

Joseph G. McGean

Personal Information

- Marital status: Single
- Nationality: USA/ Ireland

Professional experience

April 2001 to Present (contract) www.ireland.com, The Irish Times

Network & Security Administrator

<http://www.ireland.com>

With 27 million page impressions a month Ireland.com is the fourth busiest Web site in the UK & Ireland. My role mostly focused on www.ireland.com, but was functional across the entire Irish Times Group. I drew up E-mail and Web usage policies and outlined overall security architecture to meet BS7799 compliance. Architect resilient network paths to business critical facilities. Designed a leased line test bed to measure typical network traffic patterns of specific applications. Wrote an RFP for Dublin wide WAN and also an RFP for VPN (Nokia CheckPoint FW-1 appliances). Outlined a secure process for vendor file upload as part of a new service offering. Using Snort on Solaris 2.7 to do IDS. Establishing a secure means to access LDAP servers. Looking at Java code running on BEA WebLogic App server for possible security holes.

January to April 2001 (contract) Irish Aviation Authority Dublin, Ireland

<http://www.iaa.ie>

Security Consultant

The Irish Aviation Authority is the Irish Government body which manages Irish air space, control towers and flight management systems. I wrote an RFP (Request for Proposal) for a dual CheckPoint FW-1 pair connected with StoneBeat on Solaris, along with a dual ISP connection. I was also part of the RFP response evaluation committee. This was a good experience as I have answered RFPs in the past, but this time I got to distil a customers needs and requirements into an RFP and then participate in the review of the responses. Also suggested auditing tools (SysLog for Unix, BindView for Novell) based on customer auditing requirements. Troubleshoot DNS mail issues and found security issues with managed Cisco's in seven locations.

From July 2000 to December 2000 NDA Contract

Firewall (CheckPoint FW-1) Engineer / Product & Service Integration

Six month contract with client who required a very strict NDA (Non-Disclosure Agreement). Can only speak very generally about technologies used (CheckPoint FW-1).

April to June 2000 (3 month contract) Digifone Ltd. Dublin, Ireland

<http://www.digifone.com/>

Internetworking and Security Systems Engineer

Digifone is a very innovative GSM provider located in Ireland. Digifone is "the world's first GSM operator to offer on-line shopping to customers using their dot digifone on-line (WAP) service." I am looking at the security aspects of some advanced and as yet un-offered WAP services. Also I am designing the network infrastructure and advising on the creation of an ISP that will run on top of the GSM network. The ISP will be a straight dial-up 'free' ISP, as well, that will link to the WAP portal. It is a very dynamic project with the chance to work with some of the industry's top professionals from IBM, Netscape (I-Planet) and Sun on some leading edge mobile E-commerce solutions. My background in mission critical Internet solutions and Internet security is being applied to these innovative solutions.

July 99 to Feb 2000

Cognotec Ltd.

Dublin, Ireland

<http://www.cognotec.com/home.html>

Security Officer/ Global IP Network Architect

As Security Officer I have worked with the Security groups at the following banks to explain and integrate Cognotec's AutoDeal Lite product with the banks network: Credit Suisse First Boston, First Union, Wells Fargo, Bank One, Swedbank, Soc Gen, West LB, Sanwa (Japan), Royal Bank of Canada.

Also in this capacity I have designed the model of how Cognotec should connect to banks and worked with UUNet system engineers to create standard Cisco router configurations to ease rollout to banks.

Oversaw the installation, configuration and migration of four CheckPoint firewalls from NT to Solaris 2.6 within our datacenter utilizing two StoneBeat High Availability instances.

Oversaw overall Internet security policy, including designing slides and high level architecture documents that are provided to all Cognotec customers.

Administered CheckPoint 4.0 NT firewalls in Dublin and London.

As Global IP Network Architect I am responsible for designing and implementing full BGP4 peering with three ISPs: Digitalisland, UUNet and BT. This is to provide reliable Internet uptime of our financial transaction Web servers.

1/97 to 4/99

PSINet Inc. <http://www.psi.net>

Troy, NY USA

multiple positions (see below)

Security Planning and Response Team (7/98 to 4/99)

<http://www.psinet.com/security/index.html>

- Configured and administered TIS Gauntlet firewalls for PSINet's Secure

Enterprise customers (Gauntlet ver. 3.2 to 4.2 on BSDI ver 3.0 to 3.1). Also responsible for setting up and maintaining Intranets and dynamic packet filters for PSINet's Managed Service customers. Additional services provided to Managed Service customers included router and CSU/DSU configuration via remote administration and consulting on the creation of an overall Internet security policy based upon organisational needs and resources.

NetWatch Strategic Support Group (4/97 to 7/98)

- NetWatch was created to provide PSINet's top 50 strategic customers with a focused level of technical assistance of the type enumerated under 'Corporate Installations' below, yet targeted towards high profile customers such as: The White House, TWA, Merrill Lynch & Co., Inc. Goldman Sachs, The Department of Defense, WebTV, Mindspring, Earthlink, PBS, United Airlines, Council on Foreign Relations, RiteAid.

Corporate Installations (1/97 to 4/97)

- Supervised and orchestrated the integration of customer LANs with the Internet. Assisted corporate ISDN and leased line (128K-T1,T3,SMDS) customers both through e-mail and over the phone. Specific tasks included troubleshooting mail packages, router and CSU/DSU configurations, LAN/WAN security, connectivity issues, subnetting internal networks and maintaining/troubleshooting DNS zone records for PSINet customer domains. The role required knowledge of TCP/IP, familiarity with multiple software and hardware platforms, and solid network troubleshooting skills.

Education

May 1992 University at Albany - SUNY (State University
of New York) Albany, NY USA

Bachelor of Arts (B.A) Political Science (Honours Program)

- GPA 3.92 (on a 4.0 scale A+ average)

1993 – 1995 University at Albany - SUNY (State University of
New York) Albany, NY USA

Master of Public Administration (MPA) – Information Science (discontinued)

Summary of other experience

6/88 to 1/91 IBM (contracted through Burns International
Security Services) Montvale, NJ USA

Security Specialist

- Provided physical security functions while utilizing PROFS mail system

9/86 to 6/88 Rockland Community College
Suffren, NY USA

Computer Laboratory Technician

- Installed software and hardware upgrades and provided Hepldesk support to student users

Technical Skills

- Understand all aspects of TCP/IP routing including: RIP ver. 1 and ver. 2, OSPF, BGP4, IRGP,EIRGP and static routing
- Can troubleshoot all LAN/WAN issues involving: leased lines (128K - T1, T3,SMDS), ISDN, Dial-up, SMDS, Frame Relay, Ethernet and Token Ring

- Have dealt with issues pertaining to the following Internet protocols: FTP, POP3, IMAP, SSH, HTTP, SNMP, DHCP, DNS and SMTP
- Total grasp of both DNS resolution and delegation
- Understand that Internet e-mail (SMTP) is the major Internet application for most companies, as such I can troubleshoot SMTP issues very well
- Familiar with the following routers: Ascend, Compatible Systems, Netopia, Xedia, Livingston, MorningStar, Rockwell, NT RAS (Steelhead now RRAS), Proteon and Cisco
- PSINet used Cisco routers on its backbone so have much experience with the Cisco IOS
- I am familiar with Astrocom, Kentrox, AdTran and Paradyne external CSU/DSU's and the internal CSU/DSU's inside Cisco (2524), Ascend P130 and Compatible Systems MicroRouter 1250I and 1270I
- Know Unix variants: Solaris 2.6, BSDI 3.x, Linux, Free BSD 2.6
- Can configure TCP/IP on: All Unix variants, Novell 3.11 – 4.x, MS WIN 3.11, WIN95/98 and NT 3.51 – 4.0 (server and workstation)
- Understand NetBEUI and Microsoft networking very well: LMhosts, WINS, NetBIOS name resolution, PDC/BDC, PPTP, DUN, RRAS, NT domain issues, WIN95/98 peer-to-peer, MS Exchange, MS Proxy and IIS