

Overview

Independent IT Professional specialising in UNIX, virtualisation, storage and IT security

- Aim to enjoy a challenging career as an Independent Information Technology Professional (contractor), specialising in UNIX systems, virtualisation, and information security. Degree educated; CISSP, RHCE, SCNA, SCSA, VCP3, and VCP4 certified.
- Eligible to work in Australia: Oliver Gibbs holds a valid Australian Class VE, subclass 175 (Skilled Independent) visa.

Experience

UNIX Technical Design Architect, *Aero Engine Controls Ltd.*

February 2010 – July 2010 (contract)

www.aeroenginecontrols.com

Birmingham, UK

Responsibilities

- Aero Engine Controls is a joint venture between Rolls-Royce plc and Goodrich Corporation, specialising in aerospace engine control systems. Worked within the Technology Refresh and Transformation Programme.
- Planned and conducted an inventory audit to capture the current state of all existing systems, services, and applications within the UNIX estate in the interests of future transformation recommendations and business continuity.

Achievements

- Summarised the current state of the UNIX estate to provide a service topology describing the interface and coupling between UNIX-based systems. Provided recommendations towards migrating select UNIX services to be virtualised to maximise ROI.
- Technically reviewed, and applied due-diligence towards the VMware vSphere 4.0 virtualisation and EMC² SAN storage and archive projects. Reviewed project documentation, designs, and provided recommendations. Designed test plans to confirm configuration state and implementation completeness at appropriate project control gates throughout the progress.
- Provisioned ten Dell PowerEdge R710 hosts across two sites running VMware ESXi 4.0, VMware vCenter Server, VMware Consolidated Backup (VCB), and Site Recovery Manager (SRM). Provisioned EMC² Celerra NS-480 unified primary storage, EMC² Rainfinity File Management Appliances (FMAs) archiver, EMC² Centera data archiving, and EMC² Data Domain DD660 VTLs for data de-duplication of backup and archive data.

UNIX Systems Engineer, *Royal Bank of Scotland (RBS) Group*

March 2009 – October 2009 (contract)

www.rbsgroup.com

Cambridge, UK

Responsibilities

- Worked on the RBS WorldPay Payment Card Industry Data Security Standard (PCI DSS) project, ensuring internal infrastructure systems and networks met PCI DSS v1.2 compliance under a demanding project timeline.
- Responsible for capturing business requirements, designing and establishing configuration standards for UNIX infrastructure, UNIX security policy, patch management cycles, and configuration management.
- Model required processes and document established configuration standards ensuring PCI DSS v1.2 compliance.

Achievements

- Developed a hardened / secure standard operating environment (SOE) for Red Hat Enterprise Linux to meet PCI DSS compliance for both physical and VMware ESX hosted virtual machines. Automated the PXE build process for complete unattended installations to improve operational efficiency, minimising the introduction of configuration management anomalies.
- Analysed the business and PCI DSS requirements, designed, documented, scripted and tested the security policy for Red Hat Enterprise Linux hosts. Designed, tested, provisioned and deployed Red Hat Network Satellite Server 5.2 solution. An automated and repeatable process was established using Kickstart and Satellite answer files.
- Created custom, signed RPM packages for standardised configurations and performed quality assurance testing their functionality. This included compiling all drivers for HP ProLiant DL-series servers, packaging software such as EnCase Enterprise SAFE forensics servlet, TripWire Enterprise intrusion detection and the Centennial Discovery auditing agent.

UNIX Systems Configuration Engineer, *Barclays Capital*

August 2008 – October 2008 (contract)

www.barclayscapital.com

City of London, UK

Responsibilities

- Responsible for an upgrade project, upgrading Quest Management Extensions (QMX) agent on all UNIX platforms from v1.5 to v2.0. The new QMX agent was deployed to all Red Hat Enterprise Linux, Solaris and VMware ESX platforms using Microsoft System Center Configuration Manager 2007.
- Automated the installation and back out process for QMX agent deployment using RPM and PKG package formats.

Achievements

- Automated the installation, reconfiguration and troubleshooting scripts for QMX written in Bash UNIX script and Perl script. Used Perl to implement and utilise the Service Locator Protocol (SLP) provided by Microsoft System Centre Configuration Manager 2007 to obtain site-specific configuration data dynamically.
- Documented the deployment & configuration processes, assisting BAU support and agent troubleshooting.
- Developed, packaged and deployed custom applications using Red Hat Package Manager (RPM) and Solaris PKG formats.

Senior UNIX Systems Engineer, *Members Equity Bank*

February 2008 – June 2008 (contract)

www.membersequity.com.au

Melbourne, Australia

Responsibilities

- Worked for ITMS on-site at the Members Equity Bank head office supporting the IT infrastructure.
- Responsible for the maintenance, support and patching of the UNIX environment, consisting of Sun Solaris 2.6, 8, 9 and 10.

Achievements

- Supported VMware ESX 3, logical domains on Sun Enterprise M5000s and physical domains on Sun Enterprise E10k.
- Reviewed the architecture and operation of a new disk-based backup solution using NetBackup 6.5, NetApp FAS and NearStore storage & SnapVault for NetBackup. Devised new procedures & automated repetitive tasks Shell and Perl scripts.

UNIX/Linux Technical Specialist, nabCapital (division of the National Australia Bank)

July 2007 – January 2008 (contract)

www.nabcapital.com

Melbourne, Australia

Responsibilities

- Responsible for a global migration project, streamlining and centralising authentication by integrating Microsoft Active Directory authentication on all Red Hat Enterprise Linux (AS3 through AS4), Solaris (8 through 10) and VMware ESX (2 & 3) hosts using Quest Vintela Authentication Services v3. Deploy to Development, Testing, UAT, Production and DR, including core banking.

Achievements

- Analysed, designed & implemented Group Policy Objects (GPOs) in Active Directory defining host access control and SUDO.
- Defined, documented and tested engineering processes, allowing for automated tasks and consistent migrations.
- Provided change supervision: raising, approving and administering change controls via Quest Remedy. Presented changes at CAB. Authoring Implementation Plans, Implementation Verification Plans (IVPs) and Test Summary Reports (TSRs) for change controls.

Customer Operations Engineer, NTT Europe Online

May 2006 – July 2007

www.ntteuropeonline.com

City of London, UK

Responsibilities

- Responsible for the building, configuring, and deploying of customer enterprise solutions hosted within the EU. Provided Tier-3 support for deployed solutions; involved customer liaising, change control, incident resolution & 24x7 'on-call' support.

Achievements

- Deployed and supported enterprise solutions using Microsoft Windows Server 2003 clusters, Red Hat Enterprise Linux 3, 4 & 5, Sun Solaris 9 & 10, VMware ESX 3, Apache & Microsoft IIS, Nortel Alteon load balancers & SSL accelerators, NetApp FAS filers & NetCache web caches, Cisco PIX, CheckPoint FireWall-1, FortiNet, Juniper NetScreen & Nokia IPSO firewalls.
- Responsible for Veritas NetBackup and tape library robots in UK and French data centres. Upgraded the UK from NetBackup v4.5 to v5.1MP5 on Sun Netra T1s, then to v6.0MP4 on 8-way Sun T2000 media servers & 10Gbps Ethernet infrastructure. Planned, installed and migrated the UK from SCSI-based Spectralogic Spectra 64k (AIT3) to Fibre Channel based Spectra T950 (LTO3) tape libraries employing Cisco MDS 9124 FC fabric switches and IBM DS 4200-series storage for disk-staging.

Senior Systems Administrator, Sungard Trading and Risk Systems

December 2001 – February 2003

www.sungard.com

City of London, UK

Responsibilities

- Role included 1st through 3rd line support of Microsoft Windows 2000, RedHat Enterprise Linux, Sun Solaris and Cisco Catalyst 5500 switches and 3500 routers, and maintaining the in-house centralised NIS authentication domain, worldwide.

Achievements

- Developed Perl scripts automating the annual IT security audit process for both Windows and UNIX authentication domains. Provided 'per-office' audits, short-listing policy violations, increasing the reliability while reducing the time and costs involved.
- Lead the European ERP (Enterprise Recovery Planning) project for European infrastructure and emergency procedures.
- Completed a WAN migration from ISDN to frame relay PVCs with redundant ISDN BRI backup for all European offices.

Travelling

August 2001 – December 2001

Infrastructure Manager, Sungard Trading and Risk Systems

September 2000 – July 2001

www.sungard.com

City of London, UK

Responsibilities

- Managed the London MIS support team and data network infrastructures across European satellite offices.
- Responsible for 1st through 3rd line support of Windows NT4/2000, Red Hat Enterprise Linux and Sun Solaris (2.6, 7.0 and 8.0 mix), NetApp FAS filers, Veritas NetBackup, CheckPoint FW-1 firewalls, CheckPoint VPN-1 gateways, RSA ACE/Server.

Achievements

- Successfully coordinated project involvement of London MIS team with European, American and Asian teams.
- Specified and implemented solutions for acquired companies, integrating them into Sungard's 'standard' covering infrastructure, information security policies, server hardware, and telecoms equipment.

Systems Programmer, Cranfield University

June 1999 – September 2000

www.cranfield.ac.uk

Cranfield, UK

Responsibilities

- Responsible for 3rd line support of Windows NT 4.0 Server and UNIX servers supplying essential services campus-wide.

Achievements

- Regulated the installation, configuration, and security policies of Samba servers on Sun Solaris and Linux (Red Hat & SuSE).
- Developed interfaces integrating the legacy student print accounting system with the campus Oracle database using Perl.
- Designed, tested and recommended a campus migration to the Windows 2000 platform. Found SYN floods to 445/tcp forced Active Directory to send clear text SMB transactions instead of cipher text: the security vulnerability was reported to Microsoft.



Oliver Gibbs

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Senior IT Assistant, *Mazars Neville Russell*

December 1998 – June 1999 (contract)

www.mazars.com

Bedford, UK

- Responsible for the Chilterns region, managed two junior staff and supported IT infrastructure for over 100 users including Windows NT4 Workstation clients, Novell NetWare 3.2 servers, Lotus Notes R5 and ARCserve data backups.

Assistant Scientific Officer, *Defence Evaluation and Research Agency (DERA)*

June 1998 – September 1998 (contract)

www.dera.gov.uk

Bedford, UK

- Internship; responsible for a software engineering project developing an embedded system solution for live equipment testing.

Technical Skills

Operating Environments

- BSD (FreeBSD, OpenBSD), Linux (Debian, Red Hat Enterprise Linux v3, v4 and v5, Ubuntu), Microsoft Windows NT/2000/2003 Servers, NetApp DataOnTap, Sun Solaris (2.6 through 10) and OpenSolaris, VMware ESX 3.5 and vSphere 4.

Systems and Storage Technologies

- Provisioning / maintenance of HP ProLiant, Dell PowerEdge, IBM xSeries, & Sun Enterprise, SunFire and Netra servers.
- Common infrastructure TCP/IP services (Apache, DNS, DHCP, IIS, Kerberos, LDAP, NIS/NIS+, SSH, Samba, Squid, WINS).
- Microsoft Cluster Service and VERITAS Cluster Service, MS Active Directory & Quest Vintela Authentication Service for UNIX.
- VERITAS NetBackup 4.5, 5.1, 6.0 and 6.5 (including Bare Metal Restore, NDMP, SnapVault & maintenance patch installation).
- Configuration and maintenance of Linux & Sun Volume Managers (LVM/SVM), VERITAS Volume Manager (VxVM), and ZFS.
- Configuration of NetApp FAS filers (solo or clustered heads, using CIFS, NFS, FC, iSCSI) and NetApp NetCache appliances.
- Installation, configuration and maintenance of Cisco MDS 9000-series Fibre Channel fabric switches, Spectralogic Spectra T950 & T120 (LTO3), 64k, 12k & 2k (AIT3) tape libraries.

Standards and Compliance

- ITIL, ISO 27001, PCI DSS v1.2.

Notation, Programming and Scripting Languages

- ITU SDL-2000, UML, Java (J2SE), Perl, Python, UNIX Shell (Bourne, BASH), Kickstart, DOS Batch, SQL.

Education

B.Sc. (Honours) Information Technology and Computing (2.1, Upper Second-class Honours)

2003 – 2006

The Open University

Milton Keynes, UK

- Subjects included: Object-oriented software development, software systems and their development, concurrency and distributed systems, digital communications, encryption, mathematics.
- Final-year project title: '*Nomad: an extendable and portable, image transcoding HTTP proxy system for narrowband and wideband connections*'. The project was graded with Distinction.

Diploma in Computing

2003 – 2004

The Open University

Milton Keynes, UK

- Subjects included: Object-oriented software development, software engineering and distributed systems.

Continued Professional Development

Certifications Awarded

- January 2010 – (ISC)² Certified Information Systems Security Professional (CISSP), #349767
- January 2010 – VMware Certified Professional (VCP4) in VMware vSphere 4.0, #41695
- July 2009 – VMware Certified Professional (VCP3) in VMware Infrastructure 3 (VI3), #41695
- May 2009 – Sun Certified Network Administrator (SCNA) for Solaris 10, Sun ID: SUN415864
- June 2008 – Sun Certified Systems Administrator (SCSA) for Solaris 10, Sun ID: SUN415864
- April 2007 – Red Hat Certified Engineer (RHCE) in Red Hat Enterprise Linux 5, #805007744625783

Training Courses Attended

- A full continued professional development listing is available online at: www.gibbsie.org/cv

Current Professional Development Goals

- ITIL v3 Foundation certification, aim to sit the examination by end of Q3, 2010.
- TOGAF v9 certification, aim to sit the examination by end of Q4, 2010.

Professional Membership

British Computer Society (BCS)

- Professional Member (MBCS)
- Member of Advanced Programming Specialist Group.

Institute of Elec. & Elec. Engineers (IEEE)

- Professional Member (MIEEE)
- Member of Communications Society and Computer Society.

Interests

- Computing (systems, programming, and security), electronics, mechanisms and how 'things' operate, photography, physical sciences (especially astronomy and astrophotography), travelling, swimming, badminton and mountain biking.

References

- References are available on request.



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