

## Work Experience

2005 - Present

### Part-Time Private Consulting

#### *Private Contractor/Consultant*

- Several Clients mostly supplying Network, PC (Windows), and Windows Server/Linux Server support.
- Specialist Unix/Linux support consulting
- IT security advise

May 2006 - Present

### Australian Nuclear Science and Technology Organisation (ANSTO)

#### *Senior Systems Specialist/Platforms Team Leader*

- A technical specialist in Server systems both UNIX and Windows (mainly UNIX) and Storage Systems, including NetApp and Veritas Foundation Suite. Plus many scientific computing applications.
- UNIX Systems Administration, Solaris 10/11 (plus previous versions), Linux (Redhat, Ubuntu), plus past experious on many flavours of Unix (BSD, Irix,AIX).
- Windows Administration up to server 2016, AD, Exchange, Office 365.
- Storage Administration, NetApp (ONTAP 7.x, Clustered Ontap 8/9), Veritas Foundation Suite 4.x/5.x, Brocade SAN, Legato Networker.
- Completed several projects installing the infrastructure for ANSTO's SAP systems. Consisting of Solaris 10 and 11 making use of Solaris Zones (Virtual hosts).
- Migrated Solaris systems from SAN to NFS.
- Migrated many servers/services to VMs (VMWare), many using Puppet automation.
- General consolidation of storage systems to NetApp hardware.
- Planning and soon implementing DR for IT services
- Lead and mentor a team of 8 other system/database administrators
- 1st/2nd/3<sup>rd</sup> level support under an ITIL system

May 2005 – May 2006

### ac3 (Advanced Centre for Computing and Communications)

#### *Systems Specialist*

- A systems specialist in UNIX, mainly Solaris and Linux types of Unix. Supported customer machines to various levels depending on defined SLAs, also included Microsoft operating systems NT, 2000 and 2003. Through a service desk using ITIL practices.
- Designated technical contact for several larger customers. All technical inquiries or problems were fed through me to solve or coordinate other ac3 resources to satisfy the customer needs. The larger customers that are my responsibility primarily have Sun Solaris systems running Oracle.
- Administered 2 Legato Networker 7.x systems.
- Played a lead role in moving customer systems from their computer room in a building they were vacating to ac3 provided facilities in Ultimo. Knowledge of computer room facilities was expanded greatly through my experiences at ac3.
- Responsibilities also involved working as part of a team to support a wide customer base, including a Dell high performance cluster machine. As a person with UNIX skills I acted as backup for the primary system administrator on these systems. ac3 has two facilities at Eveleigh and Ultimo and from time to time I am needed to escort customers and ensure systems run smoothly, and backups are carried out.

Feb 1990 – May 2005

### Australian Nuclear Science and Technology Organisation (ANSTO)

#### Senior System Administrator/Manager Server Infrastructure Group

- The role of Server Infrastructure Group Manager. Supervising four Systems Administrators, guiding technical direction
- Performing System Administration and being responsible for the site IT server infrastructure, including UNIX mainly Solaris , IRIX and Linux, NT 4/2000/2003 Servers, SAP/Oracle and Storage Systems. Performing and supervising the administration of all other systems the responsibility of the ANSTO's Corporate Services. Actually performing System Administration of these systems myself.
- Administering Exchange 5.5 email systems.
- Administering DNS, DHCP, sendmail, NFS and a number other other infrastructure services
- Assisting in the configuration of ANSTO's primarily Cisco network.
- Mentoring system administrator staff in all technical matters.
- Working on the Service Desk.
- Early years at ANSTO was network manager/systems administrator and desktop support.

Dec 1989 – Feb 1990

### Australian Construction Services

#### Computer Systems Officer

- Provide technical support for the authorities SNA network, and local networks. Support the PC environment, mainframe, Xenix, and C Programming.

### Summary of IT Experience

- Current Solaris 8/9/10/11 experience worked with versions since SunOS 4.1 (Solaris 1)
- Linux (Redhat, SuSE, Ubuntu)
- Wide UNIX experience including, SGI Irix, AIX, Xenix, Pyramid OSx, BSDi, BSD, Apple OSX
- Windows NT4/2000/2003/2008/2016
- Maintained mixed environment (Windows/Linux)
- Sendmail, Exchange Server 5.5, some Exchange 2003/2010/2016
- Familiar with network protocols DNS, DHCP, NFS, SAMBA, sendmail, IMAP, FTP, Telnet, SSH, HTTP(S)
- Software firewalls iptables, ipfilters.
- Storage administrator experience in NetApp Filers (ONTAP 7.x, Clustered ONTAP 8 and 9), ZFS, DDN Storage, Veritas Foundation Suite, Sun DiskSuite, a number of RAID hardware devices.
- Experience of running Oracle on Solaris and Linux and basic database administrator skills.
- Apache web server.
- Network security, Server hardening, Firewalls, VPN
- Cisco Networking

### Tertiary and Professional Studies

- Bachelor of Mathematics (Computing Science) - 1989
    - Wollongong University
  - Master of Computing Science – 1996
    - Wollongong University
  - Certified NetApp Clustered Ontap Administrator
  - Cisco Academy 2010
  - Microsoft Certified Systems Engineer (MCSE) - 2000
  - Certified Novell Administrator – 1996
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- ITPA, Information Technology Professionals Association

*Training*

- Current Proficient Bronze Medallion patrolling Surf Life Saving Association member
- Senior First Aid – Current 2018
- NetApp Certified Cluster-mode Administrator - 2013
- ITIL v3 Update – 2009
- Computer Systems Validation Principles - 2007
- Microsoft Project 2003 - 2007
- Foundation Certificate in ITIL – 2004
- Veritas Storage Foundation for Unix Suite – 2006
- ISO 9000 Quality Management System - 2004
- Legato Networker Bootcamp – 2003
- SAP training - 2001

## Outline of Experience

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### **Solaris**

*Experience gained  
working for ANSTO and  
ac3.*

#### **Hardware support and troubleshooting**

- Familiar with Sun/Oracle hardware troubleshooting and fault finding.
- Installing components/parts, upgrading and replacing

#### **System Administration**

- Installing and Configuring Servers Solaris 2.6/7/8/9/10/11
- Windows 2003/2008/2012/2016
- Hardening servers.
- User and File administration, partitioning/filesystems, NFS, and security
- Shell scripting, Perl, Python, PHP etc

#### **Software/Application support and troubleshooting**

- Main application SAP which uses Oracle
- Several Oracle application servers and database servers

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### **Linux**

*Experience gained  
working for ANSTO and  
ac3.*

#### **Hardware support and troubleshooting**

- Familiar with PC/Server hardware
- Installing components/parts, upgrading and replacing

#### **System Administration**

- Installing and Configuring Servers/Workstations Redhat, SuSE and Ubuntu
- Hardening servers and configuring software firewalls.
- User and File administration, partitioning/filesystems, NFS, SAMBA and security
- Shell scripting, Perl, Python etc

#### **Software/Application support and troubleshooting**

- Supporting scientific computing on a farm of Linux boxes, with PBS scheduling system. Mainly Fortran CPU intensive applications.
- Supporting SGI Linux cluster system
- Basic Oracle support.

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## Windows

NT/2000/2003/2008/2012/2016 Server

*Experience gained through working for ANSTO and Server Infrastructure Group*

### Support

- Supported NT since version 3.51, attained an MCSE in NT 4, and as time passed supported 2000/2003/2008/2012/2016.
- Familiar with the insides of Intel server hardware.

### Applications

- Exchange 5.5/2003/2010/2016
- Exposure to a number of smaller applications running on this platform to numerous to mention.

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## Virtual Systems

*Experience gained through working for ANSTO and Server Infrastructure Group*

### VMWare

- Used VMWare Workstation since version 4, currently using 6.
- Helped maintain ESX server, Vmotion etc
- Familiar with VMWare server.
- Involved in project to migrate servers to Virtual system, consolidating a number of old servers.

### Solais Zones

- Setup numerous systems using Solaris 10/11 zones

Outcomes have been the consolidation of a number of older hardware platforms onto newer Sun and Intel based servers.

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## Storage

*Experience gained on job, and industrial training*

### NetApp (Network Appliance Filers)

- Setup/Installed/Configured several NetApp systems.
- Used ONTAP 6.x, 7.x, Clustered ONTAP 8.x and 9.x
- Configured NetApp into SAN environment, then later to pure NFS

### Veritas Volume Manager/Veritas Foundation Suite

- Past systems used this heavily
- Setup Veritas File system on SAP systems
- Using mirroring features to replicate data to 2<sup>nd</sup> computer room

### General Hardware and Software RAID

- Configured software RAID on Linux and Solaris.
- Configured a number of RAID hardware devices from Sun 3510, Adaptec RAID card setups.
- Familiar with SCSI/ATA/SATA/SAS/SSD disk technologies.
- Significant ZFS filesystem experience. (Solaris and Linux)

### Backup

- Large amount of experience with EMC (Legato) Networker
- Past experience with public domain AMANDA backup system
- Familiarity to tapes and tape technologies DLT, LTO and tape robot hardware.

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## Networking

### Network Development

- Good understanding of TCP/IP networks
- Completed Cisco Academy training
- Solid understanding of switching and routing principles
- Configuring networks on any server.
- Configuring networks in a mixed UNIX/Linux and Windows environment.

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## Documentation

### Quality Documentation

- Validation Documentation for systems used in the production of pharmaceutical products
- Development of quality documentation for the new ANSTO business

management system (ISO9001)

- Experience writing technical documentation for installation, management and problem solving of established infrastructure

**Technical Documentation**

- Development of “end-user” documentation for use within a corporate environment
- Development of technical documentation for use by technical support staff
- Development of Infrastructure Proposals