**Balamurali Vallappa**

**Lead CloudOps Engineer**

**Contact Number: 321-677-7011**

**Email ID:** balamuralii665@gmail.com

**PROFESSIONAL SUMMARY:**

* Over 8+ years of professional experience in IT and 6+ Experience in Installation, configuration and troubleshooting of Red hat Linux, Ubuntu and Windows on various hardware platforms and over 6 years in DevOps tools like SVN, GIT, ANT, Maven, Jenkins, Ansible, Chef, Docker, Kubernetes and Azure.
* Proficient with Linux/UNIX/Windows systems, maintenance of user groups, development integration, tools infrastructure, installation and maintenance
* Working Experience on Azure Cloud Services, Azure Storage, and SQL Azure and in different PaaS Solutions with Web, and worker Roles and Azure Web Apps.
* Strong Experience in Micro services architecture and Migration of all servers from on - premises to Docker/Kubernetes container technologies inAzure.
* Hands on experience on Azure VPN-Point to Site, Virtual networks, Azure Custom security, end security and firewall. Used Azure Express Route to set up a private connection to Microsoft cloud services such as a Microsoft Azure, Office 365, and Dynamic 365.
* Spin up clusters and build quickly in a fully managed Apache spark environment with the global scale and availability of Azure (Azure Databricks)
* Expertise with Docker images using a Docker file, worked on container snapshots, removing Images and managing Docker volumes. Orchestration of Docker images and Containers using Kubernetes by creating master and node.
* Created Shell scripts (Bash), Ruby, Python, Groovy, YAML and PowerShell for automating tasks.
* Experience in Configuring and Managing logging and monitoring tools such as Nagios, AppDynamics, Prometheus, SumoLogic, Splunk, ELK.
* Expertise in using Chef Attributes, Chef Templates, Chef Recipes and Chef Files for managing the configurations across various nodes, build, design and maintain the platform automation using Chef and Involved in setting up Chef Workstation, Nodes, Cookbooks, and Recipes using Ruby Scripting.
* Used Jenkins as Code Deploy plugin to deploy to Azure and extensively worked on other tools like Bamboo, Hudson, and Cruise Control for continuous integration and for all end-to-end automation functions with all build and deployments.
* Integrated Jenkins with Docker container using Cloud bees Docker pipeline plugin and provisioned the EC2 instance using Amazon EC2 plugin.
* Experience leveraging TFS (Team Foundation Server) environments using Visual Studio, .NET and Microsoft SQL Server
* Experience in JIRA for ticketing and as well as defect tracking system and configure various workflows, customizations and plug-ins for JIRA bug/issue tracker, integrated Jenkins with JIRA, GitHub, Maven.
* Fully automated the Azure Devops pipelines CI/CD using PowerShell and Python based on cloning Method.
* Experience in automated builds using TFS team build for .net applications and Salesforce.
* Involved in the setup of Chef servers, workstations, nodes and bootstrapping new infrastructure chef nodes for configuration management.
* adapt to perform for the CI/CD tool (GITHUB, Bitbucket, Jenkins, ANSIBLE TOWER) chain that is available at Customer environment or proposed to be made available.
* Expertise in Java, .Net build tools Ant, Maven, Gradle and MSBuild.
* Used SonarQube for continuous inspection of code quality to perform automatic reviews with static analysis of code to detect bugs, code smells.
* Updated Microservice CI/CD Pipeline to include dynamic test execution.
* Worked as Cloud Administrator on Microsoft Azure, involved in configuring virtual machines, storage accounts, resource groups.
* Experience in orchestration of changes across servers, Tiers and components in Urban code.
* Expertise Knowledge in bash Shell, PowerShell and Python scripting.
* Experience in multiple development groups to design/create automated build and deployments using MSBuild, Ant, JACL, VBScript, Nant and PowerShell Scripting.
* Experience in building a Command line tool to interact with RESTful API using Golang.
* Having good Experience in DevOps tools UrbanCode Deploy, Puppet and Chef.
* Expertise in Repository Management tools Artifactory and Nexus.

**Technical Skills:**

| **Operating System** | Linux, Windows, MacOS, UNIX, Solaris, Ubuntu/Centos |
| --- | --- |
| **CI and CD Build Tools** | ANT, Maven, Hudson, Jenkins, Bamboo, Spinnaker, Azure Devops, VSTS |
| **Cloud Platforms** | Azure, AWS |
| **Version Control Tools** | GIT, GitHub, Subversion, Bit bucket, CVS, Clear Case |
| **Automation/ Configuration Management Tools** | Chef, Puppet, Ansible |
| **Monitoring and Logging Tools** | Nagios, Splunk, ELK, Datadog, Dynatrace |
| **Containerization Tools** | Kubernetes, Docker, Docker Swarm, OpenShift |
| **Testing and Ticketing Tools** | SonarQube, Selenium, JIRA, Service Now, Remedy Connect Wise |
| **Virtualization Technologies** | Windows Hyper-V, VMWare ESXi, Virtual Box, vCenter, vSphere, Power VM |
| **Programming Languages and Scripting** | Python, Java, C, Shell Scripting, Ruby Scripting, PowerShell, YAML, Perl, Bash |
| **Web Technologies** | HTML, CSS, XML, AJAX |
| **Database Systems** | Oracle 10g/9i, SQL Server, IBM Sterling, MySQL, NoSQL (MongoDB, Cassandra) |
| **Application/Web Server** | Tomcat, Apache, IIS, Oracle, WebLogic |
| **Networking/Protocols** | DNS, DHCP, NIS, NFS, WAN, SMTP, LAN, FTP/TFTP, TCP/IP, HTTP, HTTPS, VLAN, ARP, TLS, SSL |

**Certifications:** [**https://www.credly.com/badges/7fdee1fa-b583-4c36-933b-74321167f15a/public\_url**](https://www.credly.com/badges/7fdee1fa-b583-4c36-933b-74321167f15a/public_url)

**PROFESSIONAL EXPERIENCE:**

**Lead CloudOps Engineer**

**Citrix, Remote-TN**

**March 2021- Present**

**Responsibilities:**

* Experience in Cloud computing, Windows Azure environment, creating the New VMs, Azure subscriptions, storage accounts, managing SSL certificates for IIS websites, administering Azure assets using PowerShell.
* Worked on Azure cloud services, Azure storage, Azure active directory, Azure service Bus. Create and manage Azure AD tenants and configure application integration with Azure AD. Integrate on-premises Windows AD tenants and Configure application integration with Azure AD.
* Provisioned Azure resources using Terraform and used workspaces for environments
* Implemented Azure DevOps YML pipeline templates, as golden templates.
* Configured 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.
* Deployed ASP.NET web Application in Azure using Web App service, connected it to Azure SQL Database and used VSTS to provide CI/CD pipeline.
* Extensively worked in the operations team to streamline the process of implementing security at Azure cloud environment.
* Developed PowerShell scripts and ARM templates to automate the provisioning and deployment process.
* Developed and Designed Azure DevOps pipelines to manage the resources across multiple subscriptions in Azure.
* Experience with Azure Cloud Services (PaaS &amp; IaaS), Azure Virtual Machines Azure Storage, SQL, Azure, Azure Active Directory, application insights, and logic apps.
* Managing and operationalizing Continuous Delivery pipeline applications/tools and infrastructure. Such as Jenkins, Nexus/Artifactory, SonarQube
* Implemented APIM for applications hosted in Azure.
* 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.
* Had very strong exposure using Ansible automation in replacing the different components of OpenShift like ECTD, MASTER, APP, INFRA, Glister.
* Used Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple namespace versions.
* Integrated Jenkins with various DevOps tools such as Ansible and used CI/CD system of Jenkins, utilizing Docker for the runtime environment for the CI/CD system to build and test and deploy.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker.
* Utilized Kubernetes for the runtime environment of the CI/CD system to build, test deploy.
* Helped in creating a next generation platform using CoreOS Linux with fleet / Kubernetes based on docker containers running in a microservices ecosystem on VMWare ESXi.
* Designed, implemented and supported fully automated CI and CD processes using Ansible and the Terraform.

**Sr. DevOps Engineer**

**Saggezza, MO**

**August 2020- March 2021**

**Responsibilities:**

* Extensively worked in the operations team to streamline the process of implementing security at Azure cloud environment.
* Developed PowerShell scripts and ARM templates to automate the provisioning and deployment process.
* Developed and Designed Azure DevOps pipelines to manage the resources across multiple subscriptions in Azure.
* Experience with Azure Cloud Services (PaaS &amp; IaaS), Azure Virtual Machines Azure Storage, SQL, Azure, Azure Active Directory, application insights, and logic apps.
* Experience in Cloud computing, Windows Azure environment, creating the New VMs, Azure subscriptions, storage accounts, managing SSL certificates for IIS websites, administering Azure assets using PowerShell.
* Worked on Azure cloud services, Azure storage, Azure active directory, Azure service Bus. Create and manage Azure AD tenants and configure application integration with Azure AD. Integrate on-premises Windows AD tenants and Configure application integration with Azure AD.
* Configured 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.
* Deployed ASP.NET web Application in Azure using Web App service, connected it to Azure SQL Database and used VSTS to provide CI/CD pipeline.
* Experienced in branching, tagging, and maintaining the version control systems across the environments using SCM tools like GitHub.
* Used a log monitoring tool called ELK to see log information. Implemented new ELK cluster for enterprise logging.
* Worked with various AWS EC2 and S3 CLI tools. Worked on setting up the life cycle
* policies to back the data from AWS S3 to AWS Glacier Experienced in Amazon EC2
* setting up instances, virtual private cloud (VPCs), and security groups.
* Managed Amazon Web Services like EC2, S3 bucket, RDS, EBS, ELB, Auto-Scaling, AMI, IAM through AWS Console and API Integration
* Experience in working with a broad range of AWS services and resources like EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, (Elastic Kubernetes services) EKS, Auto scaling, CloudFront, Cloud Watch, Cloud Trail, Cloud Formation, AWS Athena, AWS EMR, Helm, OPS Work, Security Groups.
* Built servers using AWS Cloud Formation scripts: Importing volumes, launching EC2, RDS, assigning roles and policies via IAM, Implementers Auto-Scaling, load balancers (ELBs), Security groups in the defined Virtual Private Connection.
* Configuring and managing an ELK stack, set up the elastic search ELK Stack to collect, search and analyze log files from across the servers and integration of Application with monitoring tool New Relic for complete insight and proactive monitoring.
* System configuration/hardening using IP tables, SELinux, TCP Wrappers, ACL and traditional permission on Linux servers as well as restricting access to terminals, disabling unnecessary services and securing

**Sr. DevOps Engineer**

**Carnival Cruise Line, FL**

**March 2017- May 2020**

**Responsibilities:**

* Experience in Cloud computing, Windows Azure environment, creating the New VMs, Azure subscriptions, storage accounts, managing SSL certificates for IIS websites, administering Azure assets using PowerShell.
* Worked on Azure cloud services, Azure storage, Azure active directory, Azure service Bus. Create and manage Azure AD tenants and configure application integration with Azure AD. Integrate on-premises Windows AD tenants and Configure application integration with Azure AD.
* Configured 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.
* Deployed ASP.NET web Application in Azure using Web App service, connected it to Azure SQL Database and used VSTS to provide CI/CD pipeline.
* Extensively worked in the operations team to streamline the process of implementing security at Azure cloud environment.
* Developed PowerShell scripts and ARM templates to automate the provisioning and deployment process.
* Developed and Designed Azure DevOps pipelines to manage the resources across multiple subscriptions in Azure.
* Experience with Azure Cloud Services (PaaS &amp; IaaS), Azure Virtual Machines Azure Storage, SQL, Azure, Azure Active Directory, application insights, and logic apps.
* 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.
* Had very strong exposure using Ansible automation in replacing the different components of OpenShift like ECTD, MASTER, APP, INFRA, Glister.
* Used Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple namespace versions.
* Integrated Jenkins with various DevOps tools such as Ansible and used CI/CD system of Jenkins, utilizing Docker for the runtime environment for the CI/CD system to build and test and deploy.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker.
* Helped in creating a next generation platform using CoreOS Linux with fleet / Kubernetes based on docker containers running in a microservices ecosystem on VMWare ESXi.
* Designed, implemented and supported fully automated CI and CD processes using Ansible and the Terraform.
* As we are migrating to new Casino Application System, currently working on CI/CD Pipelines in AZURE DevOps environments by providing their dependencies and tasks
* Installation, Configuration and Management of RDBMS and NoSQL tools such as MySQL, DB2, PostgreSQL, MongoDB & Cassandra.
* Knowledge on Implementing RabbitMQ for driving towards better user interactions with our applications as well as between the Microservices.
* Create PowerShell scripts to automate complex, repetitive tasks and to interact with WMI.
* Setup of infrastructure: Physical servers and virtual machines on Ships of All the brands.
* Setup and Configure web applications (115 Web Servers) and Application servers (Casino Management Systems)
* Setup and Configure and maintenance of Oracle Databases (Oracle 11g).
* Configure Nagios/AppDynamics/ManageEngine/ELK for application, database and infrastructure monitoring.
* Provide overall management of the SPLUNK platform
* Assist with design of core scripts to automate SPLUNK maintenance and alerting tasks. Support SPLUNK on UNIX, Linux and Windows-based platforms. Assist with automation of processes and procedures
* VMware VCenter management - Spinning new VM's and monitoring existing VM's.
* Strong interpersonal and communication skills and the ability to work effectively. 24x7 on call support.

**Environment:** SVN (Subversion), ANT, and Maven, Puppet, Chef, Jenkins, Unix, Linux, Perl, Bash, Python, Ruby, Sonar, Git, JIRA, Shell Script, Weblogic, Selenium.

**Automation Engineer/Devops Engineer**

**Verizon, FL**

**June 2016- February 2017**

**Responsibilities:**

* Interact with end users to obtain specific system requirements and develop Test Plans, Test Cases and Test Scenarios.
* Designed and implemented CI (Continuous Integration) system: configuring Jenkins’s servers, Jenkins nodes, creating required scripts (Shell, Python), and migrated Stream sets production pipelines code to GitHub repositories for future deployments using the predefined CI/CD framework.
* Wrote Python and Shell scripts to monitor installed enterprise applications and to get managed the configurations of multiple servers using Chef. Created multiple recipes and customized facts for efficient management of the Chef clients.
* Used Jenkins and pipelines which helped us drive all micro service builds out to the Docker registry and then deployed to Kubernetes.
* Reviewed test results, issues and defects related to business units.
* Involved in test scenario, Test case preparations Preparation of test designs.
* Execute the test cases and report defects in the Quality center.
* Performed System Testing, Interface Testing, and Multi Browser testing.
* Responsible for complete End to End Web application testing.
* Designed & Implemented a Hybrid Test Automation Framework (Data + Keyword) using Selenium Web Driver.
* Scripting the test cases for regression using Selenium WebDriver using Java
* Modify Updating of Automation scripts and execution of multiple browsers
* Coordinated in training other QAs regarding usage of Selenium framework.
* Created manual Test Cases in HP QC/HP ALM for various User Stories based on Release and Sprint Plan
* Used Selenium Grid to execute parallel tests on multiple browsers - IE, Chrome, Firefox & Safari
* Work on Stored procedure for data migration using PL/SQL
* Work on RESTFUL based web services using JAX-RS

**Environment:** Selenium Webdriver, JDK1.5/1.6/1.8, core Java, JAX-RS, AJAX, JavaScript, Oracle 10g, JSP 2.0, Servlet 2.4, J2EE, UML

**DevOps/Analyst - CE**

**Global Logic Technologies, India**

**December 2013 – July 2014**

**Responsibilities:**

* Participate in special projects/initiatives: innovate and implement large-scale quality improvements to processes and/or systems by conducting data analyses and making recommendations, troubleshooting technical issues, and refining processes around customer support and product expansion.
* Investigate, identify, and prevent/remove product quality issues by reviewing accounts, transactions, user-generated content, advertisements, local business listings, and/or search results in order to enforce product-specific policies.
* Increase efficiency through processes and system enhancements.
* Manage and respond to escalations from internal and external parties within designated service levels as appropriate.
* Collaborate with cross-functional groups such as Engineering and Product by exposing product vulnerabilities and providing feedback on systems/tools/processes in order to increase automation while providing a better experience for our users.
* Mentor new recruits on Google Map process controls and documentation requirements
* Consistently rewarded as top Performer within the Google Maps Team

**Environment:** Ubuntu, Google Maps, Google Atlas Tool

**Database Administrator/DevOps**

**Proxim Technologies**

**July 2012 – December 2013**

**Responsibilities:**

* Involved in implementing and enforcing database security by creating new users, roles, profiles and providing required user privileges in development, test and production environments.
* Gained understanding in manual configuration of Oracle database using commands.
* Involved in reviewing code before deployment on QA and production to make sure it's according to defined standards.
* Experience in performing database re-organizations as required assisting performance and ensuring maximum uptime of all the databases.
* Gained keen understanding in scheduling and maintaining various jobs and monitoring database
* Involved in renaming databases and data files as per development and test standards.
* Involved in opening Service Request (SR) with Oracle support and working with them as required.
* Experience in performing database recovery using RMAN as and when required.
* Involved in maintaining and updating the database

**Education:**

* Bachelor of Engineering in Information Technology from Jawaharlal Nehru Technological University Anantapur, India (2012).
* Master’s degree first semester in Computer and Information Systems from Florida Institute of Technology, USA.
* Master’s Degree in Computer and Information Systems security/ Information Assurance from Wilmington University, USA (2016).