

Overview

IT Architect specialising in Cloud, Enterprise, InfoSec, Integration, and Virtualisation

- I have accrued 16 years of IT delivery; 5 years in IT Architecture. Broad domain knowledge, covering application, business, infrastructure, integration, security, SDLC, and systems.
- I aim to enjoy a challenging career in IT Architect, specialising in cloud, enterprise, integration, virtualisation, and security domains. Degree educated; CISSP, ITIL v3, RHCE, SCNA, SCSA, SCS, VCP3, VCP4 and VCP5 certified.
- Eligible to work in Australia: Oliver Gibbs holds a valid Australian Class VE, subclass 175 (Skilled Independent, PR) visa.

Experience

Infrastructure Solutions Architect, *IBM Global Technology Services*

December 2010 – September 2014 (contract)

www.ibm.com

Melbourne, Australia

Responsibilities

- Planned, designed, led, and governed strategies and solutions conforming to IBM and National Australia Bank (NAB) account standards and business vision, to deliver IBM's 'Infrastructure On Demand' (IOD), an IaaS private cloud strategy.
- Worked with Project Management and Programme Management to plan and document viability, identify risk and mitigation strategies, and provide work estimates. Directly worked with the customer to define and clarify their scope and requirements.
- Lead end-to-end design of high quality solutions for projects, often with conflicting and demanding delivery constraints. Developed robust and extensible solution building blocks, patterns, and standard components aligned to technology roadmaps and frameworks, used to deliver business application and infrastructure services in a repeatable, consistent fashion.
- Maintained cost and schedule control, realising the value gained from developing and maintaining architectural standards.
- Identify and document any exceptions to the enterprise architecture standards where required.
- Managed stakeholders within business and technology disciplines, including vendors.
- Participated in architectural governance forums, technical work groups, migration strategies, and process improvement.
- Research and possess broad knowledge of operating environments, hardware, software, middleware, application, and networking, and their application to realise business vision. Constant refreshing of knowledge to remain current.
- Mentored team members, covering both general and specific knowledge applicable to the role and function.

Achievements

- Key founding member of the IBM Solution Design team for the National Australia Bank account, establishing Design competency within the account. Developed and maintained the team's diagram standards and the high-level and detailed-level design document templates to uphold consistency. Later, these diagram standards were adopted as account standards.
- Developed, established, and maintained the governance framework used by the team.
- Delivered key Midrange and Windows solutions for Credit Card Fraud Protection, Internet Banking, and Murex Trading.
- Planned pilot solutions for IBM's new IOD IaaS private cloud strategy. Identified gaps in design processes and documents, and resolved these gaps to gain stakeholder confidence and refine delivery timeframes prior to go-live.
- Lead and established the IOD private cloud Single Sign-On (SSO) strategy for midrange projects using Quest Authentication Services, Active Directory and GSSAPI-Kerberos to meet requirements within exceptionally demanding timelines. Solution defined authentication, authorisation, centralised privilege management, and centralised security compliance enforcement. Mentored implementation teams to learn the QAS technology.
- Requested by account management to work on the Solaris hosting and virtualisation infrastructure programme of works for IBM's new IOD private cloud strategy, which was in a critical situation, failing to deliver a solution within the first two years of the project. Performed governance of all project artefacts, identifying delivery gaps and requirement failures within the project. Consulted with resources and vendors to identify resolutions. Revised work estimates and work schedules for project management. Planned and lead the design and implementation of the solution for OVMSS on Oracle Enterprise SPARC T5 hardware, and its provisioning, orchestration, and monitoring solution using Oracle EMOC (Ops Center) on Oracle Enterprise SPARC T4 hardware. The solution and capability was delivered and implemented within 9 months.
- Developed IaaS patterns for RHEL6 on System z & System x, and both Solaris 10 and Solaris 11 on OVMSS for IOD.
- Assisted process development for transformation and data centre migration projects and the adoption of IOD private cloud.
- Consulted and advised on developing a security framework for the NFSv4 file sharing standard across the midrange fleet within NAB Group using QAS for authentication and authorisation and NetApp's ActiveDirectory integration.

Senior UNIX/Linux Designer / Technical Lead, *National Australia Bank*

July 2010 – December 2010 (contract)

www.nab.com.au

Melbourne, Australia

Responsibilities

- Engaged project stakeholders, using high-level designs (HLDs) from the architecture team to create a detailed-level design (DLD) to meet project requirements. Peer reviewed colleague DLDs, and related documentation for governance.
- Ensured UNIX/Linux infrastructure aligned with technology and architecture roadmaps defined by the bank. Consulted any alignment failures, advising solutions to resolve issues. Provisioned and configured systems to match the specification described by detailed-level designs. Managed warm-hands data centre resources during provisioning phase.

Achievements

- Analysed, identified, and recommended performance remediation solutions to the Murex 3.1 infrastructure running on Sun Enterprise M5000's, impacting session proxy, middleware, and database layers. Upgraded the Solaris 10 x86 SOE to Solaris 10 Update 9 to support new HP BL685c G7 hardware used for the Murex 3.1 trading platform.
- Audited the VMware ESX/ESXi infrastructure for security and regulatory baseline purposes. Remediated the security audit points raised against a new Red Hat Enterprise Linux 5 SOE during sign-off. Implemented as a modular add-on to the existing SOE addressing security audit points, and written to permit safe retrofitting of existing SOEs.
- Designed and implemented a hardware refresh for Calypso, TIBCO, and DataSynapse Grid Server (brokers and engines). Automated the provisioning of DataSynapse Grid Servers for rapid, consistent deployment.

UNIX Technical Design Architect, Aero Engine Controls Ltd.

February 2010 – June 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, lead and conducted an audit capturing current state of all existing UNIX systems, services, and applications.

Achievements

- Summarised the current state of the UNIX estate to provide a service topology describing the interface and coupling between UNIX-based systems. Provided migration solutions for UNIX-based services to be virtualised, maximising ROI.
- Technically reviewed the VMware vSphere 4.0 virtualisation and EMC² SAN storage/archive projects. Reviewed project documentation and designs, provided solutions resolving inconsistencies found. Developed implementation governance plans to confirm configuration and implementation state for project control gates. Solution spanned multiple geographical sites using VMware vSphere 4.0 (ESXi) and vCenter Server, VMware Consolidated Backup (VCB), and Site Recovery Manager (SRM).

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 business and PCI DSS requirements, designed, documented, scripted and tested the security policy for RHEL hosts.
- Designed, tested, provisioned and deployed Red Hat Network Satellite Server 5.2 solution. Established an automated and repeatable provisioning process 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) agents 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.
- 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.
- Addressed integration challenges, devised new procedures, and automated repetitive tasks using UNIX Shell and Perl scripts.
- Assisted with annual IT security audits conducted by Deloitte and worked to address any system security audit points raised.



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UNIX/Linux Technical Specialist / Lead, *National Australia Bank*

July 2007 – January 2008 (contract)

www.nabcapital.com

Melbourne, Australia

Responsibilities

- Undertook a global migration project, streamlining and centralising authentication by integrating Microsoft Active Directory authentication on all Red Hat Enterprise Linux (AS3 through 4), Solaris (8 through 10) and VMware ESX (2 & 3) hosts using Quest Vintela Authentication Services v3. Deployed to Development, Testing, UAT, Production & DR, including core banking.
- Consult with application teams, business owners, and infrastructure managers to ensure smooth change implementation.

Achievements

- Identified the specific user-base for each host, analysed uniqueness of user and group identifiers (UIDs/GIDs), migrating ownership of data for identified UID and GID where required, and assigned roles matching job specification and requirements.
- Designed, documented, implemented and tested security policies using Group Policy Objects (GPOs) within Active Directory to define UNIX host access control and UNIX privilege management (via 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. Authored Implementation Plans, Implementation Verification Plans (IVPs) and Test Summary Reports (TSRs).

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 consultation, 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.



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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 Perl interfaces integrating the legacy student print accounting system with the campus Oracle database.
- 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.

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 across three geographic locations for over 100 users. Infrastructure included 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.
- Developed interface and control software in Assembler (x86 and 68000) and C for bespoke embedded system hardware.

Technical Skills Summary

Operating Environments

- Midrange: Linux (Debian, Red Hat Enterprise Linux v3 through v7, Ubuntu), Oracle/Sun Solaris (2.6 through 11).
- Windows: Microsoft Windows NT / 2000 / 2003 / 2008 Servers.
- Virtualisation: OVMSS, Solaris Zones, VMware ESX 3.5, VMware vSphere 4 and 5.

Infrastructure Technologies

- Authentication: Kerberos, LDAP, Microsoft (Active Directory), Quest (Quest Authentication Services/QAS, Vintela/VAS)
- Clustering: Oracle (ClusterWare, RAC), VERITAS (Cluster Service)
- Common Infrastructure TCP/IP Services: Apache, DNS, DHCP, IIS, Kerberos, LDAP, NIS/NIS+, SSH, Samba, Squid, WINS
- Firewalls: Checkpoint FW-1, Fortinet, Nokia IPSO (IP3xx, IP4xx, IP7xx), Juniper Netscreen, Host-based firewalls (Linux/Solaris)
- Hardware: Dell (PowerEdge), HP (ProLiant), IBM (System x, System p, System z), Oracle (Enterprise, M-series, T-series)
- Middleware: IBM WebSphere, IBM MQ, TIBCO
- Networking: Ethernet, filtering (Layers 2, 3, 7), MPLS, NDMP, TCP/IP (v4, v6), VPN
- Recovery: VERITAS (NetBackup 4.5, 5.1, 6.0, 6.5, Bare Metal Restore, NDMP, SnapVault, MP installation)
- Storage: NetApp FAS Filers (solo/clustered heads), NetApp NetCache appliances
- Volume Management: Linux (LVM), Oracle (SVM, ZFS), Veritas (VxVM)

Standards and Compliance

- TOGAF and ADM, ITIL v3, ISO 27001, ITU SDL-2000, PCI DSS v1.2, UML.

Programming and Scripting Languages

- C, Objective C, Java (J2SE, J2EE), Perl, Python, Swift, UNIX Shell (Bourne, BASH), SQL.



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Continued Professional Development

Certifications Awarded

- January 2012 – VMware Certified Professional (VCP5) in VMware vSphere 5.0, #41695
- September 2011 – Symantec Certified Specialist (SCS) in High Availability Administrator for UNIX using VERITAS Cluster Server 5.0
- July 2011 – ISEB ITIL v3 Foundation Certificate in IT Service Management
- 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

Current Professional Development Goals

- TOGAF v9 certification, aiming to sit the examination by end of Q1, 2015.
- Gain certification in Amazon Web Services (AWS) and Microsoft Azure by end of Q2, 2015

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.

Professional Membership

British Computer Society (BCS)

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

Australian Computer Society (ACS)

- Associate

Interests

- Technical Decompression Diving (closed-circuit rebreather diver), passion for deep exploration, wreck diving and cave diving.
- 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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