Shiva Kumar G

**Cloud Engineer**

[gshiva.2221@gmail.com](mailto:gshiva.2221@gmail.com)

631-579-5679

**Professional Summary**

* **8+ years** of experience in Cloud Engineering automating Infrastructure As Code, DevOps CICD pipelines, and Patch Automation processes.
* Strong background in Linux/Unix Administration, Build & Release Management, and Cloud Implementation within Enterprise Cloud Environments.
* Experience in Configuration management tools such as **Chef, Ansible** and **Puppet**. Wrote **Chef** Recipes and **cookbooks** in **Ruby** scripting. Hands-on experience in bootstrapping the nodes using **knife** and automated by testing Chef Recipes, Cookbooks with test-kitchen and chef spec Refactored **Chef** and Ops Works in **Azure** cloud environment.
* Deployed and configured **Chef** server including bootstrapping of Chef client nodes for provisioning and experience in developing Chef recipes through Knife command-line tool, customized Ruby scripts to create Chef cookbooks to manage systems configuration on Chef Server to initiate **Chef** Nodes.
* Working as Cloud Administrator on Microsoft **Azure**, involved in configuring virtual machines, storage accounts, resource groups using **ARM templates**. Worked on remote login to Virtual Machines to troubleshoot, monitor and deploy applications.
* Experienced with deployments, Maintenance and troubleshooting applications on Microsoft Cloud infrastructure **AZURE**.
* Deployed VMs as scale sets (VMSS), availability sets (AVsets), with it, the application will have the scalable ability to grow up or contract as per the needs.
* Deploying and managing applications in **Docker, Kubernetes, Jenkins** and storing the artifacts in **Artifactory** for various on-premises and microservice applications.
* Expertise in building **Jenkins** jobs to create **Azure** Infrastructure by pulling **Terraform** code from **GitHub** repositories, ability to work closely with teams, to ensure high quality, timely delivery of builds & releases.
* Experience in Administration/Maintenance of Source Control Management Systems such as **Git** and Sub Version (SVN). Created tags and branches, fixed merge issues and administered software repositories.
* Knowledge in migrating on-premises applications to **Azure**and configured VNETsand subnets as per the project requirement also performed PowerShellscripting to do Patching, Imaging**,** and Deployments in **Azure.**
* Worked in an **Agile** development team to delivered end to end CICD product in an open-source environment using tools like Chef.
* Experienced in working on DevOps /Agile operations process and tools area (Code review, unit test automation, Build & Release automation Environment, Incident and Change Management) including various tools.
* Expert with Installation of Linux and Windows OS such as **RHEL 5.x/6.x/7, CentOS, SUSE** Linux, Ubuntu. Installed RHEL using Kick start with Pre-Installation & Post-Installation Scripts, PXE & Azure Templates.
* Configuring and Administering NFS, DNS, NIS, DHCP, NIS+ and LDAP on Linux server environment. Knowledge of networking concepts (**DNS, TCP/IP, UDP, HTTP, SSH, OSI** layers, Client/Server architecture and Firewalls).
* Automated the Continuous Build process, monitored, maintained, and controlled software configurations in secured distributed environment.
* Troubleshooting issues on Ansible, Red Hat satellite servers, **Chef** and **Azure** portal. Resizing the servers and adding storage on cloud servers through **PowerShell** and **Azure** portal.
* Experience in Debugging APIs using **Splunk logs** and made performance analysis through **AppDynamics** and **Nagios** for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Proficient working with **NAS, SAN** and **DAS** storage architectures. Have experience in migrating storage from other storage architectures on to SAN.
* Expertise in file system concepts **LVM, SVM, VxVM**. Creating new file systems, increasing and decreasing file systems, mounting file systems, unmounting file systems and troubleshooting Disk space issues. Efficiency in installing, configuring and implementing the RAID Technologies using various tools like VxVM and SVM.

**Technical Skills**

|  |  |
| --- | --- |
| Cloud | AWS, Microsoft Azure, Rackspace |
| **Operating Systems** | Sun Solaris 11/10, Red Hat Linux 5.x/6.x/7 SUSE 10/11/12, Ubuntu, OEL, CentOS |
| **Hardware** | Sun Ultra Enterprise Servers (E3500, E4500, E450, E420R, E250) Sun Fire(6800/4800/3800/v880/v480/ v210/v440/280R/15K/25K), Sun Workstations (Ultra 5, 10,20,Blade 100,150,2000),SunstorEDGEA1000 and D1000, HP 9000 series , IBM RS/6000, p Series, x Series, Dell (R710, R720, R510, R910), IBM Blade |
| **DevOps** | Chef, Puppet, Jenkins, Vagrant, Docker, Kubernetes |
| **Web Application** | Tomcat, Apache, WebSphere, JBoss |
| **Databases/Languages** | Oracle, DB2, MySQL, Cassandra, MongoDB, SQL 2008/2012/2014, Shell, Perl, Ruby |
| **Backup Management** | VERITAS Netback up 4.x/5.x/6.x, Solstice Disk Suite, tar, dd, cpio |
| **Software** | VERITAS Volume Manager 3.x/4.x,WinSCP, FTP, SSL, VERITAS Cluster Services, Cisco CNR, Send mail |

**Professional Experience**

Walgreens Co. (Deerfield, IL)

**Senior Cloud Engineer**

Mar 2016 - Present

* Working as Cloud Administrator on Microsoft **Azure**, involved in configuring virtual machines, storage accounts, resource groups using ARM templates. Worked on remote login to Virtual Machines to troubleshoot, monitor and deploy applications.
* Implemented **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).
* Managed **Azure** Infrastructure **Azure** Web Roles, Worker Roles, VM Role, **Azure SQL**, Azure Storage, **Azure AD** licenses, virtual machines Backup and Recover from a Recovery Services Vault using Azure **PowerShell** and Azure Portal.
* Implemented **Jenkins** jobs to create **Azure** Infrastructure from **GitHub** repositories containing **Terraform** code and created on-premises active directory authentication using automation with ansible play books.
* Deployed and configured **Chef** server including bootstrapping of **Chef** client nodes for provisioning and experience in developing Chef recipes through **Knife** command-line tool, customized Ruby scripts to create **Chef cookbooks** to manage systems configuration on **Chef Server** to initiate **Chef Nodes**.
* Automated the Migration of the **Jenkins** server and moving the jobs from **SCM Git** and resolve conflicts related to merging of source code for **GIT** and further configuring with **SonarQube** to test the quality and analyze the bug fixes.
* Automate manual tasks involved in server builds and server modifications using **Ansible playbooks**. Used **Ansible** to manage configuration within the Linux servers, install and configure services using cookbooks and playbooks as part of automation.
* Configured **Ansible Playbooks** using **Python** to manage **Azure** environments and automate the build process for core services used by all application deployments.
* Worked with Windows **AZURE**(IaaS) migrating like creating **AZURE** VMs, storage accounts, VHDs, storage pools, migrating on premise servers to AZURE and creating availability sets in AZURE. Deployed VMs as scale sets (VMSS), availability sets (AVsets), with it, the application will have the scalable ability to grow up or contract as per the needs.
* Involved in creating and managing multiple instances of **Apache Tomcat** and deployed several test applications in those instances for **QA environment**.
* Wrote **Python** Scripts to Monitor Variety of Services & **Perl** Scripts with Hash/Arrays to Insert/Delete/Modify content in multiple servers. Wrote **Python** and **Shell** scripts to monitor installed enterprise applications and to get information from the logs and database in the required format and other daily activities and jobs.
* Configured **CI/CD** system with **Jenkins** on **Kubernetes** container environment, utilizing **Kubernetes** and **Docker** for the runtime environment for the **CI/CD** system to build and test and deploy.
* Experience working on several **Docker**componentslike **Docker Engine, Hub, Machine, Compose** and **Docker Registry**. Created multiple Containers with Specific Run Times and Proxying using **NGINX** for Virtual Hosting Containers in Single Docker Host.
* Troubleshooting issues on **Ansible**, Red Hat satellite servers, Chef and Azure portal. Resizing the servers and adding storage on cloud servers through **PowerShell** and **Azure** portal.
* Worked with **JIRA** for creating Projects, assigning permissions to users and groups for the projects & Created Mail handlers and notification Schemes for **JIRA**.
* Installation of **Redhat Linux**, Kickstart Installation through SATELLITE Server, Installed and configured Efficiently managed Disk and File system through Veritas Volume Manager, Logical Volume.
* Using **vmstat, iostat, SAR, tnsping & netstat** to determine the system and network health. Performing failover and integrity test on new Red hat servers before rolling out to production.

JNIT Technologies (Dallas, TX)

**Linux Administrator**

Jul 2015 – Feb 2016

* Configured Red Hat Kick-start for installing multiple production servers, worked on installation, configuration and maintenance **Debian/Red hat, CentOS** and **Suse** Servers at multiple Data Centers.
* Installed/Configured/Managed **Puppet** Master/Agent. Wrote custom Modules and Manifests, downloaded pre-written modules from puppet-forge. Upgrading/migrating Puppet Community and Enterprise. Used **Puppet** for Monitoring system and automation.
* Experience in migration of consumer data from one production server to another production server over the network with the help of **Bash** and **Perl** scripting.
* Installed and configured monitoring tools **Nagios** for monitoring the network bandwidth and the hard drives status.
* Developed automation scripting in **Python** (core) using **Puppet** to deploy and manage **Java** applications across Linux servers.
* Worked on Version controller like **GIT** and integration tools: **Jenkins;** logged events from forced crash dumps and troubleshoot server issues.
* Deploy and monitor scalable infrastructure on **Amazon web services (AWS)** & configuration management using **puppet**.
* Installed Fuse to mount the keys on every **Debian** Production Server for password-less authentication. Installed and configured DHCP server to give IP leases to production servers.
* Management of RedHat Linux user accounts, groups, directories and file permissions. Configured yum repository server for installing packages from a centralized server. Applied the Clustering Topology that meets High Availability and Failover requirement for performance and functionality.
* Installation, Configuration and administration of DNS, LDAP, NFS, NIS, NIS+ and Sendmail on Red hat Linux/Debian Servers.
* Performance monitoring using Sar, Iostat, VMstat and MPstaton servers and also logged to munin monitoring tool for graphical view. Performed Disk management with the help of LVM (Logical Volume Manager).
* Installation and configuration of **PostgreSQL** database on RedHat/Debian Servers. Configuration and Administration of **Apache** Web Server and SSL.
* Developed **Cron jobs** and **Shell** Scripts (**Shell, Python**) for automating administration tasks like file system management, process management, backup and restore.
* Worked on **FTP** servers for sending and receiving files between local and remote servers. Configured Open-source tools like Nagios, Cacti, OSSEC, Zabbix, Centreon for Monitoring.
* Provide the support of building the server, patching, user administration tasks, deployment, software installation, performance tuning and troubleshooting and KVM.
* Provided **24/7** on call support on Linux Production Servers. Responsible for maintaining security on Red hat Linux.

**Education**

Masters in Computer Science

*New York Institute of Technology*

Westbury, NY

Bachelors in Computer Science & Engineering

*JNTU*

Hyderabad, India