**Naveen Kumar**

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**PROFESSIONAL SUMMARY:**

* Professional experience of 13+ years in IT comprising of Designing, Development, Integration of DevOps tools Stack, Cloud Infrastructure Automation, Infrastructure Provisioning and Configuration Management, Continuous Integration/Deployment Implementation, System Administration and Cloud Migration
* Azure certified cloud engineer with 6 + years of experience in cloud infrastructure management with knowledge on AKS, VPN, Blob, S3, DNS. Route53, ALB, ELB.
* 4+ years of experience as a DevOps/ Agile operation, build engineering and release management process, building and deploying applications by adopting DevOps practices such as Continuous development, Continuous Integration (CI) and Continuous Deployment (CD)in runtime with various tools like Git, Maven, VSTS, Jenkins, Ansible, Chef, Docker, Kubernetes and managing cloud services with Azure &AWS.
* Expertise in Architecting and Implementing Azure Service Offering, such as Azure cloud services, Azure storage, IIS, Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Storage, Azure, Blob Storage, Azure VMs, SQL Database, Azure Functions, Azure Service Fabric, Azure Monitor, and Azure Service Bus.
* Hands on experience on Backup and restore Azure services and in Design and configure Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing. Azure cloud services, Blob storage, Active directory, Azure Service Bus, Cosmos DB.
* Expertise in Azure Scalability and Azure Availability - Build VMs availability sets using the Azure portal to provide resiliency for IaaS based solution and Virtual Machine Scale Sets (VMSS) using Azure Resource Manager (ARM) to manage network traffic.
* Experience in migrating on-premises applications to Azure and configured VNETs and subnets as per the project requirement also performed PowerShell scripting to do Imaging, and Deployments in Azure.
* Knowledge of Azure Site Recovery and Azure Backup Installed and Configured the Azure Backup agent and virtual machine backup, Enabled Azure Virtual machine backup from the Vault and configured the Azure Site Recovery (ASR).
* Implemented a CI/CD pipeline using Azure DevOps (VSTS, TFS) in both cloud and on-premises with GIT, MS Build, Docker, Maven along with Jenkins plugins.
* Experience in writing Infrastructure as a code(IaC) in Terraform, Azure resource management, AWS Cloud formation. Created reusable Terraform modules in both Azure and AWS cloud environments.
* Experienced in AWS Cloud IaaS platform with features EC2, VPC, ELB, Auto-Scaling, Security Groups, Route53, IAM, EBS, AMI, RDS, S3, SNS, SQS, CloudFormation, and CloudFront.
* Managed IAM policies for organizations in AWS to define groups, create users, assign roles and define rules for role-based access to AWS resources and created S3 buckets and also managing policies for S3 buckets.
* Launched Amazon EC2 Cloud Instances using AWS services and configured the launched instances with the required specifications also defined the Security Groups which act as virtual firewalls that control the allowed traffic to reach the EC2 Instances and managed the Elastic load balancer, Auto Scaling, setting the security groups to design a fault tolerant and high available system.
* Experienced in configuring Virtual Private Cloud and managed network allocation in VPC to create new public networks.
* Worked with Terraform key features such as infrastructure as a code, execution plans, resource graphs,
* change automation and used auto scaling launch configuration templates for launching AWS EC2 instances.
* Implemented a continuous delivery pipeline with Docker, Jenkins and GitHub. Whenever a new GitHub branch get started, Jenkins our continuous integration server, automatically attempts to build a new Docker container from it.
* Able to architect and implement transition to Docker and develop distributed cloud system using Kubernetes
* Used Chef to configure and manage infrastructure and written Chef Recipes to automate our build/deployment process and do an overall process improvement for better environment management.
* Worked with Ansible Centralized Server (Tower) and created the playbooks to support various middleware application servers and involved in configuring the Ansible tower as a configuration management tool to automate repetitive tasks.
* Good Understanding & Knowledge on Cloud computing architecture, technical design and implementations including Infrastructure as a Service (IaaS), Platform as a Service (PaaS)
* Migrate to Azure SQL Database or provision a new SQL database.
* Involved in designing the Azure data warehouse
* Implemented Data and Pipeline integration using ADF and ETL scripts.
* Created and altered all the Azure SQL tables. Written the stored procedures and functions to perform tasks.
* Analyzed the code in case of any errors. Modified the scripts and tested the functionality of the piece of code.
* Created and integrated the pipeline with general activities like look up, set variable, stored procedure and Iteration & condition activities like for each loop, If Condition etc.,
* Backup and restore Azure SQL Databases.
* Implement high availability and disaster recovery, Monitor and optimize the performance of your cloud database.
* Using and implementing Information Technology Infrastructure Library (ITIL) processes such as Incident Management, Service Request Management, Change Management, Release Management, Problem Management, and Knowledge Management in the project.
* Strong experience in performance tuning.
* Competency in monitoring/ optimizing the performance of database and planning/ maintaining MS SQL Server environment.
* Worked with multiple vendors on Vendor specific application configuration.
* Expert in utilizing various types of table Constraints to enforce the data integrity and utilizing various types of Indexes for better query performance.
* Individuel Contributor and good team Player, strong interpersonnel and Communication skills combined with self motivation, initiative and ability to think outside the box. Quick learner and good team player.

**TECHNICAL SKILLS**

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| **Cloud Environments:** | AWS, GCP, MS Azure, OpenStack. |
| **Operating Systems:** | Linux (RedHat, CentOS, Debian Ubuntu), Windows |
| **Virtualization:** | Hyper-V, VMware, Citrix. |
| **Configuration Management Tools:** | Ansible, Chef, Puppet, SaltStack |
| **CI/CD Tools**: | Jenkins, Bamboo, Azure DevOps, Team City, Octopus Deploy |
| **Java Technologies** | Java SE, Multi-threading, Event Handling |
| **Container Tools**: | Docker |
| **Container Orchestration Platform:** | Kubernetes, Docker Swarm, OpenShift. |
| **Version Control Tools**: | Sub Version (SVN), Git, GitHub, GitLab, Bitbucket, TFVC |
| **Build/Automation Tools:** | Gradle, Maven, Ant, Dotnet, MSuild, Udeploy,Node, UiPath, |
| **Monitoring Tools:** | Nagios, Splunk, Cloud Watch, Datadog, AppDynamics, New Relic |
| **Scripting:** | Bash/Shell, Python, Ruby, JSON, PHP |
| **Databases:** | Oracle, MySQL, MS SQL, Mongo DB, Dynamo DB, Raven DB |
| **Web Servers:** | Apache HTTP, Nginx |
| **Application Servers:** | Apache Tomcat, JBoss, Web Logic, WebSphere |
| **Networking:** | DNS, DHCP, SMTP, HTTPS, SNMP |
| **Repository Management tools:** | Artifactory, Nexus, Docker Hub, ProGet, Azure Artifacts |
| **Web Technologies:** | HTML, CSS, HTTP, Bootstrap, Xml and PHP |
| **Bug/Ticket Tracking Tools:** | JIRA, Service Now, Remedy, Bugzilla, You Track, Tech Deck, Azure Boards |
| **Testing Tools:** | Selenium, Junit, Cucumber |
| **Other Tools:** | TFS, Confluence, VSTS, SFTP,RPA. |

**Professional Experience:**

**Microsoft, Dallas,TX Feb 2021 –Current.**

**AZURE SOLUTION ARCHITECT | DEVOPS | INFRASTRUCTURE**

**Lead Azure Cloud Operations**

**Managing Center of Excellence team**

**Handling Client Projects as Consultant**

** Lead for cloud migration and adoption patterns development team.**

** Migration Unit Lead for Microsoft ATT Program**

** Cloud and Devops Training**

** Assessments of the team for project readiness**

** Lead for Interview panel – Cloud infrastructure services**

** Solutions Architect Expert**

**CONSULTANT**

**Chevron, Houston,TX Oct 2016 –2021 Feb Lead DevOps Engineer /System Lead**

**Responsibilities:**

1. Created recommendations on how to duplicate a subset of on-premise machines to the Azure Infrastructure as a Service (IAAS) offering which will be used for disaster recovery. This analysis included the specifics to synchronize on-premise data with SQL Server and SharePoint instances hosted in VMs.
2. 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.
3. Configured Azure Multi-Factor Authentication (MFA) as a part of Azure AD Premium to securely authenticate users and worked on creating custom Azure templates for quick deployments and advanced PowerShell scripting. Deployed Azure SQL DB with GEO Replication, Azure SQL DB Sync to standby database in another region & Fail over configuration.
4. Worked on Serverless services, created and configured HTTP Triggers in the Azure Functions with application insights for monitoring and performing load testing on the applications using the Visual Studio Team Services (VSTS) also called as Azure DevOps Services.
5. Created Azure Automation Assets, Graphical runbook, PowerShell runbook that will automate specific tasks, deployed Azure AD Connect, configuring Active Directory Federation Service (AD FS) authentication flow, ADFS installation using Azure AD Connect, and involved in administrative tasks that include Build, Design, Deploy of Azure environment.
6. Configure Continuous Integration from source control, setting up build definition within Visual Studio Team Services (VSTS) and configure continuous delivery to automate the deployment of ASP.NET MVC applications to Azure web apps and managed Azure Active Directory, Office 365 and applied upgrades on a regular basis.
7. Implemented a CI/CD pipeline with Docker, Jenkins (TFS Plugin installed), Team Foundation Server (TFS), GitHub and Azure Container Service, whenever a new TFS/GitHub branch gets started, Jenkins, our Continuous Integration (CI) server, automatically attempts to build a new Docker container from it.
8. Worked with Terraform Templates to automate the Azure Iaas virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
9. Managed Azure Infrastructure Azure Web Roles, Worker Roles, VM Role, Azure SQL, Azure Storage, Azure AD Licenses, Virtual Machine Backup and Recover from a Recovery Services Vault using Azure PowerShell and Azure Portal.
10. Written Templates for Azure Infrastructure as code using Terraform to build staging and production environments. Integrated Azure Log Analytics with Azure VMs for monitoring the log files, store them and track metrics and used Terraform as a tool, Managed different infrastructure resources Cloud, VMware, and Docker containers.
11. Worked on OpenShift for container orchestration with Kubernetes container storage, automation to enhance container platform multi-tenancy also worked on with Kubernetes architecture and design troubleshooting issues and multi-regional deployment models and patterns for large-scale applications.
12. Deploying windows Kubernetes (K8s) cluster with Azure Container Service (ACS) from Azure CLI and Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test and Octopus Deploy.
13. Using Ansible created multiple playbooks for machine creations and SQL server, cluster server and my SQL installations.
14. Used Ansible to Setup/teardown of ELK stack (Elasticsearch, Log stash, Kibana ) and troubleshoot the build issues with ELK and work towards the solution.
15. Written Ansible handlers with multiple tasks to trigger multiple handlers and to decouple handlers from their names, making it easier to share handlers among Playbooks and Roles.
16. Managed Kubernetes charts using Helm, Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Managed releases of Helm packages.
17. Implemented Docker -maven-plugin in Maven pom.xml files to build Docker images for all microservices and later used Docker file to build the Docker images from the Java jar files.
18. Designed, wrote and maintained systems in Python scripting for administering GIT, by using Jenkins as a full cycle continuous delivery tool involving package creation, distribution, and deployment onto Tomcat application servers via shell scripts embedded into Jenkins jobs.
19. Maintained Artifacts in binary repositories using JFrog Artifactory and pushed new Artifacts by configuring the Jenkins project Jenkins Artifactory plugin.
20. Involved in Jira as defect tracking system and configure various workflows, customizations, and plugins for Jira bug/issue tracker integrated Jenkins with Jira, GitHub.
21. Worked with Nagios for Azure Active Directory & LDAP and Data consolidation for LDAP users. Monitored system performance using Nagios, maintained Nagios servers and added new services &servers.
22. Experience in deploying SQL Databases in AZURE.
23. Discussing with architect on the data modelling to create appropriate tables
24. Participate in daily project sprints, responsible to define user stories and tasks
25. Updating the Jira stories and uploading the code in the GitHub.
26. Ensure deliverables are completed within target timeframes and are consistently of high quality.

**Environment:** Azure, PCF, Office 365, Terraform, Maven, Jenkins, Ansible, Azure ARM, Azure AD, Azure Site Recovery, Kubernetes, Python, Ruby, XML, Shell Scripting, PowerShell, Nexus, JFrog Artifactory, Jenkins, Git, Jira, GitHub, Ansible, Docker, Windows Server, TFS, VSTS, LDAP, Nagios.

**Microsoft - USA Aug 2015 – Oct 2016**

**System Lead**

**Responsibilities:**

1. Designed and implemented CI (Continuous Integration) for building the application by creating Jenkins pipeline jobs by integrating Gitlab, Jenkins and JFrog Artifactory.
2. Designed and implemented the automated Continuous Deployment into various lower environments (Dev, QA, and Performance) and production environments by integrating JFrog Artifactory, Jenkins and Rundeck.
3. Developed Python and Shell scripts for automating Continuous Integration and Deployment process for the application development.
4. Configured apps in Splunk to deploy configurations in applications to monitor logs from applications Service Now and VMWare. Creating dashboard alerts in Splunk to monitor error logs from applications based on thresholds.
5. Designed, developed docker files and creating docker images for configuring the toolchain Jenkins, Gitlab, JFrog Artifactory, Jira, Confluence and Rundeck.
6. Migrated MocaSql application from on-premise to AWS cloud services and ensuring that the application is fully operationalized in cloud.
7. Configured and maintained Ansible role-based application servers including Nginx, JBoss and Tomcat in AWS cloud services.
8. Configured and administrated Gitlab as a version control system for code development.
9. Implemented rapid-provisioning and lifecycle management for Ubuntu Linux using Amazon EC2, Chef, and custom Bash scripts. Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, optimized volumes and EC2 instances, configured S3 versioning and lifecycle policies to and backup files and archive files in Glacier, used IAM and its features
10. Implemented AWS solutions managed and created monitors, alarms, and notifications for EC2 hosts using Cloud Watch, created multi AWS VPC instances, configured Elastic Load Balancers with EC2 Auto scaling groups.
11. Changed the AWS infrastructure Elastic Beanstalk to Docker automated the cloud deployments using Chef and AWS Cloudformation templates and updated the resources using with the helper scripts.
12. Developed automation scripting in Python (core) using Chef to deploy and manage Java applications across Linux servers.
13. Worked on Version control setup GIT and integration tool Jenkins. Installed, Configured and Administered Jenkins Continuous Integration Tool.
14. Worked in authoring pom.xml files, performed releases with the Maven release plugin, projects and managing Maven repositories.
15. Set up build environment integrating with Git and Jira to trigger builds using Web Hooks and Slave Machines by integrating Docker container-based test infrastructure to Jenkins CI test flow.
16. Handled continuous integration with Jenkins by using various plugins like Global Build Stats, Multiple SCMs, Parameterized Trigger and Configuration Slicing to increase the productivity.
17. Setup SCM Polling for Immediate Builds with Maven and Maven Repository (Nexus Artifactory) by installing Jenkins Plugins for GIT Repository.
18. Developed automation framework for Application Deployments to the cloud environments.
19. Developed shell scripts for automation of the build and release process, developed Custom Scripts to monitor repositories, Server storage.
20. Deployed the Java applications into web application servers like JBoss.
21. Performed and deployed Builds for various Environments like QA, Integration, UAT and Productions Environments.
22. Worked on the installation and configuration of the monitoring tool Nagios.
23. Implemented Nagios core for monitoring Infrastructure resources. Set up customized monitoring with Nagios, Nagios Graph for the legacy and new environments. Automated Nagios services for database server, web-server, application-server, networks, file sizes, RAM utilization, Disk performances using Python.

**Environment:** AWS, Dockers, Ansible, Kubernates, Teraform, WebSphere, WebLogic, Jboss, Tomcat and Graphana

**GECRF - USA Aug 2014 – Aug 2015**

**Lead DevOps Engineer/System Lead**

**Responsibilities:**

* Worked on Ansible for configuration management and infrastructure automation.
* Used Ansible to manage Web applications, Configuration Files, Users, Mount points and Packages.
* Wrote Ansible playbooks with Python SSH as a wrapper to manage configurations and the test playbooks on AWS instances using Python.
* Worked on Ansible to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points, and Packages.
* Managed Ansible Playbooks with Ansible roles. Used file module in Ansible playbook to copy and remove files on remote systems.
* Experience in working with GIT to store the code and integrated it to Ansible Tower to deploy the playbooks.
* Deployment to AWS with Chef, Ansible and Terraform towards AWS and using Terraform for building, updating, and versioning infrastructure safely and efficiently, as well as creating custom in-house solutions with Chef or Puppet configurations.
* Developed Chef recipes for Tomcat, MySQL and versioned them on Git repositories and Chef Server.
* Written Chef recipes for various DB configurations to modularize and optimized product configuration.
* Bootstrapping instances using Chef and integrating with auto scaling.
* Carried automated Deployments and builds on various environments using continuous integration (CI) tool Jenkins.
* Used Git for source code version control and integrated with Jenkins for CI/CD pipeline and code quality tracking.
* Experience in Virtualization technologies like VMWare, Vagrant and worked with containerizing applications like Docker.
* Created and implemented chef cookbooks for deployment and used Chef Recipes to create a deployment directly into Amazon EC2 instances.
* Manage and maintain Citrix Web Interface servers including customization and publishing desktops/applications as and when requested by management.
* Participate in Capacity Planning meeting with management
* Group Policy Management for Citrix and Terminal Servers
* Citrix end user management and troubleshooting application issues.
* Creating policies and applying policies to certain groups/apps/servers.
* Experienced in deployment of applications on Apache Web server, and Application Servers such as Tomcat.

**Environment**: RHEL 5.x,6.x, Ansible, Chef, Jenkins, Terraform, Citrix, VMWare, GIT, Sub Version, Apache Web Server, Tomcat, MySQL, Vagrant, EC2, Bash, Docker.

**National Grid – UK Dec 2011 - Aug 2014**

**Build & Release Engineer/System Administrator**

**Responsibilities:**

* Installed and configured operating system RedHat Enterprise Linux.
* Configured Linux Firewall with IPTABLES.
* Package management with the use of YUM & RPM on Red Hat Linux.
* Performed account administration, created users and groups, also added users to the appropriate group.
* Involved in Storage management, LVM, File system management, User account management &data backups.
* Managing systems routine backup, scheduling jobs like disabling and enabling cron jobs, enabling system logging, network logging of servers for maintenance, performance tuning, testing.
* Experience in Virtualization technologies like VMWare &Vagrant.
* Wrote PowerShell scripts to automate several routing tasks, system performance etc.
* Maintained source code in GIT and handled branching, tagging & merging process.
* Performed all necessary day-to-day Subversion/GIT support for different projects.
* Participated in weekly release meetings with Technology stakeholders to identify and mitigate potential risks associated with the releases.
* Responsible for designing and deploying the best SCM processes and procedures.
* Troubleshooted and resolved Build failures due to infrastructure issues reduced by 95% stabilizing the build process.
* Used Chef to manage Web Applications, Config Files, Data Base and Packages.
* Utilized Configuration Management Tool Chef and wrote Chef Cookbooks to automate system operations using recipes in Chef supermarket.
* Used Jenkins/Hudson to automate builds and deployments.
* Worked on integrating GIT into the continuous Integration (CI) environment along with Jenkins.
* Experience in working with different build tools like Ant and Maven to achieve End-to-End Automation.

**Environment:** MS Windows, Bash, Vagrant, Sub Version (SVN), GIT, Chef, Ant, Maven, Jenkins.

**AMP Bank, Australia Mar 2009 –Dec 2011**

**Sr. System Administrator**

**Responsibilities:**

* Installation, configuration, backup, recovery, maintenance and support of RedHat Linux and Solaris.
* Responsible for installing, upgrading and managing packages via RPM and YUM.
* Experience in creating Disk Partitions, Logical Volume Manager (LVM) and RAID.
* Managed user accounts and groups on Linux Servers.
* Configuring SUDO and granting root permission to users for performing certain activities.
* Administered Linux servers for several functions including managing Apache/Tomcat server, mail server, MySQL database, SVN.
* Performed deployment, ongoing maintenance& configuration of systems for maximum availability, security, performance, and documentation in a Linux based production environment.
* Responsible for implementing & managing of RAID levels like RAID 0, RAID 1, RAID 5.
* Installed new servers using kick-start installation, lockdown the servers and perform performance tuning for database installation and configuration.
* Monitored Linux server for CPU Utilization, Memory Utilization, and Disk Utilization for performance monitoring using TOP & SAR.
* Installation, maintenance and regular upgrades of RedHat Linux Servers.
* Resolved several boot related issues such as ensuring that specific kernels are used which integrate well with existing programs.
* Resolved network related problems involving network systems such as DNS and DHCP using TCP/IP related tools.
* Managed storage related issues such as logical volumes on both physical and remote servers.
* Created BASH shell scripts to automate cron jobs and system maintenance. Scheduled cron jobs for job automation.
* Building & configuring RedHat Linux systems over the network, implementing automated tasks through crontab, resolving tickets according to the priority.
* Trouble shooting day-to-day systems issues involving hardware failures and server space issues.
* Supported a large-scale Data Center projects including server installation, hardware maintenance and break/fix activities.

**Environment:** RedHat Linux4.x, 5.x, Solaris, Bash, Kickstart, Subversion, Apache Tomcat, MySQL.

**Freedom Escape, Australia Mar 2007 - Mar 2009**

**System Administrator**

**Responsibilities:**

* Administering an environment which includes (Presentation Server 4.0, Xen App 5.0, 6.0, 6.5 and Xen Desktop 4.0)
* Implementing ‘Bring Your Own Device’ using Citrix technologies – XenApp and XenDesktop on Hyper-V platform.
* Installing Citrix and publishing various applications on XenApp and on legacy PS versions.
* Server builds for Citrix on both Physical and VM.
* Troubleshoot the problems with published Applications and Xen Desktops.
* Installing Citrix Hot fix, Feature Pack and application upgrades according to customer needs
* Handle Critical server outage issues and solve the problems within limited time span.
* Managing PVS servers with Xen Desktop 4.0 farm (200+ VDI’s - Streamed & Non-Streamed)
* Citrix uninstall and Decommissioning process.
* Giving users access to published applications, desktops or contents.
* Generate, analyze and review availability and capacity reports Application report, Citrix license report
* Creating and Configuring Virtual machines, Virtual Hard Disks.
* Managing VM Snapshots, handling VM Imports and exports.
* Configuring Backup and Recovery, Failover clusters. Handling live migration, storage migration.
* Providing day-to-day user administration like adding or deleting users.
* Setting password aging and account expiration for the users.
* Performed patching, backups on multiple environments of Solaris, Linux and VMware.
* Restrict access to files and directories using file permissions. Set UID, GID and sticky bit on files as needed.
* Setting up network environments using TCP/IP, NIS, NFS, DNS, DHCP and Proxy.
* Experience in implementing high availability clusters using RedHat Cluster Solution (RHCS) with EXT3 and EXT4 file systems.

**Environment:** Red Hat, Windows, Solaris, VMWare, Apache Tomcat, Kick Start, WebSphere.

**EDUCATION:**

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| **Degree** | **University** | **Year of Passing** |
| MSc IT | Periyar University | (12/2015) |

##### Personal Details

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