

.nz Registrar Portal

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Quick background

- Standalone web application
- Launched in January 2015
- Replaced section of main web site with registrar transaction data
- Started phase 2 dev in April 2016
- No usage stats



Original objectives

Influencing registrars

- Reduce support costs
 Financial: late payments, invoice resends, etc
 Technical: registration system errors
- Increase .nz sales by helping registrars to
 - ... find new markets / customers / sales
 - ... improve their sales process
 - ... understand their customers better
 - ... retain customers by timely intervention
- Improve quality of TLD by nudging registrars
 - ... improve quality WHOIS data
 - ... manage DNS better
 - ... act quickly on phishing / compromised sites



Things it musn't do

- Create a class of registrars who don't use EPP and our proprietary equivalent
- Allow one part of a registrar to work in an uncoordinated way with another part
- Do things in private that we should do in public
- Provide a new way to attack a domain
- Substantially increase support costs

So no functionality that duplicates EPP!

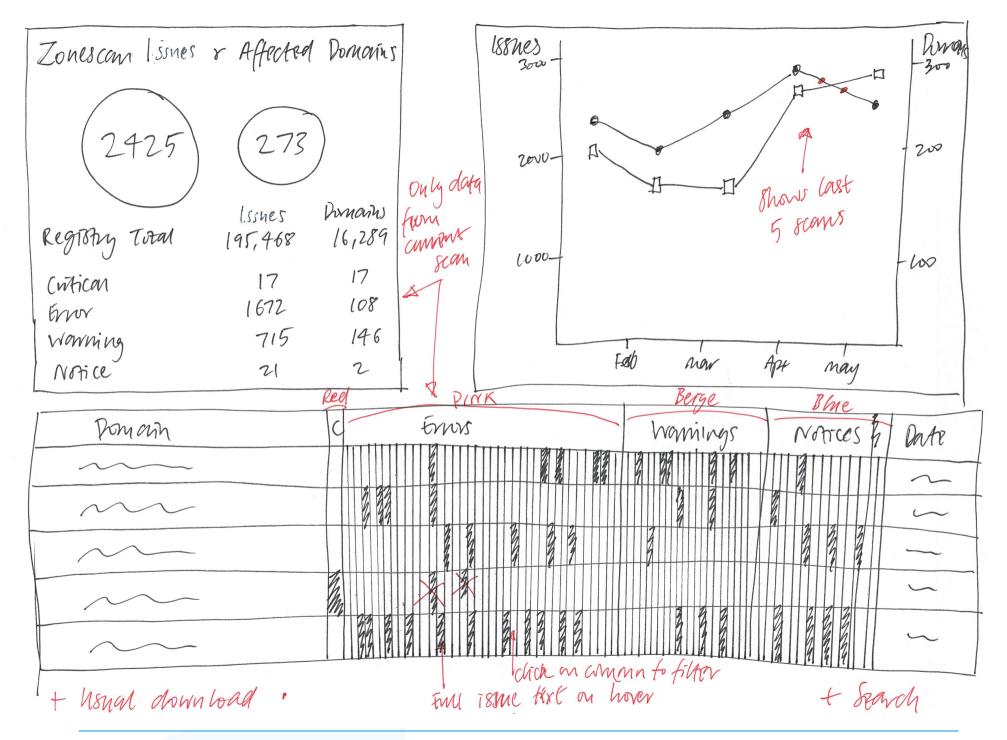


LIVE DEMO

Recap

- Transaction data
 Split into sections each with specific aim
 Gentle gamification
- Opportunities
 Lists they can use to upsell, cross-sell, retain
 No tracking, no pushing, up to them to use
- Quality
 Bad WHOIS data nightly text pattern matching SRS/EPP errors straight from system
 Zone errors from our weekly zone scan
 Compromised / phishing sites external feeds





Technical info

- Ruby on Rails web app
- AmCharts for charting
- Standalone PostgreSQL database
- Threat intelligence feeds:

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Shadowserver compromised sites for .nz (free)
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Openphish Premium (free)

APWG BlockList (through paid membership)



Plans and underlying tech

- Anonymous ranking
 "You are #1 WORST for quality"
- Support role splits within registrars
 Access controlled roles
- Access to more registrant data
 2FA
- Industry categorisation
 Using our machine learning tools



Possible future

- Probabilistic modelling of cancellations Renewal intervention points
- Extend model to domain 'value'
 Historical lifetime value of domain names.
 Projected value of recently acquired domains/registrants (if we can build model)
 Historical lifetime value of registrants
- Refine algorithm for detecting portfolios
 Understand portfolio customers
 Registrants with growing / falling portfolios



Thanks

Any questions?

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