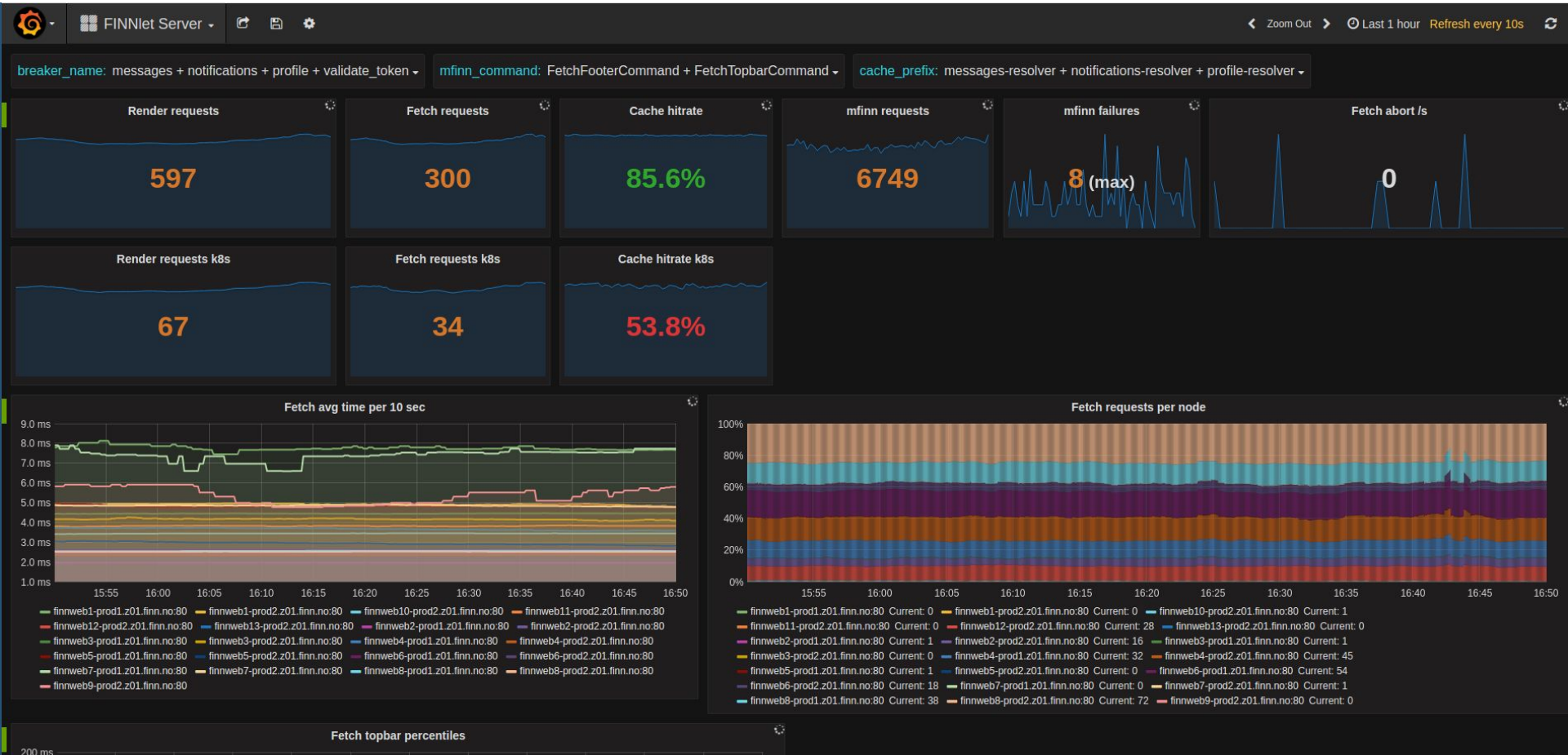
IT utvikling, Oslo, Jobb

Tøm lista

Check logs!



Check metrics!



Small and frequent releases

Fast feedback loop

- You know which code that caused a *failure*
- Fast to create a fix
- Less testing
- Real usage data

Feels good to deliver!



Large and infrequent releases







But not all new features
are **small...**

Feature Toggles!





decoupling
deployment of code
and
release of new features



```
if(unleash.isEnabled("AwesomeFeature")) {  
    //do some magic  
} else {  
    //do old boring stuff  
}
```

Activation Strategies



Rules that decides when a *feature toggle* is active

- Specific users
- Beta users
- Percentage of users

Unleash

open source feature toggle system



The screenshot shows the Unleash Admin interface. At the top is a navigation bar with tabs for 'Toggles', 'Strategies', 'Log', and 'Archive'. The 'Toggles' tab is active. Below the navigation bar is a header section with the title 'Feature Toggles' and a 'Create feature toggle' button. A search bar labeled 'Filter by name or strategy' is positioned above a table of feature toggles. The table has two columns: 'Name' and 'Strategy'. Each row represents a feature toggle and includes a status indicator (green for enabled, red for disabled), the toggle name, its description, the strategy, and three action buttons (delete, edit, and a menu icon).

Name	Strategy
Notification.api.new Use the new API for Notifications	betaUserAndGradualRollout
ad-input.UsePostgresAttributeAccessor Toggle use of postgres/sybase attributeAccessor	default
ad-management.disable.AdStateChangedCallback Disable AdStateChangedCallback consumer	default
ad-management.disable.AdVettingApprovedCallback Disable AdVettingApprovedCallback consumer	default
ad-management.disable.AdVettingFraudCallback Disable AdVettingFraudCallback consumer	default

<https://github.com/finn-no/unleash>

Small and frequent deliveries



Allows us to move fast!

We use Feature toggles

Happier developers!





Takk for meg!



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