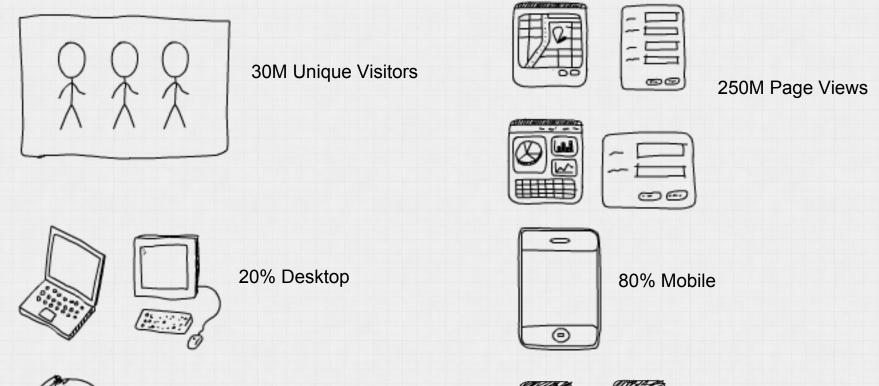
CONDÉ NAST

AWS Cost Optimization: from \$\$\$ to \$\$\$/4

Marco Viganò Digital CTO @Sasha0423



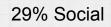
CN.numbers // by month





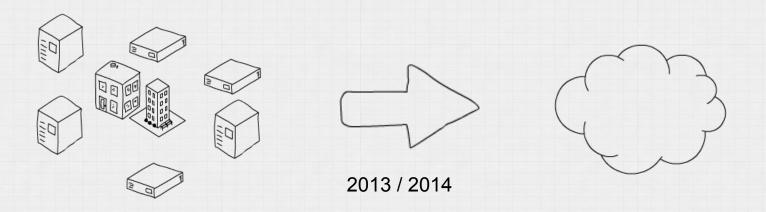
46% SEO





onPremise(CN) = Error 500 Internal Server Error

- Infrastructure scaling problems due to traffic boost
- Non optimal delivery and uptime
- Aggressive time to market
- No automation
- Costs



Wave 1: the pilot

| CN.pilot == | == "Wired.it" | | | |
|--------------------|---------------|-----------------|--------|--------|
| Engagement of team | | Cloud migration | | |
| Evaluation | Preparation | Migu | ration | Tuning |

CN #epicfail

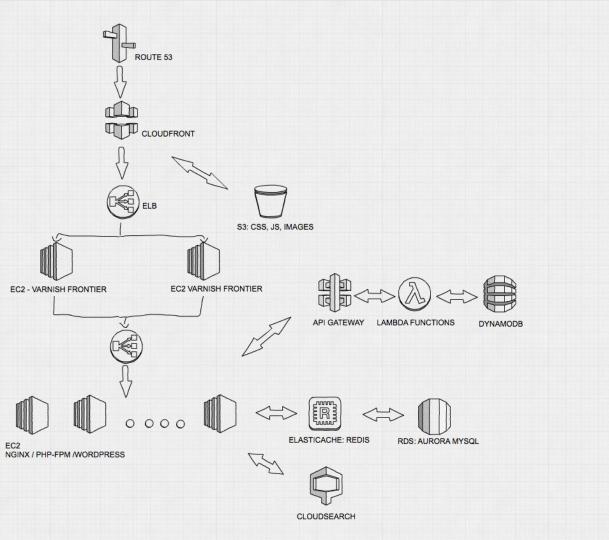
- Infrastructure migrated AS IS -> no optimization for the cloud
- 150 Server + 30 DB + more than 50 LB
- Application redundancy
- Costs explosion:

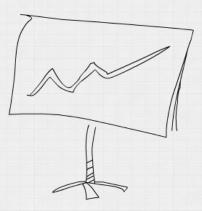
on premise + cloud + people + external providers =

a lot of money!!!

Wave 2: consolidation (start Q3 2014)

CN.blueprint





end of wave 2 (2015): ROI

Wave 3: thinking Serverless (start Q3 2014)

Serverless(CN.Vogue().photovogue)









Some numbers:

- > 300,000 photographers
- more than 800,000 photos
- image size up to 50/60 Mb

The Challenge:

 IT infrastructure wasn't able to manage the website traffic: problems in scaling

costs

Going Serverless:

- Quicker provisioning of resources: from days to hours
- No scaling problems due to traffic boost
- 30% Costs saving

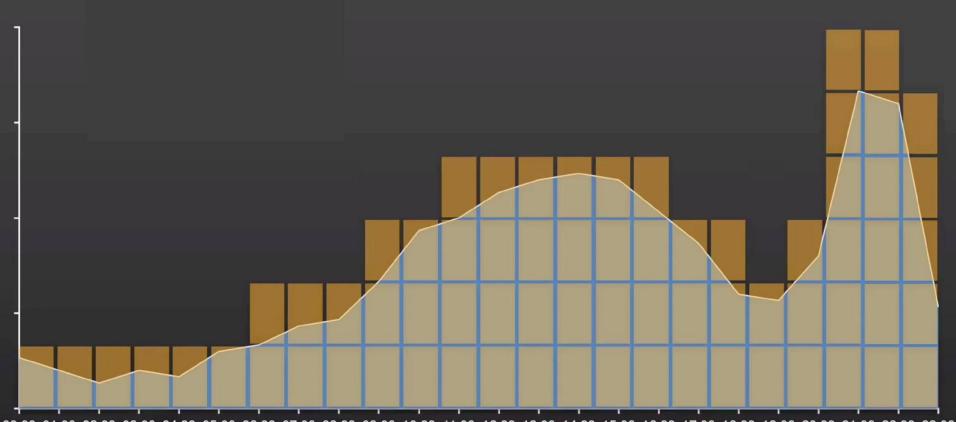
SERVERLESS

WILL LAVER LIGHTYEAR

i

Wave 4: reserve capacity (start in Q2 2016 – running in 2017/2018)

Predictable Workloads



00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

AWS.Reserved_Instances(CN);





•

Pay as yo go

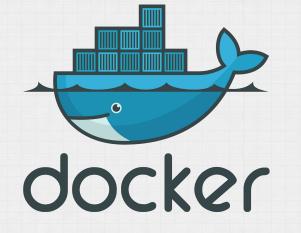
Reserved Capacity

- 1 year / 3 years
- CN.Italy.saving['2016'] = 35%
- CN.Italy.saving['2017'] = 60%
- CN.Italy.saving['2018'] = VMs + DB + DWH

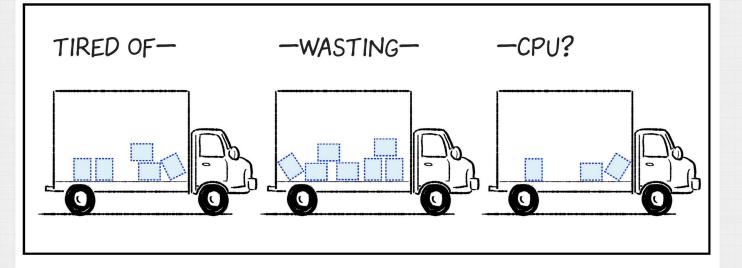


2017 costs = On Premise / 4

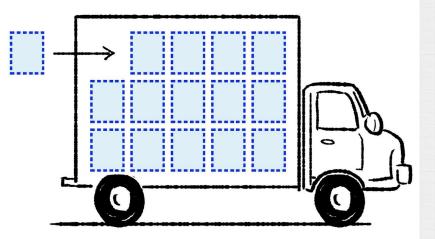
Wave 5: container (start Q4 2017 - runninng)



kubernetes



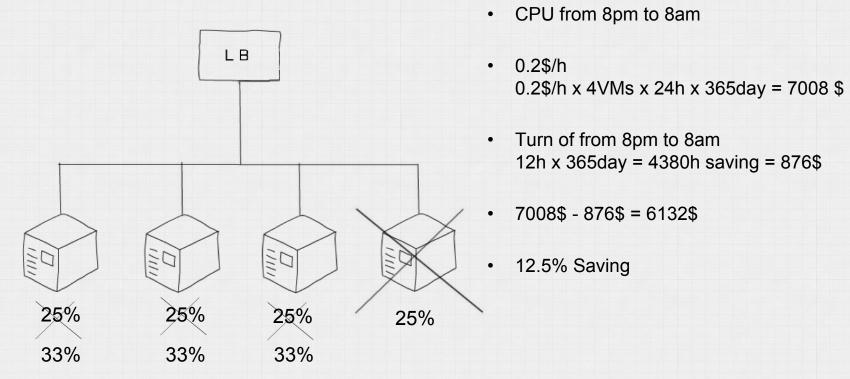
KUBERNETES WILL BE ON THE LOOKOUT FOR MORE EFFICIENT **BIN PACKING** OPPORTUNITIES.



Turn off the lights

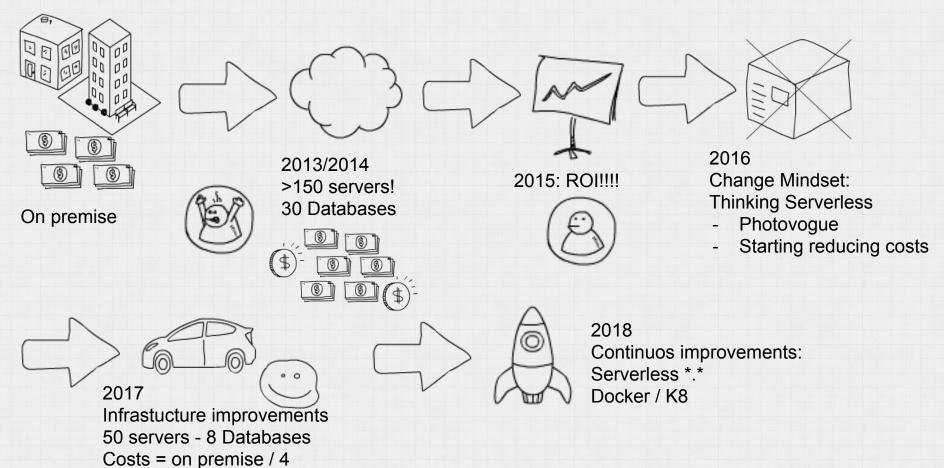


Turn off the lights



summary

From an angry CFO... to a happy CFO :)



Thank You CloudConf

Marco Viganò @Sasha0423