

## VEDKUMAR PRAKASH GUPTA

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### Contact

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### Summary

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Results-oriented Cloud Architect with 17 years of experience in designing, implementing and optimizing cloud solutions. Adept at combining technical expertise with strong business acumen to deliver innovative and scalable cloud architectures. Seeking a challenging role as a Cloud Architect to leverage my skills in cloud technologies, DevOps practices, and infrastructure automation.

### Skills

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- Cloud Platforms: Amazon Web Services (AWS), Microsoft Azure, IBM cloud
- DevOps Tools: Argo CD, Jenkins, Git, Docker, Ansible, Terraform, Chef, Puppet
- Containerization and Orchestration: RedHat OpenShift, Kubernetes and Docker swarm
- Infrastructure as Code: ARM templates, Terraform
- Virtualization: VMware vSphere, RedHat Virtualization, KVM, Hyper-V
- Networking: TCP/IP, DNS, Load Balancing, VPN
- Scripting and Programming: Bash, PowerShell, YAML
- Monitoring and Logging: ELK Stack, OpenSearch, Dynatrace, Prometheus, Grafana, CloudWatch, Azure Monitor
- Security: IAM, Security Groups, SSL/TLS, Network Security
- Operating Systems: Linux (Red Hat, CentOS, Ubuntu), Windows Server

### Experience

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#### **RedHat Architect | IBM INDIA PRIVATE LTD | Mumbai | April 2022 – Present**

- Designed and implemented highly available and scalable cloud architectures on AWS and Azure, reducing infrastructure costs by 20% while improving system performance.
- Led the migration of legacy on-premises infrastructure to the cloud, resulting in improved agility, scalability, and cost efficiency.
- Implemented containerization using Docker and orchestration with RedHat OpenShift and Kubernetes, leading to improved scalability, resource utilization, and application portability.
- Implemented infrastructure-as-code practices using tools like Terraform, Ansible, and Chef, reducing deployment time by 30% and ensuring consistency across environments.

- Implemented CI/CD pipelines using Jenkins, Git, and Docker, enabling faster and more reliable application deployments, reducing time-to-market by 50%.
- Developed and maintained configuration management scripts using Ansible, automating the provisioning and configuration of cloud resources.
- Collaborated with cross-functional teams to ensure compliance with security standards and best practices, implementing IAM roles, security groups, and encryption mechanisms.
- Conducted performance analysis and optimization of cloud resources, leveraging monitoring and logging tools to identify and resolve bottlenecks.
- Orchestrated Nginx ingress controller and MetalLB load-balancer for on-prem Kubernetes cluster, enhancing application availability.
- Implemented Argo CD on Kubernetes, automating continuous application deployment.
- Conducted resiliency testing for microservices on OpenShift Platform, ensuring robustness and fault tolerance.
- Configured and maintained monitoring and alerting systems (ELK Stack, Prometheus, Grafana), enabling real-time visibility into application and infrastructure performance.
- Provided technical guidance and mentoring to junior team members, contributing to their professional growth and knowledge enhancement.

#### **Technical Lead | Wipro Ltd | Mumbai | June 2014 - April 2022**

- Managed a team of 8 to 10 engineers, providing support for customer infrastructure and ensuring seamless operations.
- Demonstrated expertise in designing, installing, and configuring a wide range of cloud technologies, including AWS EC2 instances, VPC, Route Tables, Autoscaling Groups, EBS, NAT gateway, CDN, ELB, IAM, S3, Route 53, and CloudWatch. Successfully migrated on-premises applications to the AWS cloud for the National Stock Exchange (NSE).
- Implemented RedHat, VMware, Hyper-V and KVM virtualization solutions, including highly available cluster suites, server consolidation, virtual networking, and site recovery. Deployed TKGI clusters (Kubernetes) for the National Stock Exchange (NSE).
- Led the deployment and management of DevOps environments using Jenkins, Git, Docker, Chef, and Ansible. Installed and configured Jenkins for automated CI/CD pipelines, managed infrastructure using Chef, executed tasks with Ansible, and provisioned resources using Terraform.
- Installed and configured Oracle Enterprise Manager (OEM) Cloud Control, MySQL enterprise servers, Qmail server, Zimbra Collaboration Suite, and Email Archiving solutions.
- Provided L3 support for technical issues, troubleshooting and resolving challenges promptly and effectively.

**Sr. Linux System Administrator | Blue Star Infotech Ltd | Mumbai | June 2010 - May 2014  
(June 2010 - Feb 2011 on Crystal solutions Pvt Ltd Pay role)**

- Installed and configured SAS for Payback Loyalty Solutions & Research Pvt Ltd., enabling ICICI Bank to leverage the power of SAS for loyalty programs. I also established and configured the RHEL infrastructure to ensure seamless operations and optimal performance.
- Configured Oempro with postfix for GRG India, facilitating the sending of marketing mailers through Amazon SES. This integration enhanced their marketing capabilities and expanded their reach effectively.
- Implemented the open-source OTRS Ticketing system, enhancing incident handling for the NOC team. This efficient ticketing system streamlined incident management processes, enabling prompt resolutions.
- Managed the implementation and ongoing management of RHEL servers for WebSphere on VMware vSphere infrastructure. By ensuring high performance, scalability, and reliability, I supported critical applications with a robust server environment.
- Successfully implemented Linux File servers and executed the migration of Windows File servers across the organization. This migration initiative resulted in significant cost savings and improved file management efficiency.
- Configured Qmail server with Spam Assassin, implementing effective filtering mechanisms for incoming emails. This enhanced email security and reduced the impact of spam and malicious content.
- Deployed Nagios, Smoke Ping, and Cacti network graphing solution, leveraging open-source tools to monitor the organization's entire infrastructure. This proactive monitoring approach resulted in substantial cost savings and early detection of potential issues.
- Executed the seamless migration of the OCS inventory system from Windows to Linux, ensuring a smooth transition and improved efficiency in inventory management.
- Implemented a comprehensive Squid proxy server with Squid Guard, enabling website filtering and internet access control organization-wide. This deployment enhanced security measures and improved productivity by managing internet access effectively.
- Deployed Bind DNS server and performed the migration of public hosted DNS from a vendor to an on-premise DNS server. This migration initiative enhanced control and security over the organization's DNS infrastructure.
- Installed and configured FTP and SFTP servers to establish secure file sharing capabilities outside the organization, ensuring the confidentiality and integrity of sensitive data during external transfers.
- Led the implementation of VMware vSphere, including the installation of ESXi servers and the consolidation of physical servers to virtual machines using advanced cloning technology. Additionally, I created and configured clusters, implemented High Availability (HA) and DRS, created templates, performed cloning operations, and established backup policies with

appropriate alerts. This initiative improved resource utilization, resilience, and efficient virtual server deployment.

**Linux System Administrator | Katalyst Business Solutions Pvt Ltd | Navi Mumbai | October 2009 - June 2010**

- Successfully managed and maintained a remote infrastructure of over 100 Linux servers, ensuring their optimal performance and availability.
- Proficiently handled various control panels, including cPanel, Ensim, HSphere, Plesk, and DirectAdmin, effectively managing server configurations and user accounts.
- Demonstrated expertise in configuring and integrating multiple mail servers, such as Postfix, Qmail, Exim, and Sendmail, to facilitate reliable email communication.
- Implemented and integrated Postfix with Amavis for enhanced email security and spam filtering capabilities.
- Installed and configured Apache web server from source and RPM, expertly configuring dynamic modules and facilitating seamless integration with Tomcat. Accomplished SSL certificate configuration to ensure secure communication.
- Successfully set up and configured ProFTPD and Vsftpd with chroot for secure file transfer protocols. Implemented Samba Domain Controller to facilitate centralized authentication and file sharing.
- Proficiently managed Bind DNS server, MySQL databases, and MySQL replication, ensuring efficient and reliable DNS resolution and database operations.
- Installed and configured Nagios server to establish a comprehensive monitoring solution for both Linux and Windows servers, enabling proactive identification and resolution of system issues.
- Actively interacted with clients through ticketing systems and chat platforms, promptly addressing their queries and resolving technical issues in a professional and customer-centric manner.

**Linux System Administrator | GSA Infotech | Navi Mumbai | May 2008 - October 2009**

- Proactively managed and troubleshooted Local Area Network (LAN) infrastructure, ensuring smooth operations, high availability, and minimal downtime.
- Configured and managed the NFS server, facilitating efficient file sharing and storage across the network, streamlining collaboration and data accessibility.
- Implemented and configured SAMBA, enabling seamless file sharing between Linux and Windows systems, enhancing cross-platform compatibility and productivity.
- Successfully set up a Secure FTP Server with a Chroot jail, establishing a secure environment for file transfers and safeguarding sensitive data against unauthorized access.

-Managed the configuration and maintenance of Postfix/Dovecot mail servers, ensuring reliable and efficient email communication within the organization, optimizing workflow and enhancing collaboration.

#### **Technical Support Engineer | Indian Airlines | Mumbai | March 2007 - April 2008**

-Configured and integrated Apache with Tomcat webserver, optimizing web application performance and ensuring seamless integration between the two platforms.

-Managed and troubleshooted the Local Area Network (LAN), resolving network issues promptly to minimize downtime and maximize network efficiency.

-Successfully maintained and troubleshooted desktop and printer-related problems, providing timely resolutions and ensuring smooth operations for end-users.

-Monitored the Linux server, proactively identifying and resolving any performance issues, applying patches and updates as necessary to maintain system stability and security.

#### **Education**

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- BCA from Sikkim Manipal University of Health, medical and Technological sciences (2006-2009)

- B.E (IT) (2nd Year) from Fr. Conceicao Rodrigues Institute of Technology, Navi Mumbai (2004-2006)

- Diploma in Information Technology from Terna Polytechnic, Navi Mumbai (2001-2004)

#### **Certifications**

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- Red Hat Certified Specialist in OpenShift Administration, 2022

Certification ID: 110-205-903

- Terraform Certified Associate, 2022

- AWS Certified Solutions Architect, 2021

Validation Number: SZ04B8DDDNB110KT

- VMware Certified Professional - Data Center Virtualization (VCP-DCV), 2014

Verification Code: 11948524-BE93-C0D4DD0AC89F

- Red Hat certified Engineer (RHCE), 2008

Certification ID: 110-205-903