

HARDEEP SINGH

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PROFESSIONAL SUMMARY

- Adept DevOps with a strong Linux background over 14 experience in Architecting DevOps and SecOps strategies within an Agile environment which includes Virtualization, Cloud, Cloud Security planning, Network Architecture, Administration, Production Support (Automation) and in DevOps.
- An in-depth understanding of Public and Private Cloud technology, Continuous Integration/Delivery, IaC (Infrastructure as Code) and CM (Configuration Management) ideally using Jenkins, Ansible and Terraform.
- Experienced in Solution provisioning, Migration, DR and Business Continuity Plan, IT Projects Management and global team handling, SOPs and best practice, IT security audit, experience of working with clients, configuration management and automation, security appliances, IDS/IPS, WAF/Shield and modern attacks mitigation.
- Containerization (Docker) and Container Orchestration (Kubernetes) using best practices to secure/harden and scan these technologies based upon security best practices (OWASP).
- Skilled in Designing and Implementation of highly scalable web environments (Development/Testing/Staging/Production) on cloud (AWS) with best in breed DevOps tools and CI/CD pipeline across projects.

CERTIFICATIONS

- **AWSCertified SolutionsArchitect Professional**(CertificationNumber: XF3XG6FKDFRQQVW9)
- **AWSCertified SolutionsArchitect Associate** (Certification Number: 0KKZTYD2B2BE175R)



SPECIALTIES

- **CI Tools:** Gitlab CICD, Jenkins, AWS Code Pipeline, Buildkite
- **Containerization/ Orchestration:** Docker and Kubernetes
- **Configuration Management:** Ansible, Docker and Vagrant
- **Automation:** Ansible, Terraform, Jenkins, Github, Gitlab CICD, and Shell scripting
- **Testing Tools:** Performace testing tools like ApacheBench
- **SCM and Code Review:** Git, GitHub, Gitlab, Bitbucket
- **Build tools:** ANT, Maven
- **Scripting:** Shell, Python (intermediate)
- **Logging:** ELK Stack, Syslog, NewRelic, Papertrail, Loki, Athena
- **Security Tools:** AWS Trusted Advisor, IDS, VAPT, IDP, AWS Inspector, Azure Security Center, Security Audit, Guardduty, Azure Advanced Threat Protection, AWS Shield, Azure DDos
- **Static Code Analysis (Engineering Metrics):** ZAP, OWASP, SonarQube, ETCD
- **Platforms & Servers:** Cloud / IAAS/ PAAS/ SAAS

- **Amazon Web Services:** (VPC, EC2 Instances, RDS, Auto Scaling, Athena, SSM, ACM, Glue, Inspector, GuardDuty, ELB, Route Tables, NACLs, Endpoint, CloudFormation, Code Deploy, ECS, EKS, Lambda and SNS).
- **Administrative tools:** JIRA, Confluence
- **Monitoring tools:** Azure Monitor, Insight, AWS CloudWatch, NewRelic, Grafana, Prometheus and FAN (Fully automated Nalos)
- **Cloud Networking & Security:** Cloudflare WAF, AWS VPC, Vnet, VPN, Route 53, Azure DNS, Direct Connect/Express Route, App Gateway, Load Balancing, NLB, IAM, Microsoft Identity Manager, Application Security, Network Security, Cloud Security, WAF, Security Planning, Security Policies, AWS trusted Advisor, SQS, SNS... etc.

PROFESSIONAL EXPERIENCE

Maropost India Pvt. Ltd.– Mohali, India

TECHNICAL MANAGER, DevSecOps

(Feb 2021 - Till Date)

Key Deliverables:

- Developed and documented technical designs, ETL architecture and framework for secure integration and implementation of new cloud infrastructure and application to improve performance, manage cost and drive efficiencies.
- Being a Technical Manager (Software as a Service), managing DevOps, Infra and Data Eng. teams and evaluate and implement new technologies, products, tools used in the application development environment.
- Performed vulnerability threat assessment with LoopSec, and Qualys.
- Utilized CloudWatch, CloudTrail, SQS, Redis and Elasticsearch for message queuing and log aggregation, used Loki for real time log analysis, alerts with Grafana.
- Oversaw cloud infrastructure design and developed detailed architecture models for customers to host Test, Dev, Staging and Production environments.
- Planned for system and application migrations to the cloud, adhering to the customer's technical and business requirements.
- Built CI/CD pipeline for customers with the use of Bitbucket/GitHub repositories, automation with Ansible/Jenkins and ran Docker containers in ECS or Kubernetes while reducing the TTD.
- Design solutions that ensure maximum flexibility and scalability, while meeting all required security controls.
- Used CI/CD tools Jenkins, Git/GitLab, Jira and Docker daemon for configuration management and automation using Ansible.
- Hands on experience in CloudFlare services such as WAF, Rate Limiting, Security, SSL for SaaS etc.
- Develop and maintain application development project plans: schedule scope of work, create project plans and identify critical path activities and dependencies.
- Provide leadership and spearheaded project team in development activities including the creation of data models, application code, user documentation and testing plans.

NetSmartz LLC – Chandigarh, India

TEAM LEAD, DevOps

(Feb 2018 – Feb 2021)

Key Deliverables:

- Architect, construct, and implement robust security measures and validation procedures across AWS and Azure cloud environments. My expertise extends to encompassing cloud security, application security, and vulnerability management. I am dedicated to fortifying the integrity of systems through the thoughtful design and execution of security protocols, ensuring a resilient defense against potential threats and vulnerabilities.

- Being Teal Lead in NOC, my job has wide range of responsibilities that span IT development, particularly in Cloud Infrastructure and DevSecOps. My mandate includes the enhancement of existing processes and technologies, coupled with the implementation of cutting-edge solutions. This encompasses Automation, Infrastructure-as-Code (Infra-as-a-Code), CI/CD Pipelines, Docker, Kubernetes, and the Micro-Services model.
- I am deeply involved in aspects such as Monitoring and Alerting, Capacity Planning, and the establishment of Security Standards. Additionally, I contribute to shaping the Technology Roadmap, ensuring that our Infrastructure Technology aligns with enterprise-grade standards to meet the demands of the next generation.
- In my client-facing role, I serve as a liaison to collect functional requirements and specifications from clients, developers, and users. I collaborate closely with both the intake team and enterprise architects to gain a comprehensive understanding of client expectations and any potential limitations. My responsibilities also include monitoring timelines and progress to ensure that team members adhere to these specifications, fostering effective communication and alignment throughout the project lifecycle.
- Proactively identified security threats in public cloud infrastructure.
- Identified gaps in vulnerability management tooling and worked with our technical partners and clients to assist with remediation of cloud vulnerabilities.
- Managed security vulnerability lifecycle from detection to notification and closure within the customer security engineering team.
- Automated email notifications for Database, High CPU Utilization etc. on Linux server.
- Formulated multiple servers on various datacenter as well as Cloud Environment.
- Worked on Lambda function for backup the file from production environment to EFS.
- Troubleshooting, Maintenance and Automation using Bash Scripting on Servers

Hitachi Micro Systems – Chandigarh, India

SR. TECHNICAL ENGINEER, DevOps

(Mar 2017 – Dec 2017)

Key Deliverables:

- Major responsibility to look after the live Linux servers lying in DATA CENTERS.
- Worked on CI/Jenkins by creating and scheduling jobs and builds and deployments using the same.
- Automate deployment process: with git, artifacts, Jenkins and tomcat servers in DEV, QA and PRODUCTION Environments.
- Installation, configuration, monitoring, performance tuning, failover support for Linux applications and network services. Applications include Open-LDAP, services include Postfix, Samba, Apache, Bind, etc.
- Configuration and management of LINUX Servers Mail Servers, SFTP Server, Apache, MySQL, NTP Server.
- Installation of MySQL and PostgreSQL on Linux servers, PHP, JDK, Apache, Tomcat like application server and to get Apache and tomcat integrated for getting better performance of web server. To do the performance tuning in MySQL database server and tomcat.
- Key role is to deploy and manage infrastructure requirement, co-ordinate with other teams for BIND based DNS entries, troubleshooting resolver issues, load balancing, NFS, DHCP, Installation of Tomcat application servers on Linux Servers.
- Automated Installation and deployment process of RHEL servers with kick start and configured Centralized repositories for Linux rpm installs (includes custom) and update patches. Expertise in network administrator, configuration, troubleshooting, performance tuning, preventive maintenance and security procedures
- Ensuring security and compliance through automate patch management of operating system as well as antivirus and updates the server / clients with latest service pack hot fixes.
- Good technical skills for maintaining system Network within operations and Internet Protocol services nationwide, critical role in maintaining 24/7 operational environment.

Impinge Solutions Pvt. Ltd. – Mohali, India

NETWORK ADMINISTRATOR

(May 2015 – Feb 2017)

Key Deliverables:

- Delivered expertise in Installing, configuring, supporting and maintaining servers (in-house & client)
- Managed AWS Services, multiple migration processes, server security and back-ups
- Worked on AWS EC2 environment. (EC2, RDS, S3, Route 53, ELB, VPC, etc.) and Azure.
- Configured NAT, Port forwarding, Access rules and to maintain the network security and monitoring in Cyberoam Firewall.
- Performing back-ups
- Applying operating system updates, patches, and configuration changes
- Adding, removing, or updating user account information, resetting passwords, etc.
- Troubleshooting and maintaining sites through CLI /cPanel, WHM, Plesk.
- Worked on GitLab Server.
- Configured the SAN over VMware ESXi on maintain the local backup.
- SSL implementation on IIS, cPanel, Plesk, Plain servers etc.
- Handling Mail-Enable application on Server 2008 R2 for maintaining the mails.
- Configuring and Technical Support for all types of critical issues with Postfix Servers.

Bursys Infotech Pvt. Ltd. – Panchkula, India

SYSTEM ADMINISTRATOR

(Oct 2013 – Oct 2014)

Key Deliverables:

- Maintained the Workstations and Server on Virtual Environment built on VMware.
- Basic level shell scripting.
- Handled the Smoothwall Firewall for secure network.
- Managed Linux Operating systems to provide development environment in Virtual as well physical systems.
- Configured the Samba within VMware workstation for sharing the Linux machine with windows machines.
- Worked on SSH, SFTP, SMB and CIFS.
- Worked on LAMP in Ubuntu.
- Maintaining the MySQL Backup of remote as well local client.
- Secure network resources with shared folder permissions.
- Remote Administration using terminal service in Windows and Linux Environment.
- Handling Microsoft Office Outlook Web Access and Maintenance of Microsoft Office Outlook E-mail.
- Well understanding of Bridging and switching concepts and LAN technologies.

VFirst Digital Media Pvt. Ltd. – Parwanoo, India

IT ADMINISTRATOR

(Feb 2012 – Aug 2013)

Key Deliverables:

- Installing, configuring and maintaining Network Equipment's & Devices and Windows.
- Configuring Active directory; creating users and group and allotting permissions on resources such as File and Print Server.
- Designing, installing & administering Windows Servers, performing OS hardening and optimizing servers for high efficiency.
- Install proxy server and NAT server.

- Install DHCP server, create scope.
- Worked on Smoothwall Firewall Linux Based OS.
- FTP server, YUM server, NFS, Samba Server, Apache server.
- Install DC, create and manage domain users, groups and O.U.
- Managing the following activities:
- Installation, configuration, maintenance and troubleshooting of windows 2003,2008
- User and group policy Adm Templates.
- DNS DHCP.
- Outlook client configuration through office 2010, 2013 on POP3, IMAP.
- Microsoft windows server 2003 (administration implementation and troubleshooting) with AD DNS.
- Maintaining system check list and hardware accessories list.
- Provide support on client VPN tools. Provide support on Linux OS.
- Managing and maintaining Server rack and Switches rack.

PREVIOUS EXPERIENCE

DOEACC Society – Chandigarh, India

NETWORK ENGINEER

(Aug 2010 – Jan 2012)

PROJECTS HANDLED

Title	From Date	Till Date	Platform & Tools
Ecommerce Application (AWS Cloud)	Dec 2021	Till date	AWS Services, Buidlkite Pipeline, Terraform, Ansible, Puppet, Nginx, Varnish, Cloudflare, Redis, Memcached, Bash scripts, Dockerfile, ECS.
Samsung Estore shop.samsung.com/in	<i>Feb 2018</i>	<i>Jul 2019</i>	AWS Services, Linux, AWS, Nginx, Apache, MySQL, EC2, ELB, Route 53, EBS, S3, CDN, Redis, SumoLogic, CloudWatch, Jenkins.
FinOps Application	Jan 2019	Feb 2021	GKE, Managed-OS Linux, Ansible, Grafana, ELK Stack, Prometheus, Loki, Wireguard, Kubernetes, Docker, Gitlab CICD.
Cypherworx	<i>August 2019</i>	<i>Dec 2020</i>	AWS Services, Linux, AWS, Apache, MySQL, EC2, ELB, Route 53, EBS, S3, CDN, Jenkins, Grafana
Copeland	<i>March 2020</i>	<i>Feb 2021</i>	Linux, Jenkins, Grafana, Prometheus, BareMetal, Ansible
United Health Group	<i>Mar 2017</i>	<i>Dec 2017</i>	Linux, CentOS, Unix, Managed-OS Linux, OpenVAS, Linux, Apache, DNS, DHCP, Docker, Jenkins, Ansible
MyTaxiRide	<i>Mar 2015</i>	<i>Feb 2017</i>	AWS Services, Managed-OS Linux, ELBs, Apache, RDS, S3

EDUCATION

- **BACHELOR OF TECHNOLOGY (COMPUTER SCIENCE)**, KC College of Engineering & IT, India – **2004 TO 2008**