

Position Description – Senior DNS Engineer

Reporting Lines

Reports to: IT Manager

Works Closely with: Systems Team, Network Team, Information Security Officer

Direct Reports: No direct reports

Overview

The Senior DNS Engineer is a member of the IT department which is tasked with maintaining the performance and availability of the IT services of the Bombora Technologies Group and where applicable ensuring that these production services meet or exceed their prescribed SLAs.

Bombora Technologies operates a global Anycast network out of 18 cities. Each of these sites is operated on our own dedicated network and server hardware. The primary product operated on the platform at this point is DiscoveryDNS (www.discoverydns.com), which supports more than 200 Top Level Domains (TLDs), more than any other DNS operator on the Internet.

You will be tasked with the continuous improvement of the network supporting this product. This includes ongoing traffic engineering using BGP and negotiation with our peer and upstream networks. You will be the expert relating to the protocol level details and statistics backing this mission critical product. In addition you will work closely with the Information Security Officer to mitigate the on-going DDoS risk that this infrastructure is subject to. As part of your role you will also be guiding and training the Systems and Network team staff on the various controls that can be used by these teams to counter attack scenarios under your guidance.

As part of our agile operations across the organisation you will be the driver behind architecture improvements as well as working closely with transit providers to achieve the best value-for-money and required capacity for operations of the overall DiscoveryDNS product.

Key Areas of Responsibility

Service Development

Working with the Product team you will be crucial to the development and future position of the product. This work includes market analysis and prototyping the scope of future features and direction of the product.

Service Performance

Your primary responsibility will be based on improvements to the Network latency. Our service is monitored from various external services spanning the globe and we continuously expand our monitoring footprint to achieve the most comprehensive overview of our service as possible. This monitoring will serve as the baseline for any improvements made.

Service Resiliency

Bombora Technologies is certified under ISO27001 and we operate mission critical services that underpin the Internet in Australia for over a decade.

You will work with the ISO to ensure the DiscoveryDNS product is prepared for volumetric network level attacks as well as sophisticated other vectors of attack.

Key Competencies

- Juniper, Cisco & Brocade experience (Certifications preferred)
- Min. 3 years of experience with BGP use and Traffic Engineering
- DNS Protocol Level experience
- Good knowledge in analysing complex datasets
- DDoS Mitigation experience working with Transit providers and Scrubbing services
- Work with Anycast based services preferred
- Understanding of Internet Peering ecosystem globally
- Troubleshooting network issues across externally operated networks critically
- Strong UNIX skills (scripting in Bash, Python, Perl, etc.) hugely desirable
- Experience with capacity planning and methodology