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**Sai Kumar**

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**Professional Summary:**

* An adept professional boasting over 10+ Years of experience in **Systems Engineering, Cloud Engineering**, and **DevOps Engineering** across diverse platforms, including **Public, Private**, and **Hybrid Cloud** environments like **Azure, AWS, GCP** and **VMware**.
* Expertise in several software lifecycle models like **Agile, Waterfall**, software development life cycle (SDLC) with specific focus on the build and release of quality software.
* Experience in Building a highly scalable, highly available, public clo1ud infrastructure using Azure services like App services, **Azure Storage, Azure SQL database**, **Virtual machines, IIS, Azure Active Directory (AD)**, **Azure Resource Manager (ARM), Cosmos DB, Azure Functions, Azure service Fabric, Azure Monitor, Azure Service Bus, Azure Virtual Networks (VNets), Subnets,** security policiesand routing.
* Extensive experience in creating **CI/CD** pipeline using various tools such as **Ant, Maven, GIT, Hudson/Jenkins, sonar, Nexus, Azure DevOps, frog**.
* Experience in working on several Docker components like **Docker Engine, Hub, Machine, Docker compose** and **Docker Registry**, creating **Docker images** and managing multiple images primarily for middleware installations and domain configurations.
* Experience in implementing continuous deployment and environment provisioning using Ansible by installing packages on remote agentless nodes through **Ansible playbooks** with Ansible roles.
* Extensive expertise using **AWS** Computer and Developer tools like **EC2**, access management and Networking technologies like **IAM, VPC** and Monitoring resource consumption using cloud watch and integrating services such as **SQS** and **SES**, Storage solutions like **S3**, relational databases like PostgreSQL.
* Experience in creating **AWS** users and groups, assign permissions to allow or deny access to AWS resources through **IAM**.
* Expertise in Installation and configuration of Puppet includes **Puppet Master**, Agent Nodes, and an administration control workstation like **Puppet Console**.
* Extensive experience in integrating Chef Cookbooks into **Jenkins** jobs for CD framework, and worked with various custom resources, created roles & environments, and using chef handlers for different auto Kickoff Requirement Jobs.
* Strong understanding and experience leveraging **RESTful APIs** and managing **IAC**.
* Experienced in installation and configuration of **Apache Webserver**, **WebLogic, Tomcat, Nginx** and **JBOSS**.
* Extensive designing, implementing, maintaining, and troubleshooting VMware Products **vCenter. 5.5/6.0/6.5/6.7** **ESXI Host 5.0/5.5/6.0/6.5/6.7**, **VRealize Suite 6.X/7.x/8.x (VROPS, VRA, VRO),** **Log insight**.
* Experience in designing implementing, and managing hyperconverged infrastructure **VxFlex-R640, VxFlex-R740xd, PowerEdge R740xd Servers, Cisco UCS and HP**.
* Experience in Developing Workflows in **VRO** using Java Script to automate features & functionalities.
* Expertise in defining enterprise wide SCM strategy/ SCM plan and implementing Industry best practices in areas of Build Management, Continuous Integration, Deployment Automation, Source Code maintenance & Release Management, Server management, Software asset management.

**Certifications:**

* **Certified Administrator**
* **Certified AWS Solution Architect Associate**
* **Microsoft Azure DevOps Engineer**

**Technical Skills:**

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| --- | --- |
| **SCM Tool** | Jenkins, Git. |
| **Scripting** | UNIX Shell Scripting (Bourne, Korn, C and Bash). |
| **Build Tool** | Ant, Maven, Gradle, SBT, Activator. |
| **Application Servers** | Apache Tomcat 7. x. |
| **Web Servers** | Apache 2. x. |
| **Languages** | Java, Python. |
| **Database System** | Oracle 11g/10g, MongoDB, MS Access, Sybase, Greenplum |
| **Platforms** | AWS EC2, R3, RDS, Red hat Enterprise Linux 6/5, SNS, SQS. |
| **Networking& Protocols** | TCP/IP, HTTP, HTTPS, DNS, DHCP, CISCO ROUTERS. |
| **Operating Systems** | UNIX, LINUX, WINDOWS, CENTOS, UBUNTU. |

**PROFESSIONAL EXPERIENCE:**

**Client:** *Kenvue INC-Johnson&Johnson* **Skillman, NJ Nov 2022 - Current**

**Role: Cloud DevOps Engineer**

Kenvue Inc. is an American consumer health company. Formerly the Consumer Healthcare division of Johnson & Johnson. Kenvue is a science-backed company and deals with healthcare professionals and products around the world.

**Responsibilities:**

* Perform **Cloud migrations** and work with clients and development teams to own the **infrastructure components** of the projects.
* Design, implement and manage virtual networking within Azure and connect to on-premises environments, configure Express Route, virtual network, VPN Gateways, DNS, and Load Balancer.
* Worked on **Azure** site Recovery and **Azure Backup**- Deployed instances on **Azure environments** and in **Data centers** and migrating to **Azure** using **Azure** site Recovery and collecting data from all **Azure Resources** using **Log Analytics** and analyzed the data to resolve issues.
* Direct experience on **Azure VPN-Point** to site, **Virtual networks**, **Azure custom security, Endpoint security, firewall, Backup and restore Azure services**. Configured **Azure SQL Database and Data Warehouse (DW)** on virtual machines and **PaaS**.
* Design and implement migration strategies for traditional systems on **Azure** **(Lift and shift/Azure Migrate, other third-party tools)** worked on Azure suite: **Azure SQL Database, Azure Data Lake (ADLS), Azure Data Factory (ADF)V2, Azure SQL Data Warehouse, Azure Service Bus, Azure key Vault, Azure Analysis service (AAS), Azure Blod Storage, Azure Search, Azure App Service, Azure Data platform Services**.
* Design, implementation and Troubleshooting **VMWare ESXI 6.5/6.0/5.5 Hosts, VMWare vSphere, vCenter, VRealize Suite, VRealize Operations (VRops). VMWARE VSAN, Virtual Volumes, AWS Cloud**.
* Expertise in installing & administration of **Cisco UCS chassis, HP Blade servers, creating profiles, templates, and organization, installing ESXI.**
* Expertise on windows file system **CIFS/SMB shares, NTFS**, creating, Setting permission, security setup.
* Experience developing and delivering training, including **NSX, vSphere/vcloud, and Database**.
* Experience with **Altiris** Deployment server and plate spin migration tools (**P2P, P2V, V2V, V2P**).
* Worked on Confidential Cloud Deployment Manager **(GCP)** and **could shell**.
* Work on several consolidation, virtualization, and cloud projects confidential involving **VMWare** products, including **NSX, vCloud** Director, **vCAC, vCloud Orchestrator, vSphere, vCenter, vCOPS, vCNS, AppsSpeed, SRM, and vCenter** Configuration Manager.
* Automated Cloud deployments using **Chef and AWS cloud** formation templates.
* Experience in using **AmazonS3, EC2, PVC, Route53, SWF, Security Architecture** With **AWS.**
* Built Continuous Integration environment **Jenkins** and Continuous delivery environment.
* Setup and build **AWS** infrastructure various resources, **VPC EC2, S3, IAM, EBS**, Security Group, Auto Scaling, and **RDS** in Cloud formation **JSON templates**.
* Leveraged **AWS cloud** Services such as **EC2**, auto-scaling and **VPC** to build secure, highly scalable, and flexible systems that managed expected and unexpected load bursts.
* Implemented a Continuous Integration and Continuous delivery **(CI/CD) pipeline with Jenkins, Git-hub, and container service**.
* Implementing a continuous Delivery framework using **TeamCity, puppet, maven & Nexus in Linux environment.**
* Integrated **Maven, SonarQube, Junit with TeamCity**.
* Implement **Docker** based continues integration and deployment framework. Deploying and maintaining Micro services using **Docker**.
* Configured **SNS for S3 and EC2** instances for notifications.
* Configured auto scaling in customized **VPC**, based on elastic load balancer **(ELB)** traffic and using ELB health check in order to trigger auto scaling actions.

**ENVIRONMENT:**

**Git, Bamboo, Jenkins, GitHub, Maven, AWS Console, Splunk, Pivotal Cloud Foundry, Artifactory,**

**AWS (EC2, S3, RDS, EBS), Firewall, Gem fire, SiteMinder, Docker, CloudFormation, Lambda, SNS, IAM, Confluence, CloudWatch.**

**Client:** *SSM Health* **St.Louis, Missouri March 2021 – July 2022**

**Role: Cloud DevOps Engineer**

SSM Health is a Catholic, not-for-profit health system serving the comprehensive health needs of communities across the Midwest through a robust and fully integrated health care delivery system.

**Responsibilities:**

* Knowledge in Amazon Wed services **(AWS)** environment and good knowledge of AWS services like **Elastic compute cloud (EC2), Elastic Load-balancers, S3, Elastic Beanstalk,** Familiarity with secure programming techniques **(OWASP)** and use of a code scanning tool **(Checkmarx),**
* Used **AWS Beanstalk** for deploying and scaling Web applications and services developed with **Java, PHP, NodeJS, Python and Docker** on familiar servers such as **Apache.**
* Created **snapshots** and **Amazon Machine Images (AMI)** of the instance for back up and created **Identity Access Management (IAM)** policies for delegated administration within **AWS**.
* Exposure with Vulnerability scanning tools such as **Checkmarx, SonarQube,** Coverity Advanced experience with Vulnerability assessment and reporting including comprehensive understanding of Vulnerability Management methodologies and procedures and application and infrastructure Vulnerability scanning solutions.
* Understand Checkmarx Admin roles special and functionality, potential risks.
* Involved in integrating **CXSAST** into several aspects of your development cycle, such as with software-built automation tools **(Apache Ant and Maven)**, software development version control systems **(GIT)**, repository hosting services **(GitHub),** continuous integration platforms **(Jenkins),** Continuous code quality inspection platforms **(SonarQube).**
* Validate solutions provided by Checkmarx for outstanding, ongoing issues logged in **SSD JIRA SQL Database**.
* Involved in **Checkmarx (CXSAST), SonarQube,** Coverity is a unique source code analysis solution that identifying, tracking, and repairing technical and logical flaws in the source code, such as security Vulnerabilities, compliance issues, and business logic problems.
* Provide ongoing support for **Jira/GIT** users. Provide user training on **Jira/confluence** and on-board new teams.
* Created **JIRA projects, templates, workflows, screens, fields,** and other administrative activities.
* Customized both **JIRA** and Confluence to integrate into the preexisting systems with an eye towards making the programs extensions of their systems.
* Responsible for creating and maintaining architecture for Restful **API using Spring Boot**.
* Experience of working with **Elastic path Catalog module & Elastic Catalog Module** like modification of **product.xml, productAssociation.xml.**
* Maintained Beats using **Elasticsearch** Centralized Beats Management Console.
* Indexing and sharding of Data in Elastic search for effective searching and optimal performance of visualizations.
* Monitoring and analysis of **Kubernetes** pods logs using Elasticsearch by deploying File beat as a Daemon Set
* Managed & on boarded. net applications, configured, fixed bugs, resolved compile error, coding, testing, and implemented into TFS for automation using **VSTS, GIT, Bit Bucket, and Cloud bees.**
* Worked on **Amazon AWS EC2 cloud** services for build, configuring and troubleshooting on various Amazon images like **Amazon Linux AMI, AIX, Red Hat 4.x, 5.x, Ubuntu 12.x, 13.x.**
* Converting existing AWS infrastructure to server less architecture **(AWS Lambda, kinesis)** deployed via Terraform or **AWS Cloud** formation. Created the **AWS VPC** network for the Installed Instances and Configured the security Groups and Elastic Ips accordingly. Installing the Load Balancers and VPC with public and private subnets.
* Version control through **Git Hub**, confluence for documentation and Automated Gerrit code review took to drive changes through Ansible. Experience in **automations, Config Files, Commands, Software rollout, Packages. Created automated stackdriver monitoring alerts using Chef.**
* Used **Ansible and Ansible Tower** as Configuration management tool to automate repetitive task using playbooks to manage configurations of **AWS** nodes.
* Experience in creating inventory, job templates and scheduling jobs using **Ansible** Tower.
* Virtualized the servers using the **Docker for the test environments and dev-environments needs. And Configuration automation using Docker** containers.
* Experience in creating **Docker** Containers leveraging existing **Linux Containers and AIMs** in addition to creating Docker containers. Hands on experience in using tools like Docker compose, **Kubernetes,** etc. for orchestrating, linking, and deploying the services related to the containers.
* Used **Kubernetes** during debugging. Leading up to production when multiple application build must be tested for stability. Worked with various scripting languages like **Bash, Perl, Shell, Ruby, PHP, and Python.**
* Leverage open technologies such as **Docker, Swarm, Bash, Java, Script, Python, Git, Jenkins, Linux, HAProxy, AWS Cloud, ELK, MongoDB, and Plenty of others.**
* Used Test driven approach for developing the application and implemented the unit tests using Python unit test framework.
* Worked on Logging and **APM tools AppDynamics, Zabbix, Splunk, ELK (Elasticsearch, Logstash, Kibana).** Worked on AppDynamics controller administrative activities like user management, application management, monitoring controller performance etc.
* Experience on centralized logging (Data) and monitoring tools such as **Elasticsearch, Logstash, and Kibana (ELK), Splunk dash boards for search and reporting and managing the dashboard access**.

**Environment**: **Amazon wed services, IAM, S3, Cloud watch, TFS (Team Foundation Server), VSTS, Version One, Nix, ANT, maven, SonarQube Tortoise SVN, GitHub, Chef, Ansible, Docker, Java, MongoDB, Spring Boot 1.2.x Agile, Apache HTTPD, Apache Tomcat, J Boss, Bash, Shell, Perl, Python, PHP, Ruby.**

**Client:** *LEXIS NEXIS* **Raleigh, NC Jan 2020 – Feb 2021**

**Role: Cloud DevOps Engineer**

Our company's goal is to promote the rule of law globally, as this is essential to fostering social cohesion and prosperity. With 10,500 coworkers, we are a data and analytics organization that serves clients in more than 150 nations. Our teams are revolutionizing our customers' work processes by fusing unmatched legal and business knowledge with technology and analytics.

**Responsibilities:**

* Requirement gathering and analyzing, developing the code based on requirement.
* Configured **AWS** Identity and Access Management (IAM) to manage users and groups, assign policies and roles to allow or deny access to **AWS** Services
* Setup and managed backup and recovery using **snapshot** and used **S3** to store the **snapshots**.
* Configured and managed **cloud** infrastructures using amazon web services like **S3, RDS, cloud watch, lambda**.
* Provide durable and available data by using **S3 Data store**.
* Configured cloud watch alerts.
* Development of workflows triggered by events from other systems.
* Implemented continuous integration using **Jenkins**.
* Used **Git** as a version control for configurations.
* Performed S3 buckets creation, policies and on **IAM** role-based policies.
* Responsible for using **AWS** console and **CLI** for deploying and operating **AWS** services.
* Creating and maintaining **S3 buckets** with various, control restricted access to buckets with permissions, creating lifecycle rules to move buckets to Glacier for infrequently accessed data.
* Managing users and groups and assign permission **IAM** to allow and **Deny AWS** resources by attaching.
* Managing **LDAP** users accounts. Installing Amazon Web services **EC2 Instance with Tomcat, PHP, MYSQL, and Continuous integration with Jenkins**.
* Expertise in the **Jenkins plugin** management areas and implemented several **CI/CD plugins like AWS EC2, build pipeline, Docker, git, and pipeline plugins.**
* Design and implement end-to-end Continuous Integration and Continuous Delivery **(CI/CD) pipelines using both tools like Jenkins, GitHub, SonarQube, Prometheus, Grafana, Jira, Docker, Ansible and Kubernetes.**
* Experienced in deploying and managing production ready **Kubernetes clusters**.
* Built, configured, and administered both self-managed and managed **Kubernetes Clusters** with **KOPs, Kubeadm, Helm** using different **Kubernetes objects**. and configuration of infrastructure on **AWS.**

**Environment:** **RHEL, Windows, Agile, Scrum, MS Azure, Google Cloud Platform (GCP), Azure IaaS - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, VPN, Load Balancing, Application Gateways, Auto-Scaling, Traffic Manager, Ansible, .Net, Python, Ansible Playbooks, Docker, Kubernetes, Git, Azure DevOps, Maven, Jira.**

**Client:** *Nationwide* **Colombus, OHIO Aug 2017 – Nov 2019**

**Role: Cloud Devops Engineer**

Nationwide is one of the largest insurance and financial services companies in the world, focusing on domestic property and casualty insurance, life insurance and retirement savings, asset management, and strategic investments.

**Responsibilities:**

* Expertise in maintaining **AWS IAM** Role/Policy based access control of services for users and groups.
* Good hand on experience in building customized policies to restrict access.
* Responsible for maintaining **AWS** security auditing and best practices.
* Responsible for building **AWS** Lambda functions using **Python Boto3** for Access keys rotation.
* Good experience working with **AWS** Multi Factor Authentication and setting up password policies for all users in **AWS** accounts and locking unused accounts.
* Configured **SNS** notifications to secure root account credentials.
* Responsible for cross account migration of **EC2 snapshots** and **AWS Redshift cluster snapshots**.
* Responsible for copying **Redshift cluster** and **EC2 snapshots** to different regions.
* Good knowledge of working with highly available active directory in the **AWS Cloud**.
* Worked with **cloud** watch events to trigger **lambda** function and configured **SNS** notifications.
* Good hands-on experience working with maintaining **AWS IAM** best practices.
* Worked with **Azure Active Directory and IAM**.
* Worked on **Azure AD, Azure AD Connect,** and **Federated SSO** to control access to various cloud services and components.
* Worked with **ADFS, Microsoft MFA and AWS MFA.**
* Provided cost estimates and monthly usage reports to clients on usage of particular service and on services usage on regions and cresting cost model for licensing.
* Good hands-on experience working with **Azure RBAC (Role Based Access policy)**.
* Worked on **AWS S3, Glacier and Glacier vault** for archival file storage.
* Worked on **Azure Blob storage** and have good knowledge on Queue storage and disk storage.
* Worked with **AWS** Organizations to centrally manage policies across multiple **AWS** accounts and control access to **AWS** services.
* Worked with managing user identities and access to protect against advanced threats across devices, data, apps, and infrastructure.
* Build Terraforms scripts to build completed environments like **AWS VPC,** Security Groups, and subnets.
* Worked with creating crawlers in **AWS Glue** and configuring **AWS** Athena with Tableau to access objects in S3 and create tables.
* Expertise in configuring **ELB (Elastic Load Balancer)** and Auto Scaling once the server reaches maximum CPU utilization and creating **AMI (Amazon Machine Image)**.
* Worked with multiple end clients on troubleshooting network issues and configuring inbound and outbound security groups.
* Good hands-on experience working with S3 tools like **cloudberry, s3 Browser and Fast Glacier**.
* Experience working with objects moving to **Glacier** and retrieval from Glacier.
* Good hand -on experience working with **AWS** billing and providing cost estimates for environments to end clients.
* Good knowledge on **AWS Code Commit, Code Build, Code Deploy, and Cloud9**.

**Environment**: **DevOps, Java/J2EE, jQuery, Tomcat, Apache, Oracle 11g, Jenkins, Python, Ruby Chef, JIRA, Confluence, Remedy, Maven, Artifactory, GITHUB, Ubuntu, CentOS, Linux, AWS ELB, AWS SQS, AWS S3, AWS Cloud Formation Templates, AWS RDS, AWS Cloud Watch, Google Cloud Platform (GCP), AZURE, Ruby, PowerShell, Chef, Docker.**

**Client:** *Netcracker Technology***, INDIA April 2014 – June 2017**

**Role: VMware Engineer**

Netcracker is an expert in service providers to transform their business to thrive in a digital economy. Also wholly owned subsidiary of NEC Corporation, builds software solutions and professional services enables large-scale digital transformations, unlocking the opportunities of the cloud, virtualization and the changing mobile ecosystem.

**Responsibilities:**

* Build, configure, maintain, and troubleshoot **VMware vSphere** environment, **vCenter 6.0/6.5/6.7 ESXi5.5/6.0/6.5/6.7.**
* Work with business and infrastructure teams to develop a service catalog and use **vRealized** Suite to Automated infrastructure functionalities in **virtual and cloud infrastructure**.
* Build out the new **VMware Clusters** using **VMware Validated Design (VVD)** for Data Lake Project.
* Build out and support the **DELL VxFlex-R640, VxFlex-R740xd** Hyper Converged infrastructure and **PowerEdge** **R740xd** servers.
* worked on setting up **Nvidia licensing server (NVIDA Tesla P100 GPU)** setup to license headless **vGPUs, VMs** running TensorFlow ML application.
* Worked on upgrading **vCentere** and **ESXi Host** from **6.0 to 6.5/6.7**.
* Maintained security vulnerabilities by patching **ESXi**, **vCenter** and **VMware** Appliances to latest patch level.
* Patching **ESXi** **Host** Using Auto Deploy Rule and **VMware** update manager.
* Creating and Troubleshooting Host Profiles for **ESXi** **Host** and assigning to **ESXi** hosts.
* Troubleshoot any types of issues **ESXi Host**, **vCenter** Server and Provide **RCa** to issues.
* Wrote **JAVA, Python and PowerShell Scripts** to automate manual tasks in **VMware** Environment.
* Design New Solution into enterprise infrastructures to improve the process executions through Automation Activities.
* Experience with **Installing, Configuring, Maintaining, and upgrading** **vRealize** Automation in **VMware** environment to provision multiple servers in single point in any Endpoint.
* Experience creating custom workflow, customizing schema in **VRO** to automate task in **VMware** environment.
* Developed customized dashboards, views, and reports in **vROPS** to view end to end **environment-storage, network, and computer**.
* Experience in building **xaaS** blueprints using custom firms to deploy different types of servers in private **cloud, HCI** and **vCenter**.
* Experience in **Building, Configuring and Maintaining** **vRA 7.6** and **vRO 7.6** infrastructure using **VMware** **Life Cycle Manager**.
* Worked on upgrading **VRA** environment from 7.4to7.6 with designed process.
* Building PowerShell Scripts to automate the functionalities in the Enterprise infrastructure.

**Environment**: **VMWare VSphere, VMWare VCentere, VMWare ESXI, VRealized, VMWare Clusters, VMWare validated Design (VVD), Dell VxFlex-R640, VxFlex-R740xd, DELL PowerEdge R740xd Servers, ESXI Host, vROPS, RCA, VRO, VR**