Henrik Morsing

Unix System Administrator

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Personal Profile:

I am a Unix/Linux systems administrator with a broad experience from working in enterprise environments both as an employee and contractor. I am proactive and happy to learn and have taken on DevOps tools and methodologies such as Kubernetes and Ansible/AWX. I have experience with many monitoring solutions, like Zabbix for availability and Grafana for performance, and can script monitors for these systems using Python or shell scripting.

I am very analytical and will always attempt to find the root cause of any issue encountered. I will always implement a long-term solution whether it is housekeeping, monitoring or an actual fix. I am also keen on improving security everywhere possible and and analyse performancee of systems as well.

Summary of Technical Skills:

Operating Systems: AIX, Linux (RedHat/Ubuntu/Debian/Amazon Linux), FreeBSD and others.

Hardware: x86, IBM pSeries and more.

Applications: I have extensive experience with everything that surrounds an enterprise environment. Scheduling, backup, storage, databases.

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

Backup: Spectrum Protect (TSM) backup. Dell Avamar.

Clustering: Oracle RAC, Power HA, Veritas Cluster.

Database: MySQL

Virtualisation: POWER LPAR, LPM Live Partition Mobility, VMWare.

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 Linux experience
- Strong experience and highly certified in all areas of AIX and IBM Systems
- 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.

I am supporting a large SAP landscape with SAP HANA databases and K8 POS software backed by Oracle databases.

BAU Team:

- BAU incidents, Linux and AIX support
- On-call for all Linux and Unix systems and infrastructure software
- Updating and writing Ansible playbooks and supporting AWX
- Writing Zabbix and Grafana monitors for stability and performance monitoring
- 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 – 04.2022   **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 WMware
- 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

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