Ravi Chandra Manupati

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**DevOps/OpenShift Engineer**

Competitive IT professional with around 7+ years of experience in Information Technology industry comprising of integration, testing, deployment, support and DevOps role in Financial domain.

**Professional Summary:**

* In-depth understanding of the principles and best practices of Software Configuration Management (SCM) in Agile, SCRUM, Waterfall methodologies.
* Experience in setup the OpenShift Container Platform to migrate the applications according to the enterprise.
* Experience in PaaS with RedHat OpenShift Container Platform, Architecting, installing, and configuring the platform using different tools and technologies.
* Experience in managing Microservices in multiple operating systems and platforms working in Private, Public and Hybrid clouds, Infrastructure and Technical leading teams.
* Extensively worked on Jenkins for continuous integration and for End-to-End automation for all build and deployments.
* Experience in configuring CI/CD, pipeline jobs using Groovy scripts in Jenkins.
* Experience architecting and building solutions leveraging DevOps tools such as Docker, Jenkins, and GitHub.
* Experience in writing the Automation scripts using Ansible for End-to-End deployments.
* Efficient in setting up DevOps Automation and Continuous Integration including designing of automated build systems for work set of enterprise applications on UNIX or Windows environment
* In-depth understanding of computer applications and scripting like Shell, Python & Perl.
* In-depth understanding of the principles and best practices of Software Configuration, which include compiling, packaging, deploying and Application configurations.
* Extensively working with CI/CD and configuration management tools like Jenkins and Ansible.
* Implemented a Continuous Delivery pipeline with Docker, Kubernetes, Jenkins, and GitHub
* Experienced in working with logging and monitoring tools like Splunk, Prometheus, Grafana and Dynatrace to trigger the event handlers to send a notification and act according to the script.
* Experience in virtualizing RHEL and Windows environment with VMware ESX.
* Extensive experience in writing various automation scripts to automate manual tasks, deploy applications, application build scripts, and application packaging etc. using Advanced Shell, Perl, and Python Scripting.
* Troubleshoot and debug web and application servers for system and application issues.
* Excellent communicative, interpersonal, intuitive, and analytic and leadership skills with the ability to work efficiently in both independent and teamwork environments.

**Technical Skills:**

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| --- | --- |
| Operating Systems | Linux (Red Hat 5.x, 6.x, 7.x), UNIX. |
| Version Control Tools | GIT, GitHub, Bitbucket |
| Bug tracker & Testing | JIRA |
| SDLC | Agile, Waterfall, Kanban. |
| Application Servers | JBOSS, Apache Tomcat. |
| Scripting | Shell, Python. |
| Build Management Tools | Maven, Gradle. |
| CI/CD Tools | Jenkins. |
| Storage | NAS, Portworx. |
| Automation & Configuration tools | Ansible, Terraform, Jenkins, Docker. |
| Logging & Monitoring Tools | Splunk, Dynatrace, Prometheus, Grafana. |
| Cloud Environment | AWS |
| Orchestration Tools | Kubernetes, OpenShift, Rancher |
| Artifactory | JFrog. |
| Other Tools | Docker, Kubernetes, SonarQube, Ansible Tower. |

**Certifications:**

* Microsoft Certified Technology Specialist: 70-432: Microsoft SQL Server 2008, Implementation and Maintenance.
* AWS Certified Solutions Architect - Associate (SAA) - H70H8WVCGBVEQ73Y

**Professional Experience**

**Fifth Third Bank Oct 2017 – Present**

**Cloud OpenShift Engineer**

Responsibilities:

* Managed Microservices in multiple operating systems and platforms working in Private, Public and Hybrid clouds, Infrastructure and Technical leading teams.
* Implemented Platform as a Service and Container as a Service solution to support Microservices, DevOps, and Agile strategies for the organization.
* Worked with Microservices using Docker Containers, Kubernetes, OpenShift, deploying applications in multiple Public and Private clouds like VMware, Amazon Web Services.
* Responsible for analysis, design, implementation, and ongoing support of the Enterprise Hybrid Cloud.
* Provided end-to-end support for analysis, design and implementation of the applications in OpenShift Container Platform in both Private and Public environments like VMware and AWS.
* Developed OpenShift architecture with business principles that supports to design the architecture of the Digital Transformation application which could deploy in OpenShift Container Platform.
* Coordinates projects and implements new technologies and systems of a moderate to high level of complexity.
* Partnered with Architecture, Cloud, Server, Middleware, and Application teams to perform POCs and complete technical design for Platform as a Service (PaaS) and Container as a Service solution for the organization.
* Managing the OpenShift VM’s in VMware and handled the Snapshots of the Servers.
* Managed admin jobs like Installed/ upgraded patches, firmware, MP, GSP, BIOS and security (Kernel) patches for all HW & OSs in installed infrastructure.
* Developed Ansible Playbook for Automatic Deployment and Configuration of OpenShift in multiple environments.
* Developed and maintained Ansible playbooks and automating the day-to-day tasks for users as part of self-service jobs.
* Design, implement and maintain Continuous Integration and Delivery environments.
* Develop and maintain automation and orchestration software and scripting to integrate with all underlying public and private cloud technologies.
* Implement fully automated server build, management, monitoring, and deployment solutions spanning multiple platforms, tools and technologies.
* Developed the Jenkins Pipeline for automatic creation of projects, Code Promotion across environments, Image deployments in OpenShift Platform.
* Design, implement and maintain Continuous Integration and Delivery environments.
* Implemented Logging, Monitoring, Authentication & Authorization, Secret Storage Solutions like Splunk, Prometheus, Grafana, Ping, Vault etc.
* Experience in creating inventory, job templates and scheduling jobs using Ansible Tower.
* Deployed AWS resources using Terraform code through Terraform enterprise and Terraform Cloud Environments.
* Managed AWS EC2 Instances, Created and Managed VPC, Subnet, AWS Security groups, S3 Buckets, Glacier Vaults.
* Managed AWS IAM roles, Lambda functions for day-to-day operational activities and troubleshoot AWS Network Issues.
* Worked on Terraform Cloud POC and designed the architecture of Sentinel policies and RBAC model.
* Documented the Business Principles, System Architecture, and ITAC for OpenShift Container Platform.
* Organized the workshops on OpenShift in the organization to share the knowledge on application deployments in OpenShift Environment.
* Assist with problem resolution for cloud management issues.

**Environment**: RedHat Enterprise Linux, OpenShift Container Platform, Docker, Kubernetes, Terraform, Ansible, Ansible Tower, AWS, VMware, Git, Jenkins, Splunk, Prometheus, Grafana, Ping, vault.

**Western Union, Columbus, OH** **Oct 2016 – Sep 2017**

**DevOps Engineer/OpenShift Administrator**

**Responsibilities:**

* Managed Microservices deployment in multiple operating systems and platforms working in Private, Public and Hybrid Clouds.
* Subscribed and Managed the OpenShift nodes to download the required RPM’s and Packages used to install the OpenShift platform.
* Developed the Ansible scripts to deploy OpenShift Container Platform for various environments.
* Maintained and managed in deploying Ansible scripts using Ansible Tower.
* End-to-end application deployment and management in OpenShift Container Platform.
* Developed and maintained the Continuous Integration and Continuous Deployment pattern for the applications.
* Maintained the Jenkins Pipeline to support the application to deploy in OpenShift Container Platform.
* Defined and managed the projects, user roles, pod network, service accounts, role-based access control, quotas, high availability, data, and traffic encryption for the application.
* Design, implement and maintain Continuous Integration and Delivery environments.
* Deployed open-source Vault in OpenShift and support the application team to consume the secrets by the deployed applications in OpenShift.
* Created and added users to the POC projects in OpenShift and support the customers to understand the OpenShift concepts.
* Supported the deployment of Spring Boot Application in OpenShift Container Platform with Health Checks and Metrics.
* Supported the Secret management of the application by integrating with HashiCorp Vault.
* Integrated the application with logging and monitoring tools like Splunk, Prometheus.
* Created the dashboards and setup the alerts in Grafana to track the application usage metrics.
* Used GitHub as Version control systems for code management.
* Maintained and managed the artifacts in JFrog.

Environment: RedHat Enterprise Linux, OpenShift Container Platform, Docker, Kubernetes, Ansible, Ansible Tower, Git, Jenkins, Splunk, Prometheus, Grafana.

**Invesco, Hyderabad, India Nov 2013 – July 2015**

**Linux Administrator**

Responsibilities:

* Installation and administration of **RHEL 4.0/5.0/6.0** and **CentOS 5.**
* Installation, configuration, administration of **Solaris 9, 10** on **SPARC** based servers using Jumpstart.
* Remote system administration using tools like **SSH, Telnet,** and **Rlogin**.
* Applied appropriate support packages/patches to maintain system integrity.
* Using **Python** experience in working with architectural patterns.
* Proficient understanding of code versioning tools (GIT).
* Creating profiles manifests for new servers and pushing them to servers using **puppet.**
* Responsible for maintenance of development tools and utilities and to maintain **Shell**, **Perl** automation scripts.
* Creating, installing, WebLogic Application servers, deploying WAR, JAR files on them installed on both Linux, Solaris servers.
* Checking the quality, security, and performance of the customer's applications.
* Worked with project manager and auditing teams to implement **PCI**, **SOX** compliance.
* Fine tuning of Servers and configuring networks for optimum performance.
* Setting up network environments using **TCP/IP, NIS, NFS, DNS, SNMP** agents, **DHCP** and **Proxy**.
* Performed Restack migrations for RedHat Servers supporting Middleware applications such as **WebLogic** and **JBoss** from Physical blade servers to Virtual Machines in the VMware Infrastructure.
* Installation, maintenance and administration of **Oracle** and **Db2** Server on Sun Servers.
* Assisted in administering **VMware SRM** to accommodate virtual machine replication.
* Set up user and group login ID's, printing parameters, network configuration, password, resolving permissions issues, user, and group quota.

**Environment:** Solaris 2.9 / 2.10, Red Hat Linux AS/EL 4.0, VMware, AIX 5.2, 5.3, Sun E10k, E25K, E4500, DMX 3 & DMX4, SiteMinder, SVM.