# **Siddharth R**

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**Professional Summary**

## Over **8+** years of professional experience in **AWS & Azure,** strong knowledge on Cloud services like **EC2, S3, EBS, RDS, VPC, and IAM roles, Cloud Computing, Azure DevOps, Kubernetes.**

* Created **amazon EC2 instances** and maintaining with security groups. Architecting of **Elastic Load Balancers** with **EC2 Auto Scaling groups**. Maintaining **volumes**and mapping with **multi-AZ VPC instances.**
* Backup Setup Like **Snapshots** and **Amazon machine images (AMIs)** of the instances.
* Expert in Installation, Configuration and Administration of **Windows, Ubuntu Linux, Cent OS and RedHat Environments**.
* Mid level of understanding and using various **Ansible** features including Resource management (Package, Service, File), User Management, Modules, Class, Definition, Templates, Factor and external commands.
* Designed **end to end automation** of infrastructure and continuous delivery of the applications by integrating cloud formation scripts**, Jenkins, AWS & CHEF** cookbooks and recipes**.**
* Monitored system performance statistics like storage, CPU utilization and network bandwidth utilization.
* Defined **AWS**security groups which acted as virtual firewalls to control the incoming traffic onto **AWS EC2 instances.**
* Experience with broad range of **AWS Services**like **EC2**, Autoscaling, **VPC, Route53, S3, IAM, API Gateways, Lambda and Cloud Watch.**
* Experience in deploying and monitoring applications on various platforms using **Elastic Bean Stalk.**
* Monitoring from the accelerated development cycles enabled by consistent, structured builds to the operational excellence unlocked through integrated logging, metrics and **health** monitoring and management.
* Utilized **Cloud Watch** to monitor resources such as **EC2, CPU memory, Amazon RDS services, EBS volumes**, to set alarms for notification or automated actions and to monitor logs for a better understanding and operation of the system.
* Used **IAM** to create new accounts, roles and groups which are engaged in enabling **Lambda** functions for dynamic creation of roles.
* Used **Terraform** to set up the AWS infrastructures such as launching the EC2 instances, S3 buckets objects, VPC, Subnets, etc.
* Experienced with deployments, Maintenance and troubleshooting applications on Microsoft Cloud infrastructure **AZURE.**
* Implemented cloud services **IAAS, PAAS**, and **SaaS**which include **Openstack**, **Docker**and **Openshift**.
* Experience with in working in an **Agile / Scrum** environment and daily standup meetings.
* Focused on containerization and immutable infrastructure. **Docker** has been core to this experience, along with Marathon and **Kubernetes**information from the logs and database in the required format and other daily activities and jobs.
* Developed an **Azure-**based high performance compute environment to support the massive computational requirements of client congressional redistricting **Azure** application.
* Managing Amazon Web Services (**AWS**) infrastructure with automation and configuration management tools such as **Ansible**, **Puppet**, or custom-built designing cloud-hosted solutions, specific **AWS** product suite experience.
* Experience in using **Groovy**, **Maven** and **ANT** as a Build Tool for the building of deployable artifacts from source code.
* Windows Hyper, Real VNC, Putty, and **Oracle Virtual box**, Log Mein. AVG Cloud care, CRM Connect Wise Ticketing/Metrics.
* Experienced in source controller tools: **Subversion** (SVN), Bit Bucket, Gitlab and **GitHub** Enterprise.
* Wrote **Python** and**Shell** scripts to monitor installed enterprise applications and to get Managed the configurations of multiple servers using Chef.
* **24x7** on-call support & also documenting all the processes on issues caused and its solutions in timely manner.

**Technical Skills**

* **Azure:** Virtual Machine (Scale Set, Availability set), Azure SQL (Elastic Pools, Agents, Fail-over, Replication), Azure Cosmos DB, Azure App Service deployment and Maintenance (Auto Scaling,Diagnostics, App Insights), Azure Storage (Blob, Table, Queue, Files), Service Bus, Recovery Service Vaults, Radis Cache, Azure Search, Azure Automation (Windows / Linux update management, Antivirus, Azure DSC, Change tracking, Runbooks), Azure Security center, virtual network, Network Security Group, Azure backup, VM Disaster Recovery, Azure DNS, Office 365 Administration, Azure DDOS prevention, Alerts and Monitoring, power BI, key vault, Azure Active Directory, load balancing solutions (Azure Load balancer, Application Gateway, Azure Traffic Manager), Azure Front Door, Azure Batch Service, Azure CDN, Azure Scheduler, Event hub, Azure az.
* **AWS:** Amazon EC2, Amazon EC2 Auto Scale, Amazon S3, Amazon EBS, Amazon EFS, AWS Backup, Amazon S3 Glacier, Amazon RDS, Amazon VPC, Elastic Load Balancing, Amazon Route 53, Amazon SES, Amazon SNS, Amazon Lambda, AWS Step functions, SWF, AWS Cloud Formation, Amazon Dynamo DB, AWS X-Ray, Amazon Cloud Watch, Amazon API Gateway, Amazon Elastic Cache, ECS, ECR, Elastic Bean Stalk, Amazon MQ, Amazon SQS, AWS Firewall Manager, AWS IAM, Amazon Cognito, AWS WAF, AWS KMS.
* **Monitoring / Alerting**: Cloud Watch, Azure Monitoring, Dynatrace, PRTG, New Relic, Ops Genie.
* **Logging**: Splunk, GrayLog.
* **Build / Deployment Tool:** Jenkins, TeamCity, Octopus Deploy, Docker.
* **Configuration Management:** Azure DSC, Ansible.
* **Operating System:** Windows Platforms, Linux (Ubuntu, RedHat, CentOS).
* **Protocols:** TCP/IP, DNS, FTP, SMTP and HTTP HTTPS
* **.Net Framework**: .Net 3.0/4.0, ASP.Net
* **Frameworks:**Hibernate, Spring, Spring MVC, TestNG
* **Web technologies:**JSP, XML, HTML, CSS, JavaScript, AngularJS.
* **Programming Languages:**Java, Python, SQL, PowerShell.
* **Web Servers:** IIS 7.5/8.0/10, Apache Web Server.
* **Database Servers:** MySQL, SQL Server, Azure SQL.
* **Software methodologies:**Agile

**Education**

* Bachelor of Engineering, JNTUH – 2015
* Masters In Information Systems, Salt Lake City, UT - 2017

**professional experience**

**Excellus BCBS Nov 2021 - Present Location: Rochester, NY**

**Sr Site Reliability Engineer**

**Responsibilities:**

* Manage all aspects of the end-to-end Build/Release/Deployment process for many projects.
* Migrated Windows, Node applications, and SQL Server to AWS cloud environments from onprem.
* Skilled in managing AWS Cloud accounts and streamlining services to provide significant cost savings.
* Comprehensive knowledge of AWS technologies, including EC2, S3, EKS, VPC, DMS, AWS Glue, Amazon Appflows, CloudWatch, CloudTrail, AWS Lambda, AWS Config, Systems Manager, RDS, EFS, Route53, Traffic Manager, and IAM.
* Contributed for annual disaster recovery exercises for multiple applications.
* Supported the migration of Java applications from AWS EC2 to AWS EKS, enhancing system resilience and scalability.
* Facilitated multiple AWS service migrations from legacy AWS accounts to new AWS accounts.
* Spearheaded the implementation of GitOps for automated EKS deployments and scaling based on PR merges using Ansible.
* Developed expertise in EKS, managing cluster operations, optimizing container orchestration, and implementing security best practices to ensure robust, scalable, and secure containerized environments.
* Installed and configured Ansible AWX Tower on EKS, streamlining configuration management and deployment processes across distributed environments.
* Created a security framework using AWS Config, Lambda, and CloudWatch to prevent unauthorized S3 bucket policy changes, enhancing data security.
* Authored numerous Ansible playbooks for automation, reducing manual efforts and potential human errors in critical deployment processes.
* Transitioned from self-hosted Dynatrace to a SaaS model, optimizing monitoring capabilities and reducing operational overhead.
* Automated the migration of EV4 servers to Windows Server 2016 from 2003, ensuring up-to-date system capabilities and security.
* Provided critical support for Alteryx and Ephesoft applications, enhancing business process automation and document capture workflows.
* Designed and implemented CI/CD pipelines using Jenkins and Octopus Deploy for efficient, reliable deployments of Windows-based applications.
* Responsible for supporting applications on-premises and in AWS (EC2 and EKS), handling bi-weekly releases, and conducting annual password rotations.
* Troubleshot Java and Windows-based applications deployed on EKS and EC2, ensuring high availability and minimal downtime.
* Installed and configured Splunk on production workloads for comprehensive monitoring and real-time analytics, improving operational insights.
* Documented application support strategies and runbooks on Confluence, facilitating knowledge sharing and streamlined operations.
* Migrated existing AWS infrastructure to a new terraform state file and reduced manual efforts in migrating AWS services from one account to another account.
* Currently enhancing production workload resiliency by implementing Active-Active for blue-green deployment strategies for seamless and risk-minimized disasters.

**GlaxoSmithKline June 2020 to Oct 2021**

**Location: Upper Providence, PA**

**DevOps Engineer**

**Responsibilities:**

* Managed servers on the Microsoft Azure Platform Azure Virtual Machines instances using Azure PowerShell Templates
* Experience in dealing with Windows Azure PaaS and IaaS - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Traffic Manager, App Services, VPN, Load Balancing, Application Gateways, Auto-Scaling.
* Writing Power Shell scripts to automate the Azure cloud system creation including end-to-end infrastructure, VMs, storage, firewall rules, etc.
* Implementation of various DevOps automation tools to improve CICD pipeline process for Energy Billing Application.
* Maintains Source code versions using version control tools like Bitbucket.
* Product Release – Build the deployment system for continuous integration/continuous delivery (CI/CD) using TeamCity and Octopus together with Bitbucket (GIT) version control software. The automatic deployments to development environments and push-button (one-click) releases to production environments saved countless DevOps hours.
* Used PRTG, Gray log, New Relic, Azure Monitoring, CloudWatch and Ops Geine for Continuous Monitoring.
* Installed and Configured IIS for Windows Server including HTTP Headers and App Pool Configurations.
* Configure and maintain DNS systems using DNS Zones (Azure) and Route 53(AWS).
* POC on container base deployments using Docker and setting up Docker Swarm.
* Migrated On premise SQL servers to Azure SQL for Better performance and Cost optimization.
* Implemented Autoscaling scripts which improves Database performance during heavy load.
* Implemented Disaster Recovery strategy, Backup & Retention policy and Business continuity plan including Fail-over strategy.
* Configure Role Based Access Control (RBAC) for Azure Resources.
* Setup Hybrid connections between Azure web pass and on-premise SQL databases.
* TeamCity job setup for .Net applications using MS build and PowerShell scripting and MAVEN as a build tools on java projects for development of build artifacts on the source code.
* Develop PowerShell scripts, master and child configuration templates to automate multi environment and datacenter deployments.
* Configured scalable search services on azure.
* Configured secure and scheduled backups for on prem and cloud servers using Azure Backup.
* Experience working in and building Continuous Integration (CI) and Continues Deployment (CD) by building custom build and deployments jobs in Octopus Deploy and TeamCity.
* Experience working with Azure DSC for Configuration Management (CM).
* Involved in developing and migrating applications to Windows Azure Cloud Platform.
* Configuring Network Security Groups, Web application firewall (WAF) and Azure firewalls for production and non-production environments.
* Extensive exposure to database modeling and Relational Databases like SQL Server, SQL Azure.
* Create and maintain Azure Database according to the project needs.
* Involved in setting up infrastructure for Data migration.
* Implemented Web identity federation for external logins.
* Created and configured Azure Active Directory for client SSO.
* Migrated Monitoring (PRTG, Gray log) and Deployment Tools (TeamCity and Octopus) from AWS to Azure.
* Securing servers using Windows Defender Advanced Threat Protection and used Azure DDoS for securing virtual networks.
* Working with B2B integration using Sterling.
* Provisional support for implementing NAESB 1.6, GISB 1.4 protocol's for enterprise data management (EDM) Team.
* Managing multiple versions of pretty good privacy (PGP) key rings in accordance with multiple trading partner utilities.
* Contributed for documentation related to Application playbooks and client implementation/configuration guide.
* Used PowerShell scripts to day to day activities and tasks for automating.
* Automated file archival to Azure blob storage using PowerShell scripts.
* Manages User Access and security on Web and application servers.
* Worked on developing and implementing Test strategy, Master Test plan, Test Data Management, Test cases, Test Scenarios using TestNG and executing of Test Cases including validation against expected results.
* Designed and developed Test cases for business rules and rule flows using BRMS using Drools 5.2.3/6.0
* Participation in Sprint Planning and Sprint review meetings for Finalizing the Sprint Backlogs and verifying the sprint outputs respectively.
* Participated in Regular code reviews and design meetings.
* Participated in maintenance and production support.

**T- Mobile Oct 2017 – May 2020**

**Location: Atlanta, GA**

**Aws/DevOps Engineer**

**Responsibilities:**

* Hands-on experience configuring workflows, working on monitoring system performance, User administration setup, adding physical memory to the servers.
* Involved with setting up Jenkins, creating jobs for scheduling the ANT and Maven deployments for J2EE application and setting up NEXUS server (to access 3rd party dependencies) for centralized repository and scheduled jobs in Jenkins for MAVEN build.
* Using GIT to manage source code developed by various platform engineers.
* Extensive experience with Perforce. Experience with Subversion (SVN) /CVS, and GIT Software Configuration tools (Source Control).
* Developed CM and release plans to outline CM main functions, CM guidelines, Release procedures, Roles, Responsibilities, Deliverables, Schedules and milestones.
* Implementing build automation script using ANT and Maven for J2EE and MS Build in .Net, setting up Subversion (SVN) and GIT, Test Manager to manage build artifacts and SCM activities.
* Extensive experience working with AWS provided Solutions like EC2, ELB, VPC, Route 53, RDS, S3, IAM, and Cloud Watch.
* Experienced in Writing Chef Recipes to automate our build/deployment process and do an overall process improvement to any manual processes.
* Established Chef Best practices approaches to systems deployment with tools such as vagrant, berkshelf and test-kitchen and the treatment of each Chef cookbook as a unit of software deployment, independently version controlled.
* Worked on with Dockers container snapshots, attaching to a running container, removing images, managing directory structures and managing containers. Virtualized the images by using the Docker files.
* Worked on creation of custom Docker container images, tagging and pushing the images. worked on the customized docker networks.
* Working on the source code to generate builds and create procedures for the deployment on the servers for the release.
* Performed dispatcher role to distribute tasks assigned to the onshore team.
* Drove releases, automated release process.
* Supporting the Application team in making them analyze about the automation implementation and other related issues (if any).
* Coordinating with QA/DEV/Project/Delivery/Production support/Managers and Performance teams to consider concerns, issues and addressing those aspects to meet the delivery dates.
* Proposed and implemented several release processes to achieve consistent results and stabilities across environments.

**Symantec                                                       Oct 2016 to Sept 2017**

**Mountain View, CA**

**Systems Engineer/ Build Engineer**

**Responsibilities:**

* Responsible for architecting, implementing, and maintaining automation tools to reduce time and complexity of operations and development tasks
* Written chef cookbooks to provisioning and managing Linux servers.
* Automated infrastructure admin tasks with Puppet.
* Installed Jenkins on a Linux machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Integrated Subversion and Ant/Maven with Jenkins to implement the continuous integration process.
* Expertise in designing, configuring and implementing SCM standards and procedures using StarTeam, Subversion, CVS and IBM Rational Clear Case. Experienced in design and implementation of defect tracking system using Test Director, JIRA, Bugzilla and Rational Clear Quest.
* SVN/GIT with Dev/Test/Prod Branching Model for weekly releases.
* Responsible for the EBFs (Emergency Bug Fixes) to push them to different environments and monitor their status.
* Created Ant, Perl & UNIX scripts for build activities in QA, Staging and Production environments.
* Wrote bash scripts and PowerShell scripts for day-to-day administration and create PowerShell scripts to automate the deployment.
* Maintained and administered GIT source code tool. And Created Branches, Labels and performed Merges in Stash and GIT.
* Created the branches in Subversion to implement the parallel development process.
* Implemented Sparse Branching concept of Subversion to avoid the additional overhead of having complete branches.