**Mani Kumar**

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**Professional Summary:**

* Around **8 years** of experience in planning, designing, Implementation in areas of **implementing DevOps strategies, CI/CD pipeline, troubleshooting and monitoring.**
* Implemented on AWS platform and its dimensions of scalability including **EC2**, **S3**, **EBS**, **VPC**, **ELB**, **AMI**, **SNS**, **RDS**, **IAM**, **Route 53**, **Auto scaling.** Experience in Server infrastructure development on **AWS Cloud.**
* Proficient level of experience on DevOps tools like **Chef**, **Puppet**, **Ansible**, **Docker**, **Subversion**, **GIT**, **Hudson**, **Jenkins**, **Ant**, **Maven**. Expertise in cloud automation using AWS **cloud FormationTemplates**, **Chef**, **Puppet**.
* Ensured data integrity and data security on **AWS** technology by implementing AWS best practices.
* Worked on operational support activities to ensure availability of customer websites hosted on AWS cloud infrastructure using Virtual private cloud **(VPC)** and public cloud.
* Creating the automated **build** and **deployment** process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* SIEM tuning & optimization, log analysis, and log correlation (using **Splunk**).
* Created **ChefCookbooks** to deploy new software and plugins as well as manage deployments to the production Jenkins server.
* Linux/Unix system administrator on **Red hat** EL, 5.x, 6.x, **CentOS** 4.x, 5.x and **VMware** environment.
* Involved in migrating physical Linux/Windows servers to cloud (AWS) and testing.
* Maintaining, troubleshooting **Red Hat Linux** and **Windows** platforms including subsystems of Linux like Kernels.
* Proficient with container systems like Docker and container orchestration like EC2 Container Service,**Kubernetes.**
* Updating kernel & security patches in Amazon Linux environment, handling out of memory issues in Linux kernels during rebalance in Kafka cluster.
* Expertise in Server infrastructure development on **AWS Cloud** and **Microsoft Azure**.
* Updated the **Azure** instance count for production services of Redbox.
* Deploying system stacks for different environments like **Dev**, **UAT**, **Prod** in both on premise and cloud infrastructure. Extensive experience in **UNIX** performance tuning and Capacity Planning.
* Planned and executed the migration from Bugzilla-based bug-tracking and Hudson CI tool into the Atlassian-based suite (**JIRA**, Confluence, and **Bamboo**).
* Installed and administer Atlassian tool set including **JIRA**, **Confluence**, Crucible, and **Bamboo**.
* Installed **Bamboo** and perform troubleshooting during installation to implement the **CI** process for the Java application builds.
* Creating and configuring virtual development environments with **Chef** and Virtual Box.
* Worked on Administration, maintenance and support of Red Hat Enterprise Linux (**RHEL**) servers.
* Configured Continuous Integration by setting up Build and test automation Jobs in **Bamboo**/**Jenkins**
* Working on **Jenkins** server Plug-ins and credential to work with GIT Hub.
* Creation of branches in CVS and Subversion for parallel development process.
* Used SVN for branching, tagging, and merging.
* Worked with the Architects on **SDLC** process being the owner of post development environments.
* Coordinating the resources by working closely with Project Manager's for the release and Project Manager for all the Operational Projects.
* Carried out deployments and builds on various environments using Puppet continuous integration tool.
* Familiar with **OpenStack** concepts of user facing availability zones and administrator facing host aggregates.
* Automating tasks with **PowerShell**, **PowerdCLI**. Daily tasks include assisting other departments in project completion.
* **Scripting in PowerShell**to deliver applications on to targeted servers and done load balancing on the servers.
* DevOps Practice for Micro Services using **Kubernetes** as **Orchestrator**.
* Kubernetes 1.9.0 is used to orchestrate the deployment, scaling, management of Docker Containers.
* Development of automation of **Kubernetes clusters** with **Ansible**, writing **playbooks**.
* Implemented a production ready, load balanced, highly available, fault tolerant **Kubernetes** infrastructure.
* Used AWS as to maintain model and manage the entire application.
* Experienced in Cloud automation using **AWS CloudFormation templates**.
* Extending On-Premises AD to AWS Cloud by deploying VPN **connection** and promoting domain controllers.
* Experience with migration to **Amazon Web Services from Datacenter**.
* Involved in configuring and integrating the servers with different environments to automatically provisioning and cresting new machines using **CM/ Provisioning tools like Chef and Ansible**.
* Hands on experience in installing and administrating **CI/CD tools like Jenkins**.
* Managed and monitored the server and network infrastructure using **Nagios, New Relic**.

**TECHNICAL SKILLS**

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| --- | --- |
| **AWS Services** | EC2, ELB, VPC, RDS, IAM, CloudFormation, Cloud Foundry, S3, CloudWatch, Cloud trial, SNS, SQS, SWF, EBS, Amazon Direct Connect |
| **Web Technologies** | **HTML, XML, SOAP, WSDL, UDDI, XSD, XSL, XPATH** |
| **Build/Release Tools** | Jenkins, CHEF, Puppet, ANT, Hudson, Database, Ansible, Open Stack |
| **SCM Tools** | **GIT, SVN, ClearCase** |
| **Operating Systems** | UNIX, Linux - RedHat/Centos/Ubuntu, HP-UX, Solaris, Microsoft Windows NT |
| **Database** | **MySQL, Oracle 9i/10g, SQL Server, SQL Mongo DB** |
| **Web Servers** | Oracle Web logic server11g/10g /9, Apache,Tomcat, , WebSphere |
| **Scripting Languages** | UNIX Shell Scripting, Perl Scripting, PowerShell, Ruby Scripts, Python Scripting |
| **Bug Tracking Tools** | JIRA |
| **Monitoring tools** | Splunk, Nagios |
| **Container** | Docker, Kubernetes |

**Professional Experience:**

**Client: Nationwide, Columbus, Ohio. July 16 – till date.**

**Role: Sr. Devops Engineer.**

**Responsibilities:**

**Description:** Nationwide Insurance is an easy-to-use business system designed to provide Auto, Home, and Personal Excess Liability insurance to its customers through affiliated agents. Nationwide Insurance is a comprehensive, solution driven product, designed to cover all aspects of policy management, giving Insurers and agents’ one-stop control over every aspect of how they interact with their customers. It supports new product definition and deployment, real-time rating, quoting, policy purchase and administration and reinsurance with fully integrated financials and billing.

**Responsibilities:**

* Involved in End-End implementation and Automation using software configuration management tools(**Puppet**)
* Performed testing and validation for code deployment automation in **UAT** test environment
* Created continuous integration system using Ant, Jenkins, Puppet full automation, Python Continuous Integration, faster and flawless deployments.
* Worked on Version Control Systems like Rational Clear Case, Unified Configuration Management
* Worked with Atlas Sian tools like **Bamboo**&**Jira**.
* Used Build Forge and **Jenkins** for enterprise scale infrastructure configuration and application deployments.
* Worked with DevOps, Perforce, Git and Jenkins.
* Used **ANT, Puppet/ Chef Scripts** with Ivy to build the application and deploy.
* Deployed Dynamic content to Web Sphere Application server and DevOps Team
* Experience in debugging the code deployment errors with the help of development team
* Modeled the structure for multi-tiered applications orchestrate the processes to deploy each tier
* Created Continuous Build Process using **Jenkins** as Continuous integration tool.
* Drove releases, automated release process.
* Used **Kubernetes** to orchestrate the deployment, scaling and management of Docker Containers
* Managed continuous delivery in Micro services and **Micro Service Architectures**.
* Configured **Elastic Load Balancers** (ELB) with EC2 Auto Scaling groups.
* Created **triggers**, **alarms** and notifications for EC2 hosts using **CloudWatch**.
* Implemented AWS solutions using **S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances**.
* Worked on **CloudFormation** to write the templates on AWS.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, Chef, and custom Ruby/Bash scripts.
* Established connectivity to AWS resources in another VPC in another region using AWS **VPC peering** and **strongswan/IPSEC tunnel**. Experience involving configuring **S3 versioning** and lifecycle policies to and backup files.
* Created Automation to create infrastructure for**kafka** clusters different instances as per components in cluster using Terraform for creating multiple EC2 instances & attaching ephemeral or EBS volumes as per instance type in different availability zones & multiple regions in AWS.
* Processed large chunks of unstructured data using **Elastic Map Reduce (EMR)** and worked extensively with the EMR cluster. Automated Regular AWS tasks like snapshots creation using **python** scripts.
* Configured **Elastic IP** and **Elastic storage** deployed in multiple availability zones for high availability. Supported the infrastructure with highly available EC2 instances.
* Developed unit and functional tests in Python and Java
* Work with Dockers for convenient environment setup the test environments
* Used configuration management tools Chef, Puppet, and CF Engine
* Proposed branching strategy suitable for current application in Subversion help of Python

**Environment**: Solaris, Linux, AWS, Eclipse, C++, Java, Perl, DevOps, Clear Case 6.0, Clear Quest 2003, Bash, Korn shell, Kafka, NT Command Shell, Python.

**Client: Home Care Home Base, DALLAS, TX NOV’2014 – JUNE’2016**

**Role: Jr Lead/ Sr. Devops Engineer**

**Description:** Homecare Homebase offer practical, real-world solutions and field clinicians on the front lines of home health and hospice.

**Responsibilities:**

* Experience in Cloud computing window azure.
* Identifying the challenges for hosting **application** s in **Windows** Azure **(PAAS)** and suggesting the possible changes required in applications to use Azure capabilities.
* Development of POC including **Azure as Paas.**
* Updated the **Azure** instance count for production services of Redbox.
* Responsible for Deployment Automation using multiple tools **Chef**, **Jenkins**, **GIT**, **Maven** Scripts.
* Connected continuous integration system with **GIT** version control repository and continually build as the check-in's come from the developer. Managing the database **DDL, DML** scripts in **SVN** and **GIT.**
* Responsible for design and maintenance of the **Subversion/GIT** Repositories, views, and the access control strategies. Createdpost commitand pre-push hooksusing **Python** in **SVN** and **GIT repos**
* Designed and implemented Subversion and **GIT** metadata including elements, labels, attributes, triggers and hyperlinks. Setting up the **SVN** and **GIT repos** for **Jenkins build jobs.**
* Developing **maven** and **Shell scripts** to automatically compile, package, deploy and test J2EE applications to a variety of Web Logic platforms. Worked with development team to migrate **Ant scripts** to **Maven.**
* Educated team about **continuous integration** and automated testing practices and supported them throughout development. Installed **MAVEN** and configured **pom.xml** in conventional projects for continuous integration.
* Configured **Jenkins** to implement nightly builds on daily basis and generated change log that includes changes happened from last 24 hours. Experience in setting up **the End User Security** in **Jenkins** and **Hudson**.
* Created an automated application-testing framework for the CD pipeline leveraging Robot Framework integrated with **Jenkins & Selenium** that increased testing cycles.
* Provisioning Jenkins environment for continuous integration by easing build and testing tasks for developers.
* Written **Chef Cookbooks** and recipes in **Ruby** to Provision several pre-prod environments consisting of Cassandra DB installations, WebLogic domain creations and several proprietary middleware installations.
* Deployed a centralized log management system and integrated into **Chef** to be used by developers
* Deployed applications using **Docker** containers in the cloud with **PaaS**.
* Responsible for **installation & configuration** of Jenkins to support various Java build and Jenkins plugins to automate continuous builds and publishing **Docker** **images** to the **Nexus** repository.

**Environment:** Red Hat Linux 5/6, KVM, AWS (Amazon web Services), Azure, **OpenStack**, Chef

**Client: C3i Technologies, Hyderabad, India JAN 2013 – SEP 2014**

**Role: Release Engineer/ Linux Admin**

**Responsibilities:**

* Installation and administration of **RHEL** 4.0/5.0 and **SUSE** 10.x.
* Configured **kickstart** server and updating/applying **patches** to the **servers** using Red Hat **Satelliteserver**.
* Remote system administration using tools like **SSH**, **Telnet**, and **Rlogin**.
* **Planning** and implementing system upgrades including hardware, operating system and periodical **patch** upgrades
* Managed and administrated of all **UNIX** servers, includes Linux operating systems by applying relative patches and packages at regular maintenance periods using **Red Hat Satellite** server, **YUM**, **RPM** tools.
* Worked in integrating TFS with Visual Studio **VSTS** 2013 & 2015.
* Planned and performed the upgrades to **Linux** (RHEL 5x, 6x, SUSE 10, 11, CENTOS 5, 6) operating systems and hardware maintenance like changing memory modules, replacing disk drives.
* **Installation**, **configuration** and **administration** of **VMware**, Solaris Zones, **Containers** and LDoms.
* Automation of jobs through **crontab** and **AutoSys**.
* Installing and setting up **Linux** Systems.
* Creating users, groups and setting file permissions to different groups and users.
* Monitoring servers using **Nagios** and troubleshooting the issues
* Upgrading the repositories and OS patches.
* Installation of **packages**, patch management, volume management on **SUSE** servers using **YaST**.
* Applied appropriate support packages/patches to maintain system integrity.
* Performed capacity analysis, monitored and controlled disk space usage on systems.
* Provided **CM** and **Build** support for more than 3 different applications, built and deployed to the production and lower environment.
* Defined and Implemented **CM** and **ReleaseManagement** Processes, Policies and Procedures.
* Implemented, maintained and supported reliable, timely and reproducible builds for project teams.
* Used **Mavendependencymanagement** system to deploy snapshot and release **artifacts** to Nexus to share **artifacts** across projects.

**Environment:** Ant, **Jenkins**, Linux, Solaris, Python, Shell Scripting, WebSphere, Oracle

**Client: GENESIS TECHNOLOGIES, VIZAG, INDIA MAR 2011 – DEC’ 2012**

**Role: Linux Administrator**

**Responsibilities:**

* Installation and administration of **RHEL** 4.0/5.0 and SUSE 10.x.
* Set up and configuring of Linux (**Red Hat& SUSE**) and Solaris servers/workstations for clients.
* Configuring the **NFS** servers, setting up servers in network environment and configuring **FTP/NTP/NIS Servers**, clients for various departments and clients.
* Experience working with high availability, high performance, multi-data center systems and hybrid cloud environments.
* Installing and setting up **Linux** Systems.
* Creating users, groups and setting file permissions to different groups and users.
* Handling the scheduling tasks (**cronjobs** and **taskscheduler**) for the scripts for various purposes.
* Troubleshoot complex issues ranging from system resources to application stack traces.
* Daily execution of build ops in an automated and continuous process.
* Involved in support databases and performed **MS SQL** upgrades running on **Windowsservers**.
* **Compiling** code to move into test environments via automated processes.
* Installation, configuration and administration of Linux (**Red Hat/SUSE**, **Centos**).
* Configuring network services such as **DNS/NFS/NIS/NTP** for **UNIX**/**Linux** Servers.
* Improve speed, efficiency and scalability of the continuous integration environment.
* Extensive knowledge of **Linux/Windows** based systems including hardware, software and applications.
* Creating a change requests, work orders and problem tickets using **BMC Remedy** tool and getting approvals from process owners.
* Experience in development with PowerShell or other scripting languages.
* **On-call support for 24/7** for troubleshooting **production** issues.
* **Project Management** for various **UNIX/Linux/Windows** system integration projects.

**Environment:** Linux (Red Hat Enterprise, Solaris Cent OS), **Windows 2000/NT**, HP, IBM, Oracle 8, SSH Gate, **Cisco** routers/switches, NIS, NFS, Perl.