

HEALTH CHECK YOUR DNS DATA WITH TURING ESSENTIALS

turingEssentials is our free DNS analytics dashboard designed for Nominet members. The free service has features taken from our enterprise DNS monitoring tool *turing* and you don't need to be a DNS expert to use it.

IMAGINE LIFE WITHOUT DNS

We wouldn't be able to send emails, surf the web or share important data.

It's the glue that holds the internet together and is fundamental in the growth of new technologies such as the Internet of Things. Therefore it's increasingly important to understand the behaviour in your DNS traffic. DNS data is hard to interrogate and you usually need an experienced DNS expert to do this. With *turingEssentials* you will be able to see your DNS data through an intuitive interface displaying top level patterns and behaviours. Within your DNS data you will be able to:

- Identify abnormal patterns of behaviour in your DNS data:

Use the *turingEssentials* dashboard to ensure your DNS infrastructure is running as it should. Identify abnormal behaviour, interrogate the data packets to see where traffic is coming from and then take action on suspect traffic. For example if 50% of your load is made up of one or two IP addresses, you may want to look into these to understand why: are your domains popular or is something suspicious going on? Dealing with unwanted traffic could free up resources, ensuring your infrastructure is being used efficiently to deliver the best possible service to your customers.

- Gain insight into the behaviour of visitors to your customers' websites by understanding lost traffic:

We will provide you with a list of the most popular NX Qnames. This can provide useful information for your customers. For example if their customers regularly mistype a web address 'www.typo.customerdomain.uk' this will appear in the list. You may want to pass this information onto your customer so they can set up a redirect from the mistyped address, avoiding a poor experience for their customers.

HOW DOES IT WORK?

turingEssentials is cloud-based. Our engineers will work with you to help run the *turingEssentials* script on your DNS server and your DNS data will stream securely to our cloud based environment.

Minimum Hardware Requirements:

- Linux DNS server (Debian 6-8 / Ubuntu 12-16 / RHEL & CentOS 6 -7)
- Intel 2 Cores
- 2 GB RAM
- 20GB Storage

Once installed just log in to *turingEssentials* and your DNS data will be visually presented to you, giving you immediate insights so you don't need DNS expertise to use it.

Your data will be collected and retained for a rolling seven day window, with volumes of data up to 1000 DNS queries per second.

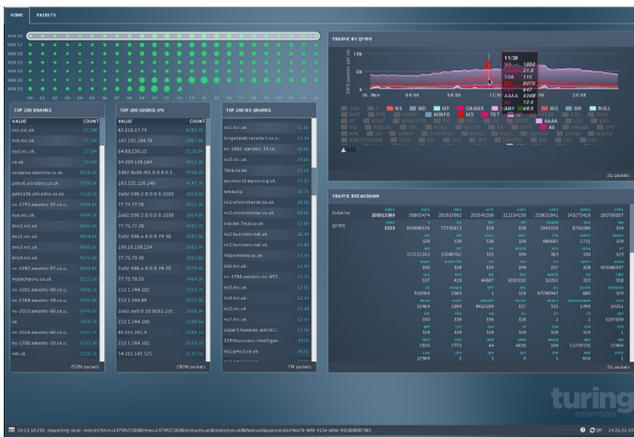


Figure 1 shows a spike in MX (email) traffic. Although the traffic could be legitimate, it is above MX traffic levels for the rest of the day. Further investigation is required.



HOW MUCH DOES IT COST?

turingEssentials is free for Nominet members

As *turingEssentials* is a new service for our members, we welcome your feedback on how useful it is to your business. We are committed to offering the service until at least December 2017 and will be regularly reviewing its operation.

There are hosting costs associated with providing the service, and therefore we want to ensure the service is being fully utilised by users. If you have not used the service for 60 days we reserve the right to deactivate your account.

IS MY DATA SECURE?

All your data will be stored securely on encrypted disks within Europe and will not be made available to third parties.

CONTROLLED ROLLOUT PLAN

As this is a new service, we want to work with you to make sure the installation as easy as possible.

Therefore we will be booking an installation slot with you on a first come, first served basis. You will need to specify a technical contact who will be responsible for the installation within your organisation and can work with our engineers and ensure the service is set up correctly on your servers.

I'M REALLY INTERESTED IN GAINING ADDITIONAL INSIGHT INTO MY DNS DATA, WHAT CAN I DO?

***turingEssentials* will provide you with high-level insight into your DNS data. It doesn't require any DNS expertise or additional hardware to use it.**

If you have large volumes of DNS data then we highly recommend the enterprise version of this service ("*turing*"). *turing* scales to handle large volumes (up to 225k queries per second) and allows you to perform a whole range of analytic functions such as intelligent forensic analysis, identification of malware and misconfigurations.

For a more information or a demonstration please contact us at:

turing@nominet.uk or visit **www.turing.uk**

SOUNDS GREAT, HOW DO I GET IT?

If you're interested in signing up for *turingEssentials* please register your interest via your Online Services account and one of the installation team will be in contact to book your installation slot.

CONTACT US: TURING@NOMINET.UK

