

## Niranjan Kunwar

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## Objective

Help customers to build/maintain secure, and stable, servers and network environments; solve network and security problems. I have designed, and built many networks from scratch, and have maintained/monitored 100+ firewalls. I work with all major operating systems, but Linux is my choice because of its proven security and stability. I have built from scratch most servers a typical ISP needs, and have maintained/monitored 50+ Linux servers providing different services. I have had a leading role for more than 9 years in cross-platform system/network architecture, design, implementation, integration, security and administration in local and remote environments. I like challenges, and love doing research. I would be happy to take a role in an organization where I can learn and add value.

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## Skills

- Team player, leader and project manager.
- Hands on experience with Network Security, Business Continuity and Disaster Recovery Planning, Information Security and Risk Management, Security Architecture and Design, and Operations Security.
- In depth understanding of OSI Network model, TCP/IP, ICMP, UDP, DNS, HTTP, SMTP, POP3, IMAP, Proxy, DHCP, SMB...
- Routing protocols.
- TCP/IP security, IPSec, SSL, PKI and VPNs.
- Programming Languages: C, Perl, PHP, Java, XML, Shell.
- Database: SQL.
- Operating Systems: Linux, Unix, Windows and Mac OS X.
- Experienced with Vendors/Softwares/Hardwares: Redhat, CentOS, Fedora, SuSE, SME Server, Sun Solaris, Astaro Linux, Ubuntu, MRTG, Nagios, Mon, Cacti, ntop, syslog, syslog-ng, NIS, NFS, Firewall Analyzer, Ethereal, Wireshark, Snort, Sguil, BASE, Nmap, GFI LANGuard, Nessus, Metasploit, Tripwire, Chkrootkit, Apache, OpenSSL, FrontPage, Vsftp, Awstats, Open SSH, SSH, Bind, Postfix, Sendmail, Qmail, Vpopmail, CourierIMAP, Cyrus, Qmailmrtg Squirrelmail, Horde IMP, Spamassassin, Wordpress, Movable Type, iPass Roam Server, Free Radius, Cistron Radius, Hylafax, GFI Fax, FaxPress, MySQL, PostgreSQL, Interbase, Firebird, PHP, PHPMyAdmin, Webmin, Virtualmin, Samba, Share360, Cybozu, Open Groupware, Zen Cart, Ec-Cube, Squid, OpenVPN, Hamachi, SoftEther, IP Cop, IP Tables, Dynagen, Sonicwall, Watchguard, Cisco, Juniper, Sourcefire, BlueCoat, FortiGate, Aventail, Barracuda, Checkpoint, IBM, Dell, HP, Intel, Netgear, D-Link, Antek, Micom, 3Com, Apple, Microsoft, Qualys, Counterpane, Messagelabs, Postini, McAfee, Symantec, Sophos, Clam AV, Network Solutions, Thawte, Websense, Surfcontrol, Solarwinds, Jboss, Weblogic,...

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## Work Experience

### Reliance Globalcom, London, UK

*Security Engineer* (Nov 2008 to Present)

Industry: Telecommunication

- Deploy, manage, monitor and support security devices and services (firewalls, IDS, IPS, Proxy Servers, vulnerability scanning services, etc...) from major vendors like; Cisco, Juniper, Blue Coat, Qualys, Counterpane, and many more... Design and setup secure networks with VPN connection (IPSec, PPTP, SSL).
- Perform customer security change requests accurately and in a timely manner.
- Resolve third line customer Security faults and identify any problems that caused them and ensure that the problems do not repeat themselves.
- Ensure Reliance customer security configurations are inline with the standards and also will technically work and will not compromise the security of the customer networks.
- Ensure all Reliance internal security devices are configured as requested (and security is maintained), proactively identify any security problems or process failings that may jeopardise Reliance security.
- Bespoke projects as defined and directed by the Security Team.
- Meet all SLA's either internal or external on change requests.
- Maintain a personal in-depth knowledge of the Reliance Internal infrastructure and where possible customer networks.
- Develop routine maintenance procedures and subsequently implement such procedures for routine execution.
- Carry out detailed post-mortem investigations into major system outages, document the findings and make appropriate technical recommendations.
- Interface with 3<sup>rd</sup> parties/vendors to ensure sufficient support and coverage during integration and testing phases.

**ShipServ, London, UK**

*System Manager* (Dec 2007 to Nov 2008)

Industry: e-commerce (Technology, Service)

- Manage the trading system infrastructure, which forms the core of ShipServ's business: server and network hardware, operating systems & core software services (webservers, DNS servers, mailservers, firewalls, monitoring etc.). The global e-commerce trading platform runs on Linux/Unix, Java and Oracle.
- Work with employees across multiple departments to define and implement global IT solutions for internal company processes and operations.
- Planning and implementation of system upgrades and rollout of new software releases.
- Some projects that I've completed at ShipServ:
  - Migration from Unix (Solaris) to Linux (SuSE Linux Enterprise Server 10 and CentOS 5.x) - This project involved installation, configuration and administration of the OS and core applications for e-commerce platform (Apache, Bind, Sendmail, Postfix, MailScanner, Weblogic, Jboss, Oracle)
  - Firewall and VPN - Designed and implemented a secure and resilient network with Cisco ASA firewalls. Connected Live, DR and branch offices using site-to-site ipsec VPN. Implemented IPsec and SSL vpn for mobile users.
  - System and Services monitoring - Built systems/services monitoring with Nagios and Cacti, and migrated the existing MON and ad-hoc scripts monitoring to Nagios.

**Covestor LLC , London, UK**

*System Administrator* (Aug 2007 to Nov 2007)

Industry: Finance (Technology, Investment)

- Responsible for the development, management and maintenance of Covestor's development, test and production systems infrastructure.
- Design, configuration and maintenance of all systems infrastructure.
- Ensure the continued availability and stability of Covestor's live website and development and test environments.
- Optimization and tuning of web servers, databases and operating systems.
- System monitoring and problem detection.
- Managing system security (including firewalls, IDS, recovery plans, backups).
- Software upgrade/update management.
- Manage existing architecture and planning and implementing its evolution to increase redundancy to maximize uptime and support traffic growth (e.g. load balancing and fault tolerance).
- Managing the technical relationship with Covestor's hosting provider.
- Managing Covestor's office and data center network.

**Internet Solutions Limited, Hong Kong**

*Senior Network and Security Engineer* (Nov 1999 to Aug 2007)

Industry: IT (Internet Service Provider)

- Lead and coordinate technical team to make sure network, hardware and operating systems are running smoothly. Wholly responsible to oversee technical support operations in 24x7 environment.
- Deploy, manage, monitor and support servers and LAN/WAN infrastructure – firewalls (major vendors like: Cisco PIX, Watchguard, Netscreen, Sonicwall and many more...), switches, routers and IDS. Design and setup VLANs and VPNs (IPsec, PPTP, SSL).
- Multi Platform (Unix/Linux/Windows/Mac) Network/Security planning, designing, implementation and administration.
- Setup and maintain Secure Web, Mail, Proxy, DNS, FTP, Radius, Roaming, VoIP and FAX Servers. Large scale Qmail installation for email hosting service. Large scale LAMP (Linux, Apache, MySQL, PHP/Perl/Python) server installation for web hosting service.
- Monitor, analyze and audit network traffic and bandwidth, with IDS/IPS and network monitoring tools like Snort, BASE, Sguil, MRTG, Nagios and Firewall analyzer.
- Take part in security policy creation, risk analysis, penetration testing and security incident response. Also provide security awareness training to fellow colleagues and customers.
- Provide security advise to software development team. Scripting for the daily system administration job.
- Create and maintain security strategy, intrusion detection systems, business continuity and disaster recovery plans. Perform scheduled maintenance on network equipments and servers. Perform data backups and recoveries.
- Maintain network documentation, hardware and software inventories of server and network equipment. Establish and maintain maintenance service level agreements (contracts), as appropriate.
- Find and evaluate new products, and solutions. Research and troubleshoot all kinds of problems related to

Network and Security. Seek ways to offer better quality and security, and ways to cut costs. Research, test, and implement Open Source softwares suitable for enterprises.

### **Himalayan Computers, Nepal**

*Support Engineer* (Aug 1998 to July 1999)

Industry: IT (Internet Service Provider)

- Assemble PCs hardwares, peripherals. Install Operating systems (windows3.x/9x/NT) and other softwares like MS Office.
- Phone and onsite support to customers for resolving the technical issues with PCs, network and Internet connection
- Selling IT products

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## **Education**

- **The Hong Kong Polytechnic University, Hong Kong, 2005**
  - MSc Information Technology (While working full time at Internet Solutions Ltd.)
- **Institute of qualification Improvement TELECOM, St. Petersburg, Russia, 1998**
  - Post Graduate Diploma majoring in Informatics & Computer Engineering (While studying full time at the St. Petersburg State University of Telecommunications)
- **St. Petersburg State University of Telecommunications, St. Petersburg, Russia, 1998**
  - Engineer Radio Communications, Radio Broadcasting And Television (Equivalent to MSc, 5 years full time course)
  - Teaching Russian as a Foreign Language
- **Mendeleev University of Chemical Technology, Russia 1993**
  - Secondary School, Certificate Level
- **Mt. Annapurna School, Nepal, 1990**
  - S.L.C. (School Leaving Certificate)

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## **Certifications**

- **CISSP** (Certified Information System Security Professional), #110366
- **CCNA** (Cisco Certified Network Associate), CSC010257152
- **SFCP** (Sourcefire Certified Professional) #4156170
- **ACP** (Aventail Certified Professional)

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## **Languages**

- English, Russian, Hindi and Nepalese (fluent written and spoken)

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## **Additional Information**

- Nepalese Citizen.
- UK settlement visa holder (allowed to work in UK).
- Notice: one month