

Henrik Morsing

Unix System Administrator

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Personal Profile:

I am a Unix System Administrator with 25+ years of experience. I have extensive knowledge of AIX and Linux systems as well IBM hardware, IBM's technologies and virtualisation. I perform well under pressure on my own, in small teams or in large enterprise ITIL environments. I learn new procedures and technologies quickly, but can also develop new processes. I always work hard on root cause analysis to prevent recurring problems to achieve a stable and efficient environment for my clients. I have worked as a DevOps in several companies as well, having supported development teams and deployed software. I plan capacity and perform tuning on systems to minimise TCO.

Summary of Technical Skills:

Operating Systems: AIX, Linux (RedHat/Ubuntu/Debian/Amazon Linux)

Hardware: IBM pSeries, HP ProLiant, SUN Solaris (T2, T5), IBM HMC, EMC and 3par Storage

Applications: IBM P-Series technology (DLPAR, NIM, HMC, VIO), AWS, TSM (ESS), IWS/TWS, ITSC, WebMethods, WebSphere, Samba, Apache, Sendmail, Postfix In-house written automation / monitoring / testing tools and scripts

Tools: Ansible / AWX, Zabbix monitoring, Munin, Grafana, lpar2rrd performance monitoring, smokeping network monitoring

Backup: Spectrum Protect (TSM) backup and ESS Spectrum Scale GPFS cluster

Clustering: Oracle RAC, Power HA, Veritas Cluster

Database: MySQL

Virtualisation: POWER LPAR, LPM Live Partition Mobility, AWS

Comms & Networking: TCP/IP, EtherChannel, DNS, NFS, VIOs, NPIV, VLANs, Virtual network & Fibre channel switches

Languages: Python, PHP, Korn / Bash Shell scripting and others

Key Skills and Strengths:

- Strong experience and highly certified in all areas of IBM System P and AIX
- Strong Linux experience
- TSM Spectrum Protect backup experience
- Installing, upgrading and supporting large system estates that run 24/7 critical applications
- Writing and reviewing Disaster Recovery plans, implementing DR tests and implementing DR

- Troubleshooting problems or incidents to identify and fix issues at root cause
- Analysing, developing, implementing and reviewing changes within the IT change process
- Creating and improving documentation in line with company standards
- Writing new and improving existing in-house scripts and applications
- Learning new technologies to help improve levels of service efficiency (e.g. AWS certification)
- Ensuring that BAU Incident resolution is within the defined Service Level KPI targets and all services are running smoothly
- Effective use of monitoring to prevent impact to business
- Performance tuning and capacity planning to minimise TCO

Employment History:

05.2022 – Current **Howdens, Northampton**

Job Title: **Unix Systems Administrator**

Tasked with supporting BAU, on-call, building AIX and Linux systems, patching, fixing and improving systems and processes such as Ansible deployments and Zabbix monitoring.

Have been responsible for capacity planning and tuning on POWER systems and have added custom graphs to Grafana to aid in this. Have written custom Grafana scripts and command line script to analyse and monitor system performance and automate monthly capacity reports.

BAU Team:

- BAU incidents
- On-call
- Updating and writing Ansible playbooks
- Writing Zabbix monitors
- Installing and patching AIX and Linux systems
- Building gold build images
- Performance tuning and capacity planning
- Scripting to ease day-to-day tasks

12.2021 – 03.2022 **Viskefi, Milton Keynes**

Job Title: **Linux Systems Administrator**

Joined Viskefi as a start-up company entering completely empty offices, tasked with installing networking, SAN, servers and all infrastructure.

Infrastructure Team:

- Planning and designing all infrastructure from scratch

06.2012 – 11.2021 **SSE Plc - Scottish and Southern Energy, Havant**

01.2012 – 04.2012

Job Title: **Senior Unix System Administrator**

I successfully oversaw many aspects of SSE's Midrange Team, while I filled various positions within the BAU, Project and Maintenance Teams.

I am currently working on two projects, the ESS Spectrum Scale project to replace TSM tape libraries with a high-performance GPFS disk cluster and a project to replace four POWER7 frames with four new POWER9 frames. The latter involves frames, HMCs and VIOs setup from scratch, the LPM 900 LPARs across.

BAU Team:

- Taking a lead role in a small team providing BAU support and on-call to over 1500 Unix servers
- Completing configuration of 350 project servers to productionise them
- Analysing and resolving incident and problem tickets including root cause analysis for long term fixes and improvements
- Managing and troubleshooting Veritas and RAC Clusterware clusters
- Managing TSM Spectrum Protect backups, nodes and servers
- Using TWS/IWS to monitor and trouble shoot job schedules
- Writing script amendments and fixes for monitoring
- Writing Python GUI to visualise and manage alerts in monitoring systems
- Supporting MySQL database and PHP scripts for monitoring systems
- Providing continued assistance to the ESS storage project

Project Team:

- Setting up four new POWER9 frames and HMCs, building VIOS 3.1 from scratch and LPM migrating 900 LPARs across from old POWER7 frames
- Firmware updating POWER servers and adapters
- Decommissioning old systems and hardware
- Setting up new NIM and MKSYSB servers
- Security patching of 1000 LPARs across the estate
- Taking a lead role of an IBM ESS migration project to replace TSM tape libraries with ESS high performance GPFS disk system
- Adapting and testing use of REAR (RedHat Backup Recovery) on IBM POWER
- Configuring IBM ESS software and RedHat on POWER

- Building first SSE RedHat Linux on POWER LPAR for testing
- Setting up virtual tape pools on existing TSM servers and migrating clients
- Troubleshooting and supporting ESS storage systems
- Writing monitoring scripts for ESS storage nodes
- Working with Veritas clusters decommissioning disks and resources
- Security patching 1500 servers across the estate

Maintenance Team:

- Maintaining OS and firmware levels on 1500 AIX LPARs across 18 pSeries frames
- Maintaining OS and firmware levels on 100 Linux servers on HP ProLiant hardware or VMware
- Planning and arranging upgrades and out-of-hours failovers with application teams and business users to ensure all servers were on supported levels
- Configuring LPM Live Partition Mobility for hardware migration project
- Maintaining and updating Python monitoring GUI after release

06.2012 – 06.2013 **SGN – Scotia Gas Network – AIX Project Team**

Job Title: **AIX Specialist**

- WebMethods migration project, version 6.5 to 8.2
- Installing, patching and configuring WebMethods 8.2
- Installing and configuring Terracotta cluster for WebMethods and working with networking team to set-up load balancer
- Support for WebMethods developers and testers, troubleshooting and configuring WebMethods
- Building LPARs to SSEs specifications on POWER7 hardware using dual VIOs, NPIV, logical VLANs and virtual switches
- Using NIM to build AIX 6.1 LPARs following strict SSE build procedures
- Setting up mksysb and TSM backups of LPARs controlled by TWS
- Working with DBAs to deliver LPARs to support Oracle databases
- Configuring fail-over systems for DR recovery
- Assisting BORIS migration project by building LPARs and configuring for Oracle use

Other positions in order:

- 10.2011 -10.2011 **IBM** - Hursley - Job title: **AIX Specialist**
- 02.2011 - 06.2011 **Lloyds TSB** - London - Job title: **AIX Consultant**
- 03.2010 - 12.2010 **GlaxoSmithKline** - Stevenage - Job title: **AIX System Administrator**
- 03.2009 - 12.2009 **Virgin Media** - Basingstoke - Job title: **Unix System Administrator**

- 09.2008 - 11.2008 **McKesson** - Warwick - Job title: **AIX System Engineer**
- 12.2007 - 05.2008 **Pipex Homecall** - Manchester - Job title: **AIX Consultant**
- 05.2007 - 10.2007 **Visa Europe** - Basingstoke - Job title: **Unix System Administrator**
- 04.2006 - 04.2007 **Attenda - Staines** - Job title: **Unix Support Specialist**
- 10.2003 - 03.2006 **Camelot Interactive** - Watford - Job title: **Unix DevOps**
- 11.2002 - 10.2003 **Safeway Plc.** - Hayes - Job title: **Unix System Administrator**
- 08.2001 - 06.2002 **PBS Data A/S** - Copenhagen - Job title: **Unix System Administrator**
- 02.1999 - 07.2001 **International Data Post** - Copenhagen - Job title: **Unix DevOps**

Certification:

- 1999 Certified - AIX 4.3 System Administration
- 2003 Certified - p690 LPAR Technical Support
- 2006 Certified Specialist – eServer p5 and pSeries Administration and Support for AIX 5L V5.3
- 2007 Certified Specialist – eServer p5 and pSeries Enterprise technical Support AIX 5L V5.3
- 2007 Certified Specialist – eServer p5 Virtualization Technical Support AIX 5L V5.3 IBM
- 2007 Certified System Expert – eServer p5 & pSeries Enterprise Technical Support AIX 5L V5.3
- 2007 Certified System Expert – eServer p5 Virtualization Technical Support AIX 5L V5.3
- 2007 Certified System Expert – eServer p5 HACMP for AIX 5L
- 2007 IBM Certified Advanced Technical Expert – IBM System p5
- 2019 AWS Cloud Practitioner
- 2019 AWS Solution Architect

Technical Training:

- 1999 IBM AU16, Advanced AIX System Management and Problem Determination
- 2000 Azlan, Cisco ICND (Interconnecting Cisco Network Devices)
- 2000 eHuset, Solaris System Administration I
- 2001 IBM AU91, SP System Administration I
- 2002 IBM CF21U,DB2 UDB Administration Workshop for Unix
- 2002 IBM AU54GB, HACMP System Administration I: Planning and Implementing
- 2003 IBM WF38GB, WebSphere Application Server V4 (Advanced Edition)- Administration
- 2003 IBM AU70GB, pSeries Logical Partitioning (LPAR) for AIX
- 2004 InTechnology, TSM implementation and configuration
- 2005 IBM AU54GB, HACMP system Administration I: Planning and Implementation