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Linux / Unix System Administrator | Enterprise Infrastructure Engineer

PROFILE

Mid-to-senior Linux / Unix System Administrator with hands-on experience operating enterprise production environments across RHEL, SUSE, Oracle Linux and AIX. Strong background in OS lifecycle management, patching, upgrades, HA clustering, virtualisation, automation and deep troubleshooting across large server estates. Comfortable owning production operations end-to-end, from provisioning and baseline enforcement to incident resolution, controlled maintenance windows and platform reliability.

TARGET LEVEL / ROLES

- Mid-to-Senior Linux & Unix System Administrator
- Enterprise Linux Infrastructure / Operations Engineer

TECHNICAL DEPTH

Linux / Unix operations Administration of enterprise Linux/Unix systems across RHEL, SUSE, Oracle Linux and AIX, with additional hands-on experience on Debian, Ubuntu and Arch-based distributions. Work includes major version upgrades, patching, package repositories, LVM, filesystems, systemd/service management, boot issues, OS baselines and controlled maintenance windows.	Troubleshooting & RCA Deep troubleshooting of Linux/Unix issues involving segmentation faults, core dumps, failed services, journal/syslog analysis, dependency conflicts, package failures, filesystem pressure, permissions, performance symptoms, boot problems and low-level OS behaviour.
Monitoring, observability & ITSM Operational monitoring using Checkmk, Nagios, Zabbix and Grafana with experience creating custom monitoring scripts and plugins for Linux services, system health, operational checks and infrastructure-specific requirements. Work includes alert investigation, threshold validation, service state analysis, incident follow-up and ITSM-based ticket handling within production support workflows.	HA / clustering Operation and support of clustered and high-availability Linux services using Pacemaker, Corosync and CRM/pcs, including SAP HANA, SAP application services and SFTP platforms. Experience includes resource behaviour, failover handling, quorum/fencing awareness, cluster health checks, service recovery procedures and controlled production changes.
Virtualisation & infrastructure platforms Administration of virtualised infrastructure across KVM, Oracle Linux Virtualization Manager, VMware and Proxmox, including VM lifecycle, resource allocation, OS deployment, storage/network integration and infrastructure troubleshooting.	Automation & scripting Ansible, Ansible Runner, Python and shell scripting for repeatable infrastructure administration, including playbook development, reusable roles/tasks, inventory-based execution, health checks, reporting, pre/post-patching validation, user/system tasks, configuration consistency and reduction of manual operational work.
Kubernetes platforms Administration and implementation of Kubernetes, OKD, Rancher and K3s clusters, including node lifecycle, RBAC, CNI/CSI configuration, PV/PVC management, ingress exposure, namespace/project structure, workload deployment, observability, certificate/configuration handling and baseline cluster operations. Work includes troubleshooting workloads, cluster services, storage/network integration and operational issues affecting platform availability.	Stand-alone containerization & Git Workflows Deployment and administration of stand-alone containerised services using Docker, Podman, Docker Compose, Dockerfiles, Portainer and Traefik, including container networking, volumes, image builds, reverse proxy routing, service exposure, service lifecycle and troubleshooting. Use of Git repositories for Ansible code, Kubernetes manifests, Traefik configurations, configuration tracking, change review and operational version control.
Service layers Operation and troubleshooting of Linux service layers including Apache HTTPD, Nginx and HAProxy, with experience around reverse proxying, service exposure, configuration validation, TLS/certificate handling, load-balancing concepts and service availability.	Lifecycle & service layers Provisioning, patching, upgrades, repository control, baseline enforcement and lifecycle workflows using Red Hat Satellite, Foreman and SUSE Manager, with focus on repeatability, controlled change and production compliance.

ENTERPRISE OPERATIONS HIGHLIGHTS

- Operated and patched hundreds of Linux/Unix servers across multiple enterprise clients, environments and infrastructure models.
- Maintained clustered / high-availability environments for resilient production services, including service recovery and failover-oriented operations.
- Automated recurring administration tasks using Ansible, Python and shell scripting to reduce manual work, enforce standards and limit configuration drift.
- Managed OS lifecycle workflows through Red Hat Satellite, Foreman and SUSE Manager, including provisioning, repositories, patch coordination and baseline maintenance.
- Built and administered Kubernetes, OKD, Rancher and K3s clusters alongside traditional enterprise Linux/Unix systems.
- Resolved production incidents following ITSM best-practices, involving service failures, patching issues, dependency conflicts, filesystem pressure, performance symptoms and OS-level behaviour.

PROFESSIONAL EXPERIENCE

Unix & Linux System Administrator | Axians

May 2025 - Present · Lisbon, Portugal

Direct Axians role after previously supporting the same enterprise environment as an external consultant through ADENTIS.

- Administer enterprise Linux and Unix estates across RHEL, SUSE, Oracle Linux and AIX production environments.
- Own production operations covering provisioning, patching, major version upgrades, compliance tasks, resilience, troubleshooting and controlled maintenance windows.
- Build, configure and maintain clustered / high-availability systems for critical services, including Pacemaker/Corosync/CRM operational work.

- Manage virtualised infrastructure using KVM, Oracle Linux Virtualization Manager (OLVM), VMware and Proxmox.
- Administer Kubernetes, OKD, Rancher and K3s clusters, including RBAC integrations with OIDC providers (e.g Azure EntraID), CNI/CSI configuration, PV/PVC handling, node operations and platform baseline work.
- Use Ansible, Python and shell scripting to automate administration tasks, reduce manual execution and support repeatable infrastructure standards.

IT Consultant / External Linux System Administrator | ADENTIS - assigned to Axians

Jan 2022 - May 2025 · Portugal

External consulting role assigned to Axians before direct hire in May 2025.

- Delivered Linux/Unix administration across client infrastructures, supporting hundreds of production servers across mixed enterprise estates.
- Handled large-scale patching, OS maintenance, lifecycle tasks, package/repository work, LVM/filesystem administration and infrastructure troubleshooting.
- Worked with Red Hat Satellite and Foreman for provisioning, repository management, patch coordination, baseline enforcement and lifecycle control.
- Investigated low-level system issues affecting availability, performance, services, patching, package dependencies, filesystem pressure and OS stability.
- Supported HA / clustered infrastructure operations, including resource checks, failover behaviour, service recovery and production reliability work.

IT Specialist | Capgemini Engineering

Feb 2022 - May 2022 · Lisbon, Portugal

- Supported a short-term domain migration project, including migration execution and post-migration troubleshooting.
- Resolved user, system and service issues related to the migration process.

IT Specialist | Pensamento Binário

Jul 2021 - Oct 2021 · Sintra, Lisbon, Portugal

- Developed internal tools and Python/scripts to support operational and business requirements.
- Built simple applications using Microsoft Power Platform and administered services across AWS, Azure and Google Cloud.
- Monitored networks and systems using Checkmk, Zabbix and Nagios; supported Cloudflare, Check Point and Office 365 administration.

Science Educator | The Inventors

Dec 2017 - Jan 2019 · Lisbon Area, Portugal

- Delivered practical classes and workshops focused on programming, robotics, electronics and animation.

CORE TECHNOLOGIES

OS / LIFECYCLE	AUTOMATION / CONTAINERS	KUBERNETES PLATFORMS	SERVICE OPERATIONS / HA
<ul style="list-style-type: none"> • RHEL, SUSE, Oracle Linux, AIX • Debian, Ubuntu, Arch-based Linux • Red Hat Satellite, Foreman, SUSE Manager • Provisioning, patching, major upgrades • Repositories, baselines, compliance workflows • LVM, filesystems, systemd, boot troubleshooting • Controlled maintenance windows and production support 	<ul style="list-style-type: none"> • Ansible, Ansible Runner, Python, shell scripting • Playbook development, reusable roles/tasks, inventories, collections • Health checks, reporting, validation scripts • Pre/post-patching automation and operational checks • Docker, Podman, Docker Compose, Dockerfiles • Portainer, LXC, container networking and volumes • Git repositories for Ansible code and configuration tracking 	<ul style="list-style-type: none"> • Kubernetes, OKD, Rancher, K3s • Node lifecycle, namespaces, RBAC • CNI/CSI, PV/PVC and storage/network integration • Ingress exposure, service routing and workload deployment • Kubernetes manifests and Git-based version control • Observability, certificate/configuration handling • Platform and workload troubleshooting 	<ul style="list-style-type: none"> • Pacemaker, Corosync, CRM/pcs • SAP HANA, SAP application services and SFTP HA services • Cluster resources, failover behaviour, quorum/fencing awareness • Apache HTTPD, Nginx, HAProxy, Traefik • Reverse proxying, load-balancing concepts, TLS/certificates • Checkmk, Zabbix, Nagios, custom monitoring plugins/scripts • ITSM ticketing workflows and incident follow-up

CERTIFICATIONS

Red Hat Certified System Administrator (RHCSA) · AWS Certified Cloud Practitioner · CCNA SRWE · CCNA ENSA



EDUCATION

- IEFP Alcoitão - Programador Informático, Level 5 - Information Technology (Dec 2019 - Sep 2021)
- ISPA - Instituto Universitário - Licenciatura in Psychological Sciences (Oct 2014 - Jul 2018)

NATIONALITY & LANGUAGES

- Nationality: Portuguese (Portugal)
- Portuguese: Native
- English: C2 - proficient / near-native working level

INTERESTS

- Managing own infrastructure / homelab
- 3D modelling
- 3D printing
- Diving