**Venu Bandarupalli**

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**E-mail:** [**myselfbvn85@gmail.com**](mailto:myselfbvn85@gmail.com)

**Mob: 9452370478**

**IT professional** with **12+** years of **Information Technology** industry experience with ability to accomplish all aspects of the software configuration management **(SCM) process,** Software deployment engineering**, DevOps, Build/Release management** and **Systems Engineering** in **Windows, Linux** and **VMware** environments.

**PROFESSIONAL SUMMARY:**

* Expertise in different Azure Service like **App Services, Key vault, function app, Blob storage, Azure Active Directory (Azure AD), Service Bus, vNets, Azure Container Registry (ACR) and Azure Kubernetes service** **(AKS), Azure SQL DB Azure Data Factory, Azure Data Brics.**
* Experience in Azure Kubernetes Service (**AKS**) to deploy a managed Kubernetes cluster in Azure and created an AKS cluster using terraform.
* Good working knowledge on Creating and managing Privileged access management and configuring the roles for various resource in Azure using Azure AD.
* Expertise in **AWS** Administration Services like **EC2, S3, EBS, VPC, ELB, RDS, EMR, Dynamo DB, Auto Scaling, Security Groups, AWS IAM** Services in Users, Groups, Policies, Roles, AWS Access Keys and MFA.
* Expertise in **GCP** Administration Services like **VPC, Load Balancing, Cloud CDN, Cloud Build, Cloud Run, Cloud Functions, Cloud Deployment Manager** and GCP's security features, including IAM (Identity and Access Management), Cloud Security Scanner, and Cloud Armor.
* Configured **AWS Lambda** as an event-driven, serverless computing to automatically run code in response to events and automatically manage the computer resources required by the code.
* A team player with hands on IT expertise prioritizing **CI/CD, Automation of Configuration Management, Security, Build/Release management, Cloud Resource Utilization, Infrastructure Automation** etc.
* Managed multiple AWS accounts with multiple **VPC**'s for both production and non-production environments where primary Objectives included automation, build out integration and cost control.
* Experience in working with Version Control Systems/ Source Code Repository tools like **GIT**, **Bitbucket**, Perforce maintaining/troubleshooting the CM tool in UNIX and Windows environment.
* Integrated **Jenkins** with various Build tools to achieve successful implementation of Jenkins **CI/CD pipeline**, Developed Scripted pipeline to version control various pipelines and maintain the Source of Truth.
* Implemented CI/CD using **Jenkins**. Configured security to **Jenkins** and added multiple nodes for continuous deployments. Deployed applications using build tools like **Ant** and **Maven**. Strong understanding of **build.xml and pom.xml files.**
* Building/Maintaining **Docker** container clusters managed by **Kubernetes** Linux, Bash, GIT, Docker, on cloud environment. Utilized **kubernetes** and docker for the runtime environment of the CI/CD system to build test and deploy.
* Good Experience in working with container-based deployments using **Docker**, **Docker images**, **Docker file**, **Docker Hub**, **Docker Compose** and **Docker registries**. Developed Docker files to create Images of the Build that are later used in the Task and service definitions to deploy tasks on **AKS** & **EKS** clusters.
* Experience in installing and configuring **Kubernetes** and supported it running on the top of the CoreOS also managed local deployments, creating local cluster and deploying application containers.
* Worked on **Nexus** and **Jfrog** **Artifactory** Repository Managers for Maven builds to upload/download the built **Artifacts**.
* Experience in designing and creating **Terraform templates** in setting up the environment using Terraform stack to design and deploy various applications focusing on high-availability, fault tolerance, and auto scaling.
* Experience in working with multi cloud providers, by using Terraform to deploy, manage, and scale resources and Terraforms debugging tools, error logs, and troubleshooting best practices.
* Used **Ansible** and **Ansible Tower** to auto deploy servers rapidly as per the requirement. Implemented and designed AWS virtual servers by **Ansible roles** to ensure deployment of web applications.
* Hands on experience on working with System health and performance **Monitoring Tools** like **New Relic, Splunk, Cloud Watch** and **ELK** tomonitor OS metrics, server health checks, file system usage etc.
* Experience in **Linux/Unix** System Administration, Network Administration and Application Support working on **Red Hat Linux 5/6/7, SUSE Linux 10/11, Sun Solaris 8/9/10, IBM AIX** environments.
* Experience in programming/Scripting languages like **Shell scripts, Python, YAML** to automate the deployments using scripts.
* Planning and executing cloud migration projects to Azure, including assessment, design, and implementation phases and Developing migration strategies and roadmaps, including application and workload prioritization, target state architecture, and migration methods.
* Performed lift and shift migrations of applications and Databases from On-Prem to Cloud platforms like AWS and Azure.
* Created **JIRA** Work flows for multiple projects as per business needs using behaviors with groovy scripting, integrated JIRA projects with Confluence Pages, and constructed Confluence pages. Good hands-on working experience in **Application and Web servers** like **IIS, Tomcat, Apache, WebSphere, JBoss, WebLogic, Nginx.**

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| **TECHNICAL SKILLS:** |
| **Version Control Tools** | GIT, GitHub, Bitbucket, Gitlab |
| **Orchestration** | Terraform, AWS Cloud Formation |
| **Build Tools** | Ant, Maven, MSBuild |
| **Continuous Integration Tools** | Jenkins/Hudson, BuildBot, Bamboo, Sonar |
| **Web technologies** | HTML, XML, JAVA Script, JQuery |
| **Configuration Management Tools** | Ansible |
| **Monitoring Tools** | New Relic, Splunk, Cloud Watch, Kibana |
| **Programming and Scripting Languages** | XML, SHELL, POWERSHELL, Python. |
| **Databases** | Cosmos DB, MySQL, MSSQL, Oracle, Cassandra |
| **Bug Tracking** | JIRA, Remedy, BugZilla, Atlassian |
| **SDLC Methodologies** | Agile/Scrum, Waterfall |
| **Cloud Technologies** | Amazon Web Services (AWS), Azure, GCP. |
| **Web/ Application Servers** | Apache Tomcat, JBoss 4.x/5.x, WebSphere 8.5, WebLogic 10 |
| **Artifactories** | Nexus, Artifactory, Docker Hub |
| **Virtualization** | Docker, Kubernetes, VMware |
| **Testing Tools** | **Selenium, Cucumber, JMeter** |
| **Operating Systems** | Linux (Red Hat, CentOS, Ubuntu), Windows |

**CERTIFICATIONS:**

* AWS Certified Developer - Associate
* Microsoft Azure Administrator
* Certified Kubernetes Administrator
* Azure Solutions Architect

**WORK EXPERIENCE:**

**Patterson Companies Inc-Healthcare (Remote) Oct’2019 – Till Date**

**Sr. Azure DevOps Engineer**

**Roles and Responsibilities:**

* Worked on different Azure Service like App Services, Key vault, function app, Blob storage, Azure Active Directory (Azure AD), Service Bus, Azure Container Registry (ACR) and Azure Kubernetes service (AKS), Azure SQL DB.
* Responsible for creating, deploying, and managing Azure App Services, including Web Apps, API Apps, and Mobile Apps.
* Worked on setting up CI/CD pipeline for Build and deployment process for Azure app services.
* Monitoring and troubleshooting Azure app service using Azure Monitor tool.
* Planning and implementation of storage management such as Azure files, Blob storage and Queue storage.
* Have Worked on Setting up Azure Monitor Dashboard for various Azure Services by enabling Diagnostic settings and writing queries in Log Analytics Workspace to send the logs to Azure storage accounts
* Created Terraform templates for provisioning Virtual Networks, Subnets, VM Scale sets, load balancers, App services, AKS cluster.
* Creating and maintaining containerized micro services and configuring/maintaining Azure container registry (ACR).
* Worked Azure Kubernetes Service (AKS) to deploy a managed Kubernetes cluster in Azure and created an AKS cluster using terraform.
* Implemented Pod security policies (PSP) in AKS for required best practices and the ability to control what pods to be controlled, scheduled in AKS cluster prevents some possible security vulnerabilities or privilege Escalations.
* Implemented HTTPS Ingress controller and use TLS certificate on AKS to provide reverse proxy, configurable traffic routing for individual Kubernetes services.
* Installed and configured Prometheus and Grafana for AKS cluster monitoring and configured metric alerts.
* Troubleshooting and monitoring AKS cluster using Prometheus and Grafana
* Utilized Kubernetes and Docker for the runtime environment for the Continuous Integration/Continuous Deployment system to build, test, and deploy. Created Jenkins jobs to deploy applications to Kubernetes Cluster.
* Worked on creating the Docker containers, Docker images, tagging and pushing the images and Docker consoles for managing the application life cycle and Deployed Docker Engines in Virtualized Platforms for containerization of multiple applications.
* Used Azure pipelines to drive all Microservices builds out to the Docker registry and then deployed to Kubernetes.
* Managed servers on the Microsoft Azure Platform Azure Virtual Machines instances using Ansible Configuration Management and created Ansible Playbooks, tasks and roles to automate system operations.
* Created Ansible roles in YAML and defined tasks, variables, files, handlers and templates.
* Automated Azure infrastructure provisioning by implementing Terraform for various resource creation.
* Created multiple terraform modules to provision different environments like QA, UAT and production.

**Fiserv – Banking Sector - Frisco, TX, USA May’2017 – Sep’2019**

**Sr. DevOps Engineer**

**Roles and Responsibilities:**

* Worked on different Azure Service like App Services, Key vault, function app, Blob storage, Azure Active Directory (Azure AD), Service Bus, Azure Container Registry (ACR) and Azure Kubernetes service (AKS), Azure SQL DB.
* Responsible for creating, deploying, and managing Azure App Services, including Web Apps, API Apps, and Mobile Apps.
* Worked on setting up CI/CD pipeline for Build and deployment process for Azure app services.
* Monitoring and troubleshooting Azure app service using Azure Monitor tool.
* Created Terraform templates for provisioning Virtual Networks, Subnets, VM Scale sets, load balancers, App services, AKS cluster.
* Creating and maintaining containerized micro services and configuring/maintaining Azure container registry (ACR).
* Worked Azure Kubernetes Service (AKS) to deploy a managed Kubernetes cluster in Azure and created an AKS cluster using terraform.
* Implemented Pod security policies (PSP) in AKS for required best practices and the ability to control what pods to be controlled, scheduled in AKS cluster prevents some possible security vulnerabilities or privilege Escalations.
* Implemented HTTPS Ingress controller and use TLS certificate on AKS to provide reverse proxy, configurable traffic routing for individual Kubernetes services.
* Installed and configured Prometheus and Grafana for AKS cluster monitoring and configured metric alerts.
* Troubleshooting and monitoring AKS cluster using Prometheus and Grafana
* Worked in DevOps collaboration team for internal build and automation configuration management and participated in the release cycle of the product, which involves environments like Development, QA and Production.
* Coordinating with Different Teams such as Development, Network, Software and QA Engineers and to continuously improve the efficiency and reliability of Build and Deployment processes to support all phases of development, Planning, deploying, monitoring, and maintaining Amazon AWS cloud infrastructure consisting of multiple EC2 nodes and VMWare Vm's as required in the environment.
* Used security groups, network ACLs, Internet Gateways, NAT instances and Route tables to ensure a secure zone for organizations in AWS public cloud.
* Developed and maintained automated CI/CD pipeline for code deployment using Jenkins on AWS EKS.
* Working on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, Auto scaling to design cost effective, fault tolerant and highly available systems.
* Creating S3 buckets and managing policies for S3 buckets and Utilized S3 bucket and Glacier for Archival storage and backup on AWS.
* Responsible for creating Jenkins pipelines for Nodes, Maven and spring boot applications.
* Setting up and maintaining Domain Names System (DNS) services.
* Creating Ansible playbooks for Microservices.
* Involved in implementing Ansible configuration management and maintaining them in several environments
* Performed Cadence deployments on daily basis.
* Part of DevOps team participated in tools migration from one environment to another.
* Written Terraform scripts to spin up EC2 instances.
* AWS automation through docker and Ansible environment.
* Troubleshooting for failing Microservices.
* Implementing a Continuous Delivery pipeline with Docker, Jenkins and GitHub.
* Planning and developing automated modules for Ansible infrastructure, infrastructure maintenance, installation and deployment automation.
* Written Ansible playbooks to deploy services in remote servers.
* Building/Maintaining Docker container clusters managed by Kubernetes on AWS EKS.
* Worked with container, POD, Deployment, Services, Replication Controller, Replica sets, Auto-scaling, rolling update and red/black deployment.
* Setting up new server (EC2) instances/services in AWS, configuring security groups.
* Developing builds and deployment script using Ansible Playbooks.
* Managed build results in Jenkins and deployed using workflows.
* Support and enhance SDLC cycle by using Docker containers delivered for web application deployment.
* 24/7 on call production support.

**General Motors, Detroit, MI, USA Jul’2015 – Apr’2017**

**DevOps Engineer**

**Roles and Responsibilities:**

* Worked on Microsoft Azure Cloud (Public) to give IaaS support to customer. Make Virtual Machines through Power Shell Script and Azure Portal. Overseen and Created Storage Account and Affinity Group in Azure Portal.
* Dealt with Windows Azure IaaS - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, Traffic Manager, VPN, Load Balancing, Application Gateways, Auto-Scaling.
* Exposed Virtual machines and cloud services in the VNets (Virtual Networks) to the Internet using Azure External Load Balancer.
* Involved in Azure infrastructure management (Azure Web Roles, Worker Roles, SQL Azure, Azure Storage, Azure AD Licenses).
* Worked on Open Shift cluster to deploy.
* Implemented Pod security policies (PSP) in AKS for required best practices and the ability to control what pods to be controlled, scheduled in AKS cluster prevents some possible security vulnerabilities or privilege Escalations.
* Implemented HTTPS Ingress controller and use TLS certificate on AKS to provide reverse proxy, configurable traffic routing for individual Kubernetes services.
* Installed and configured Prometheus and Grafana for AKS cluster monitoring and configured metric alerts.
* Provided high availability for IaaS VM's and PaaS instances for access from other services in the Vnet with Azure load balancers and implemented Azure classic and Azure ARM for deployment process.
* Configured the servers with the Splunk and OpsRamp monitoring and monitored the performance metrics of the production servers.
* Created subscription, Storage Account and tables using Windows PowerShell using automation in Azure.
* Defined and implemented monitoring processes for uptime, performance, and security for solutions deployed to the Microsoft Azure Cloud. Used ELK for monitoring purposes for LOG analytics and Application monitoring and integrated this with Azure for security purpose we use search guard to protect the logs.
* Working with Azure Service Fabric, exclusively to create microservice application, used Stateful partitions with named service and secondary replicas for scalability and availability. Ability to write Shell & Perl scripting.
* Used Azure cloud services, Azure storage, Azure active directory, Azure Service Bus and Hybridization Cloud.
* Used Dynatrace for monitoring the online banking website.
* Led implementation of Azure Active Directory for single sign on, authentication, authorization and Azure Role-based Access Control (RBAC).
* Implement required AWS services to High Performance Computing Experience. Especially, experience in leveraging AWS services including EC2, S3 storage, EFS (Elastic File System), IAM (Identity and Access Management) Cloud Formation, Cloud watch, DynamoDB.
* Automate AWS Backup for applications like Confluence to maintain backup by supported AWS services (EFS, RDS etc.) and migrate Confluence Data from source to destination by using AWS Data Sync agent.
* Responsible for administration of GIT version control and Perform activities branching, tagging, backup, restore.
* Automated the process of deployment to Apache Tomcat Application Servers by developing Unix/Python Scripts.
* Worked extensively on AWS broad range of services such as provisioning EC2, VPC, ELB, Security Groups, IAM, EBS, S3, SNS, SQS, Route53, ELB, Cloud Watch, Cloud Front, Cloud trial, RDS
* Worked on container-based deployments using the Docker images and Docker registries, pulled the required images from Docker Hub, Nexus. Used Docker to avoid the environment difficulties between Developers and Production.
* Design and implement the CICD architecture and automation solutions using GITHUB, Bitbucket, Jenkins, Bamboo, and Ansible Tower. Deploying to production environment in AWS using Terraform
* Automation of Data transfer between on-premises and Cloud platforms leveraging HPC scripts.
* Design and deploy the infrastructure and services for new applications by tools such as SonarQube, Blackduck and Jenkins etc.
* Configured AWS Identity and Access Management (IAM) users and groups
* Designed infrastructure for AWS application and workflow using Terraform.
* Creation of terraform configurations for AWS infrastructure and for other requirements.
* Developed Shell Scripts and Perl for automation of the build and release process.  Developed custom solutions in C# and PowerShell to validate availability, consistency, and compliance with environments
* Implemented the automated Nagios in Ops environment for alerts & email notifications using Python script & executed them through Ansible.
* Deployed web applications behind AWS CloudFront and added a layer of security via AWS WAF.

**Pacific Life, Newport Beach, CA Oct’2013 – Nov’2014**

**Sr. System Administrator**

**Roles and Responsibilities:**

* Developed Data center environment with VSphere 5x, vCenter Lab manager 4.0, Site Recovery Manager 5,4.1, VMWare view), vCO (vCenter Orchestrator), vCops 5.7(vCenter Operations),vCloud director suite.5.1,5.5, vRealize automation 6.0,vSAN,vNSX
* Worked with DBA team for database performance issues, network related issues on Linux Servers.
* Designed, Installed and implemented **VMware ESXi Server**, VMware Virtual Center, VMware vSphere, VMware Infrastructure client and other products for Virtualization.
* Responsible for upgrading the Virtual Machines, VMware ESXi hosts and **vCenter server**s in the organization. Installed and configured Linux virtual machines on VMware infrastructure.
* Created New Virtual Machines, cloning VM, DR’s and Snapshots.
* Created and managed templates in VCenter. Server migration from **Physical to Virtual (P2V)** and **Virtual to Physical (V2P)**. Installation and configuration of Red Hat Linux on VSphere and VMwareESX.
* Involved in P2V, V2P Migration using Stand Alone VMware Converter Server and Plate Spin.
* Performed ESX Hosts and Virtual Machine migrations between Development, Integration, and Production environments and across Datacenters.
* Developed **Bash and python scripts** for day-to-day administration.
* Modified Kernel parameters to improve the server performance in Linux. Creation of **Logical volumes (LVM**) for Linux operating systems.
* Involved in design, configuration, installation, implementation, management, maintain and support for the Corporate Linux servers RHEL 4x, 5.x,7.x CENTOS
* Strong experience with the VMware HA (**High Availability**), FT (**Fault Tolerance**), DRS (Distributed Resource Schedu
* ler, Troubleshooting ESX issues related to storage, network and performance issues
* Experience configuring, maintaining **NFS, LDAP (PAM), DNS (BIND), DHCP, Kerberos, Apache tomcat** Servers as per environment's requirements
* Responsible for building of Linux OS servers using **kickstart automation** application
* Created logical volumes, extending the file system using **LVM**
* Set up user and group login IDs, network configuration, password, resolving permission issues
* **Patch management**, package installation/upgrades, and **kernel upgrades**, done backups using tar and recovering during data loss. Remote copying files using **sftp, ftp, winscp, and FileZilla**
* Schedule jobs with **cron** and at utility and giving cron eligibility for administrative accounts.

**ShellPro, Hyderabad, India Jan’2011 – Sep’2013**

**Linux System Administrator**

**Roles and Responsibilities:**

* Installed, upgraded and configured **Red Hat Enterprise Linux 4/5/6.**
* Responsible for installing, integrating, tuning and troubleshooting **Apache, Tomcat, WebSphere** and **Web logic application server**.
* Setup, configured and maintained **NFS, NIS,** and **TCP/IP network**, setting up **SSH** and **SCP** features between hosts.
* Configuration and administration of **DNS, LDAP, NFS, NIS and NIS+ on Red Hat Linux**.
* Hands on experience working with production servers at multiple data centers.
* Automated server building using **Kick starting RHEL 6** and **Jumpstarting Sun Solaris 10.**
* Developed bash **shell scripts** to automate routine activities.
* Network troubleshooting using **'netstat', 'ifconfig'** and Worked closely with vendors on Hardware Problems, software fixes.
* Troubleshooting production servers and configuring standalone production server for testing.
* Configured **yum repository** server for installing packages from a centralized server.
* Created local repository to connect **Linux server to RHEL** site for downloading packages and patches.
* Created local repository in **yum.repos.d** to run packages using yum, rpm and up-to-date.
* Installed and configured **DCHP server** in Linux to give IP leases to production servers.
* Management of **Red Hat Linux** user accounts, groups, directories, File Sharing Permissions, backup and restore operations, and networking service.
* Configuration of **LVM (Logical Volume Manager)** to manage volume group, logical and physical partitions and importing new physical volumes.
* Configured, managed **ESX VM's** with **virtual center and VI client**.
* Performed Disk management with the help of **LVM (Logical Volume Manager).**
* Configuration and Administration of **Apache Web Server and SSL**.
* Backup management using **CRONTAB**, running the backup based on client requirements.
* Provided 24/7 on call support on **Linux** Production Servers. Responsible for maintaining security on Red Hat Linux.

**EDUCATION:**

* Bachelors May 2010 – Osmania University. BCA.

**LinkedIn:**

* linkedin.com/in/b-venu-7940a624