



Zen Internet Role Specification

JOB ROLE: Network Engineer

Key Deliverables

Reporting to the Engineering Manager, you will be primarily responsible for creating, planning and implementing detailed deployment designs. The role requires that you possess the necessary self-discipline to take ownership and responsibility for delivering complex technical implementations on time, with appropriate documentation and managing the operational handover to the Network Operations Centre.

Key Responsibilities

- Create, plan and implement detailed deployment designs
- Write and maintain technical implementation documentation on existing services and networks
- Ensure that new deployments are handed over to Operations with appropriate documentation and training
- Provide 4th level support for network faults (Generally only required in working hours, but in exceptional circumstances support may be required out of hours)
- Contribute to the development of new platforms and products in conjunction with the Strategy & Design teams

Essential Qualifications, Experience and Skills:

- Experience of working in a technical network role within an ISP or large enterprise
- Experience with identifying potential service risks and issues, and providing effective technical solutions to mitigate these risks
- Experience with delivering complex projects on time and with minimum disruption for customers
- Knowledge of some or all of the following routing protocols - BGP, OSPF, ISIS
- Knowledge of L2 protocols, including some or all of 802.1q, LACP, RSTP, MST, PVSTP
- Knowledge of peering, transit and routing policy
- Knowledge of L2/L3 IPVPN networks, including some or all of MBGP, MPLS, LDP, VPLS
- Knowledge of access technologies such as GEA and LLU
- Knowledge of wholesale DSL technologies including PPP, L2TP and LAC/LNS
- Strong analytical skills
- Ability to work on own initiative
- Patient & friendly attitude with excellent interpersonal skills
- Able to demonstrate a natural aptitude for dealing with people
- Must be keen to learn and develop new skills
- Associate or Professional level certification from Juniper or Cisco, or equivalent experience

Desirable Qualifications, Experience and Skills:

- Knowledge of ISP network security principles and best practice
- Knowledge of ISP systems, for example RADIUS, TR-069, DNS
- Knowledge of network design and architecture principles
- Knowledge of Optical Networking (xWDM, SONET/SDH, multiplexers, transponders, etc.)
- Knowledge of Quality of Service technologies and protocols such as Diff Serv and 802.1p
- Knowledge of IPv6
- Knowledge of IP Multicast and associated protocols (IGMP, PIM, MBGP, MSDP)
- Knowledge of network management and network management tools including SNMP, OpenNMS, RANCID, Cacti, Nagios
- Knowledge of VOIP technology and protocols, including SIP
- Knowledge of scripting languages and systems administration
- Knowledge of Internet governance and Internet organizations, including IANA, RIPE, IETF, ICANN and IEEE
- Experience with some of the following vendors - Redback, Juniper, Cisco, Brocade, MRV, A10