



CHARANJIT SINGH

(Cloud Architect)

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PROFESSIONAL SUMMARY

Cloud Architect and DevOps Leader with 19 years of experience designing, modernizing, and operating enterprise-scale infrastructure across Azure and AWS. Proven expertise in architecting secure, scalable, and resilient cloud platforms using Infrastructure as Code (Terraform), automated configuration management (Ansible), and CI/CD pipelines. Strong background in cloud governance, RBAC, Azure Policy, cost optimization, and observability, enabling reliable and compliant cloud operations. Experienced in leading cloud migration and modernization initiatives, bridging architecture, DevOps, and operations to deliver high-availability platforms and business-aligned solutions. Passionate about building cloud platforms that balance agility, security, and operational excellence.

KEY HIGHLIGHTS

- Architected and automated cloud infrastructure using Terraform and Infrastructure as Code (IaC) principles, ensuring scalability and reliability.
- Designed and implemented DevOps pipelines using Azure DevOps and GitHub, optimizing software delivery and release management.
- Developed cloud-native architectures for AWS and Azure, focusing on cost optimization, security, and high availability.
- Defined cloud governance models, ensuring compliance with security best practices and industry standards.
- Led cloud migration projects, designing strategies to move Linux workloads to the cloud with minimal downtime.
- Optimized infrastructure performance through automation, Ansible configurations, and Linux server tuning.
- Integrated cloud security frameworks, implementing identity and access management (IAM), logging, and monitoring solutions.
- Provided technical leadership and architectural guidance to teams, enabling cloud transformation and DevOps adoption.
- Ensured 24/7 availability and disaster recovery readiness, designing fault-tolerant and resilient architectures.

CORE COMPETENCIES

- Azure and AWS Cloud
- Azure DevOps
- Projects Implementation
- Support Service Delivery
- Ansible and Terraform
- Client Management
- Mentoring and Coaching
- Problem-solving and Team Leadership
- Automation Solution Architecture
- Linux Systems Administration
- Middleware Patching
- Storage and Networking Management
- Distributed OS Administration
- Cloud Automation Frameworks
- Disaster Recovery Planning
- Incident Management
- Physical to Virtual Migrations (P2V)
- Performance Optimization
- Red Hat Satellite
- Suse Manager
- Power Servers' LPARs
- CI/CD Processes
- Mentoring and Coaching

TECHNICAL SKILLS

Operating Systems:	HP-UX 11iv3, Linux (RHEL, Suse, CentOS, Ubuntu), Windows Server
Cloud Platforms:	Azure, AWS, IBM Cloud
Scripting:	Bash Shell Scripting
Automation Tools:	Ansible, Terraform, AWX
Networking:	OSI Layer Concepts, TCP/IP, Iptables, Bonding, Teaming
MTA:	Sendmail, Postfix
Web Servers:	Apache, IIS
DNS Servers:	Bind 9
Backup Solutions:	Symantec Netbackup, Backup Exec, HP Data Protector
Storage Solutions:	IBM DS, NetApp FAS, HP EVA, MSA, MDS, Dell Powervault
Virtualisation:	VMware vSphere
Monitoring Tools:	Syslog, Rsyslog, Syslog-ng
CI/CD Management:	Azure DevOps, Github Action
Others:	LVM, LDAP, NFS, Kick-start Installation, Mrepo, Red Hat Satellite, Suse Manager
ITSM:	Service Now, IBM Maximo, HP SM
HPC:	Ansys Software (Ansys 2022 R2)

WORK EXPERIENCE

Nov 2024 – Present	Cloud Architect DevOps & Platform Engineering Mphasis, India <ul style="list-style-type: none">• Leads the design and implementation of scalable, secure, and cost-optimized Azure cloud architectures, ensuring alignment with business requirements, security controls, and enterprise governance standards.• Acts as architecture owner for cloud and DevOps platforms, collaborating with product owners, development, and operations teams to define technical roadmaps, integration strategies, and reference architectures in Agile/Scrum environments.• Designs and governs Infrastructure as Code (IaC) frameworks using Terraform, developing reusable, standardized modules to deliver consistent, compliant, and auditable Azure environments across multiple stages.• Architects configuration management and automation strategies using Ansible for OS hardening, patching, application configuration, and compliance enforcement, reducing configuration drift and operational risk.
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	<ul style="list-style-type: none"> • Designs and optimizes end-to-end CI/CD pipelines using Azure DevOps, integrating infrastructure provisioning, application delivery, security validations, and policy enforcement. • Implements enterprise DevOps practices using GitHub, Azure Repos, and GitHub Actions to enable secure source control, workflow automation, and controlled release management. • Defines and enforces Azure governance frameworks, including RBAC, Azure Policy, tagging standards, and security baselines, improving compliance, cost visibility, and access control. • Delivers observability and monitoring architectures using Azure Monitor, Log Analytics, and Application Insights to enable proactive issue detection and performance optimization. • Leads cloud migration and modernization initiatives, designing hybrid and cloud-native architectures leveraging Azure Virtual Networks, App Services, Storage Accounts, and integrated services with automated operational workflows.
<p>May 2024 – Nov 2024</p>	<p>Technical Lead – System Administration (Lead 2 – System Administration) Kyndryl Solution Pvt. Ltd., India</p> <ul style="list-style-type: none"> • Led and supported the Infrastructure and Cloud Operations teams, ensuring optimal performance and reliability • Oversaw the migration of Linux servers from VMware Cloud to Azure Cloud, ensuring seamless transitions with minimal downtime. • Configured and provisioned cloud infrastructure using Ansible and Terraform, ensuring scalable and efficient deployments. • Configured and managed Azure Monitor, Log Analytics, and Application Insights to track infrastructure health, performance metrics, and alerting for proactive incident response. • Created custom dashboards and alert rules in Azure Monitor to visualize system performance and identify potential issues before impacting services. • Addressed and resolved escalation issues, providing expert guidance and mentorship to junior Linux Admin teams. • Managed and executed significant change implementations, responding promptly to P1 calls and critical incidents. • Maintained 24/7 availability to tackle urgent issues, ensuring uninterrupted service and system stability. • Conducted Root Cause Analysis for incidents, developing Standard Operating Procedures to prevent future defects. • Spearheaded technical design and architecture discussions, driving innovation and best practices within the team. • Collaborated with cross-functional teams to ensure alignment on project goals and deliverables. • Fostered a culture of continuous improvement, encouraging knowledge sharing and skill development among the team. • Monitored and optimized system performance, implementing measures to ensure high availability and reliability. • Stayed updated with industry trends and technologies, integrating relevant advancements into the team's practices.
<p>Feb 2024 – May 2024</p>	<p>Solution Lead – Application Architecture (Lead 2 – System Administration) Kyndryl Solution Pvt. Ltd., India</p> <ul style="list-style-type: none"> • Spearheaded the Ansible Expansion Program at Kyndryl, enhanced process automation for Middleware, Backup & Restore, Storage, Networking, and OS administration • Evaluating the feasibility of automation requests and exploring the reuse of existing assets within the Azure and AWS Cloud Automation Community Framework • Designing new automation solutions to meet evolving business needs and technological changes • Provided guidance and support to Argentina-based developers, ensuring the successful completion of complex development projects • Managed the lifecycle of automation assets to maintain their effectiveness in ongoing automation initiatives
<p>Sep 2021 - Feb 2024</p>	<p>Team Lead & Linux Subject Matter Expert (Lead 2 – System Administration) Kyndryl Solution Pvt. Ltd., India</p> <ul style="list-style-type: none"> • Led a US-based Construction consulting firm's global Linux System Administration team, managing hybrid cloud infrastructure on Azure and VMware • Enhanced Linux system stability and uptime by adopting industry best practices • Collaborated with cross-functional teams on Linux-related projects and migrations • Provided 24/7 support for critical incidents and disaster recovery, ensuring rapid server recovery • Mentored team members, promoting professional development and managing agile workflows • Developed advanced automation solutions using Bash, Ansible, Nexus, and GitHub • Managed security patch deployments and server migrations across various RHEL versions • Designed and maintained Linux infrastructure on VMware and AZURE platforms • Identified and leveraged improvement opportunities to enhance solution designs and standards • Contributed to diverse projects beyond traditional Linux management • Planned and executed physical, virtual, and cloud computing resource expansions • Built, Optimized and supported HPC solution on VMware RHEL 8 VMs for Ansys 2022 R2 • Utilized work management tools for efficient implementation and incident resolution • Conducted Root Cause Analysis for issues and developed SOPs for defect prevention
<p>Apr 2020 - Sept 2021</p>	<p>Linux Subject Matter Expert IBM India Pvt. Ltd., India</p> <ul style="list-style-type: none"> • Collaborated with EMC, VMware, AT&T, and SAP HANA teams to integrate technologies into VMware Private Cloud • Developed CI/CD-focused deployment solutions using Bash, Ansible, Nexus, and GitHub through Ansible Tower • Managed security patches for RHEL 7 and SUSE Linux on SAP servers using Red Hat Satellite and SUSE Manager • Designed and supported Linux environments on VMware Private Cloud and Power servers' LPARs • Executed tech refreshes, migrations, and hardware replacements across Linux platforms • Identified and implemented improvements for Linux server platforms to enhance system efficiency • Collaborated with design and architecture teams to refine solutions and standards • Conducted knowledge transfers and mentored staff, enhancing team capabilities

	<ul style="list-style-type: none"> Planned and executed expansions of physical and virtual computing resources Provided 24/7 support for significant incidents and disaster recovery to meet RTOs
Mar 2015 - Apr 2020	Linux Administrator (L3-Level) IBM India Pvt. Ltd., India <ul style="list-style-type: none"> Provided Level 3 support for a global gas and oil company's private cloud infrastructure Managed Red Hat Linux patches and conducted server hardware/software maintenance Performed troubleshooting and migrations using VMware vSphere Client and physical hardware server management consoles Conducted migrations from physical machines to VMware using VMware Converter Configured and monitored HP server hardware using HP Systems Insight Manager (HP SIM)
Jan 2009 - Feb 2015	Senior Project Consultant PC Solutions Pvt. Ltd, India <ul style="list-style-type: none"> Managed Red Hat Cluster Suite and delivered system integration projects for leading global telecommunications companies
Jan 2007 - Jan 2009	Customer Support Engineer PC Solutions Pvt. Ltd, India <ul style="list-style-type: none"> Administered American Express servers, provided Level 2 support for end-user desktops and laptops, and managed both Windows and Linux server environments
EDUCATION	
2016	<ul style="list-style-type: none"> Master of Business Administration (MBA) from Sikkim Manipal University, India
2015	<ul style="list-style-type: none"> Bachelor of Science in Information Technology (BSc IT) from Sikkim Manipal University, India
CERTIFICATIONS AND TRAINING	
<ul style="list-style-type: none"> Red Hat Certified Engineer (RHCE) for RHEL 8 – Ansible Hashicorp - Terraform Associate (003) Red Hat Certified System Administrator (RHCSA) for RHEL 8 IBM Cloud Private Infrastructure and Architecture 	<ul style="list-style-type: none"> HP-UX 11i3 Administration ITIL Certified Professional AWS Cloud Certified Agile Project Management