

Raj Patel

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Summary

Highly skilled Systems Administrator with around 3 years of experience managing enterprise infrastructure and cloud environments. Expertise in virtualization (VMware, Hyper-V), cloud platforms (Azure, AWS, GCP), and automation using PowerShell, Python, and Ansible. Proven track record of enhancing operational efficiency, implementing robust security measures, and optimizing IT infrastructure. Demonstrated ability to reduce new computer deployment time by 35% and ensure 99.9% application uptime through strategic implementation of clustering and backup solutions. Adept at managing Windows and Linux environments, containerization technologies, and implementing disaster recovery strategies. Committed to leveraging cutting-edge technologies to drive operational excellence and contribute to organizational growth.

Skills

Technical skills:

- Operating Systems: Linux (Debian, RedHat, Suse, Arch), Windows, iOS, Android, MacOS
- Virtualization: VMware ESXi, HyperV, QEMU/ KVM, XCP-NG, Proxmox
- Cloud Platforms: Azure, GCP, AWS, Linode, Vultr, Digital Ocean
- Infrastructure and Networking: Active Directory, DNS, DHCP, IIS, Apache, Nginx, SQL Server, MariaDB, Pi-Hole, Certificate Authority, WSUS, SMB, GPO, WDT, MDS, STIG, pfSense, SSL management, Sophos, Office 365, Exchange Online, Let's Encrypt, Ansible, Ansible Semaphore, WordPress, Teleport, etc
- Scripting and Programming: Python, PowerShell, Bash, Ansible
- Container Orchestration: Docker, Kubernetes, Podman
- Backup and Disaster Recovery: Veeam, Datto, N-able Cove

Skills in Development:

- Preparing for Certified Kubernetes Administrator certification

Work Experience

Motio Business Technology IT Systems Administrator

Grand Haven, MI

Oct 2023 - July 2024

Job Responsibilities:

- Created custom Windows images and standardized Windows computer deployments for all clients, reducing new computer setup time by 35% using MDT and WDS.
- Automated Windows patching and application deployments using PowerShell and Screen Connect Automate.
- Developed PowerShell scripts to reduce human effort by 90% including AD user account creation, AD user offboarding, AD password expiry notifications, automatic password generation, and AD password resets.
- Deployed physical and virtual servers with various configurations based on ESXi and Windows Servers.
- Implemented vCenter servers for clients, achieving high availability for critical workloads and simplifying VM and ESXi management.
- Deployed backup solutions using Veeam and Datto, ensuring data integrity and quick recovery times.
- Created offsite immutable backup buckets on Backblaze and tested restore mechanisms to ensure data availability.
- Deployed LAMP stack environments on Ubuntu Server and hosted WordPress sites, improving website performance and reliability.
- Managed Apache configurations for serving multiple websites from one host and handled SSL certificates from Let's Encrypt, enhancing website security and performance.
- Utilized Windows Server 2022, Windows Server 2019, Hyper-V, Putty, Remote Desktop Connection, Windows 11, Windows 10, Office 365 Admin Center, Exchange Online, Ubuntu Server, Azure Active Directory, MDT, WDS, PowerShell, Automate, and IT Glue to streamline IT operations and improve system efficiency.

Integrated Bioscience System Administrator

Richmond, KY

Oct 2022 - Oct 2023

Job Responsibilities:

- Managed Windows and Linux servers for AD, DNS, DHCP, and file sharing.
- Migrated physical servers to a Hyper-V virtualized environment and implemented Hyper-V clustering for high availability.
- Managed Sophos VPN, firewalls, and intrusion prevention systems; created STIGs and Group Policies for enhanced security compliance.
- Centralized authentication with LDAP and Azure Active Directory; set up SSO for seamless access across resources.
- Automated patching and upgrades, reducing system vulnerabilities and downtime by 20%.
- Developed PowerShell and Python scripts for system monitoring and enhancement.

- Automated deployment using WDS, MDT, and GPOs, reducing deployment time by 30% and minimizing errors.
- Implemented Veeam solutions for backups and disaster recovery, ensuring data integrity and quick recovery times.
- Managed print servers and deployed printers via GPOs, enhancing printing efficiency and reducing downtime.
- Created comprehensive documentation for all systems and software, improving troubleshooting efficiency.
- Provided end-user education on security best practices, reducing security incidents.

Integrated Bioscience

Richmond, KY

Jr. System Administrator

Oct 2021 - Oct 2022

Job Responsibilities:

- Deployed and managed Active Directory for centralized authentication, improving user management and security.
- Created user accounts, groups, and organizational units, ensuring efficient access control and organization.
- Set up LDAP and Azure AD for SSO, enhancing user experience and security through streamlined authentication.
- Deployed DNS and DHCP roles on Windows Servers, ensuring reliable network services and efficient IP address management.
- Maintained print servers and deployed printers via GPO, ensuring seamless printing operations for over 200 users.
- Developed PowerShell scripts for application deployment, reducing manual installation time by 30%.
- Automated OS installation using WDS and custom images, decreasing setup time for new systems by 50%.
- Configured Windows firewall for remote access via DirectAccess, enhancing secure remote connectivity for employees.
- Developed STIG rules to meet security compliance standards, ensuring the organization's systems adhered to federal security guidelines.
- Managed Windows patches using WSUS, ensuring systems were up-to-date and secure.
- Utilized PowerShell for administrative tasks and troubleshooting, improving system efficiency and reducing downtime.
- Maintained and managed environments including Windows Server 2019, Windows Server 2016, Hyper-V, Putty, Remote Desktop Connection, Windows 10, Windows 8.1, and Office 365, ensuring optimal performance and security.

West Virginia State University

Institute, WV

Teaching Assistant

Aug 2020 - Apr 2021

Job Responsibilities:

- Assisted students in learning and applying C programming language concepts.
- Simplified complex problems to enhance student understanding and engagement.
- Tutored students on various programming concepts including loops, if-else statements, pointers, switches, functions, and preprocessors.
- Demonstrated best practices for writing clean, well-documented code.
- Provided support and instruction using Turbo C++, QuickC, and Dev-C++, resulting in improved student performance and comprehension.

West Virginia State University

Institute, WV

Research Assistant

Mar 2020 - Nov 2020

Job Responsibilities:

- Developed a Python program using HSPF to retrieve real-time data on water quality, levels, flow, and evaporation rates.
- Extracted and analyzed water quality data for specific geographic coordinates.
- Created line charts to visualize and analyze water levels over time.
- Built a responsive website using Next.js to display real-time water quality data.
- Led a hydrography project, utilizing VM resources and Shell scripting, resulting in comprehensive technical documentation which can be accessed from [here](#).

Education

West Virginia State University

Institute, WV

Master of Computer Science

Aug 2019 - Apr 2021

Parul Institute of Technology

Vadodara, India

Bachelor of Computer Engineering

Jul 2014 - Jun 2018