**Deewakar Jaiswal**

**Azure Engineer**

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**Professional Summary:**

* 7+ years of experience in **Build and Release** and **DevOps Engineering** in Automating, Deploying and Releasing of code.
* Created **SCM** Process, Policies, Procedures, and Release Notes to follow Development and allow **SQA** teams to Release or deploy highest quality product for the enterprise.
* Experience on migrating applications to **Amazon Web Services**.
* Worked on **SDLC** Methodologies like **Agile, Waterfall** and other processes.
* Experience with Continuous Integration Tools like **Jenkins, Hudson, Bamboo.**
* Extensively experienced in using **Build** and **Automation** tools like **Ant, Maven, Gradle** and working knowledge other build tools like **MS Build.**
* Experienced in Provisioning of IAAS & PAAS Virtual Machines and Web\Worker roles on Microsoft Azure Classic and Azure Resource Manager.
* Administered and Implemented **CI tools Hudson/Jenkins, Bamboo,Visual Studio, Team Foundation Server (TFS) and Anthill Pro, Fortify**for automated builds**.**
* Good knowledge in **IIS** and hands on experience with **WebSphere, JBoss** and **WebLogic** deployments.
* Expertise in **DevOps, Release Engineering, Configuration** Management, **Cloud Infrastructure, Automation.**
* Experience in several **AWS** services **EC2, VPC, S3,** Cloud Watch, Auto scaling configurations and Elastic Load Balancer.
* Good working experience in **Azure Logic apps, Service Bus, Document DB and SQL Database.**
* Used scripting languages like **Python, PowerShell, Ruby, Perl, Bash** and configuration management tools **Chef, Puppet,** Atlassian.
* Installed and Configured **- NFS, NIS, DNS, Mail Server, Apache Web Server** on **Linux,** and **Solaris**.
* Experience in setting up Baselines, Branching, Merging and **Automation Processes** using **Shell/bash** and Batch Scripts.
* Experience in building and deploying **Java & SOA** applications and troubleshooting the build and deploy failures.
* Experience using **Nagios** and Graphite monitoring system.
* Experience in **Load balancing, DNS, SSL,** and **firewalls**.
* Experience in **RDBMS** such as **Oracle, PL/SQL, and MY SQL by** using **SQL** for **Data integrity**.
* Worked with different **Bug Tracking** Tools like **Remedy**, **Jira, ServiceNow** and **Clear Quest.**
* Ability in development and execution of **XML, Shell** Scripts, and **Perl** Scripts.

***Technical Skills*:**

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| ***Operating Systems*** | *Linux (Centos/ Redhat), WINDOWS Server* |
| ***Cloud Computing:*** | *Microsoft Azure (IAAS, PAAS, SAAS).* |
| ***Version Control Tools*** | *SVN, GitHub, Git Lab* |
| ***Programming Languages*** | *Bash, Perl, Python, Ruby* |
| ***Databases*** | *MySQL, PostGres* |
| ***Application/Web Servers*** | *WebLogic, JBoss, Apache Tomcat, Jetty, Nginx* |
| ***Build Scripting Tools*** | *Ant, Maven, Gradle* |
| ***CI/ Other Tools*** | *Jenkins, Team City, Bamboo, TFS, Gerrit, Zabbix, Yum* |
| ***Infrastructure Tools*** | *VMware, KVM, Chef, Puppet Enterprise, Foreman, Google Cloud, AWS* |

**Professional Experience:**

**American Insurance Group (AIG), Houston, TX Jan 2017-Current**

**Azure/DevOps Engineer**

***Description:*** Working as a Azure and other automation tools to achieve high availability and performance of the application. Continuously automating stuff and improving the build pipeline for the infrastructure.

***Responsibilities:***

* Deployed **Azure IaaS virtual machines (VMs)** and **Cloud services** (PaaS role instances) into secure **VNets** and subnets.
* Experienced on creating **Azure VM, Cloud Services** and Storages by using **Azure Power-Shell Script**.
* Expertise to orchestrate the data to and from **Data Lake Store using Azure Data factory**.
* Used **Azure BLOB** to access required files and **Azure Storage Queues** to communicate between related processes.
* Expertise in **Azure infrastructure management (Azure Web Roles, Worker Roles, SQL Azure, AzureStorage, Azure AD Licenses, Office365).** **Virtual Machine Backup** and Recover from a Recovery Services Vault using **Azure PowerShell** and Portal.
* Handle escalated Support tickets till closure for **MS Azure PaaS platform**. **Configured AD** connect to configure federation with on-premises **ADFS and Azure AD**.
* Integrated applications to **ADFS 2.0** and **ADFS 3.0** in order to enable seamless true single sign-on (sso) capabilities
* Deploying a **DC/OS** cluster with **ACS** and containerized applications.
* Deploying clusters, custom clusters and extending the **ACS- Engine.** **Deploy ACS** cluster into resource group using cli.
* Experience with Big Data on Azure – Data lake store, Data Factory.
* Deploying a **Linux Kubernetes Clusters with ACS** from the **Azure CLI.**
* Configured **VMs** availability sets using **Azure** portal to provide resiliency for **IaaS** based solution and scale sets using **Azure Resource Manager** to manage network traffic.
* Created **Azure Automation Assets, Graphical runbooks, PowerShell** runbooks that will automate specific tasks. Expertise in deploying **Azure AD Connect**, configuring **ADFS authentication flow, ADFS installation** using **Azure AD** Connect.
* Configured Source Control for **Azure Automation Account, Created PowerShell Runbooks** which was checked in for **source control, version history, management**, and security.
* Configured and deployed the **Operations Management Suite** (OMS) for monitoring and change tracking.
* Configured **DSC** configurations to deploy **Web Servers** to **Azure VMs**. **Configured Azure Automation DSC** configuration management to assign permissions through **RBAC**, assign nodes to proper automation accounts and **DSC** configurations, to get alerted on any changes made to nodes and their configuration.
* Configured **Azure Multi-Factor Authentication** as a part of **Azure AD Premium** to securely authenticate users.
* Deployed the initial **Azure components** like **Azure Virtual Networks**, **Azure Application Gateway, Azure Storage** and **Affinity groups**.
* Expertise in deploying **Azure AD Connect**, configuring **ADFS** authentication flow, **ADFS** installation using **Azure AD** Connect.
* Involved in designing and deploying multitude applications utilizing almost all of the **AWS** stack (Including **EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM**) focusing on high-availability, fault tolerance, and auto-scaling.
* Managing **AWS** infrastructure and automation with **CLI** and **API**. working on Inbound and **Outbound services** with automation **CHEF**.
* Deployed multiple resources simultaneously, using **CloudFormation** templates in **AWS**.
* **Templated AWS** infrastructure as a code using **Terraform** to build staging and production environments.
* Created and design the **Terraform** templates to create custom sized **VPC, NAT** subnets, for deployment of **Web applications** and databases.
* Created Shell and **Python Scripts** to automate creation of **AMI's** through preboot and bootstrapping techniques.
* Used **IAM** to create new accounts, roles and groups and engaged in enabling lambda functions for dynamic creation of Roles.
* Handled migration of on premises applications to cloud, and created resources in cloud to enable this. Used all critical **AWS** tools, used **ELBs** and **Auto-Scaling** policies for scalability, elasticity and availability. Expert in deploying of **Pivotal Cloud Foundry (PCF)** on **Azure** platform. Solving issues related to **RDP** of **Azure** infrastructure.
* Responsible for Implementation, design, architecture, and support of cloud based server and service solutions.
* Extensively used **Chef Configuration management** to deploy packages with the required build artifacts from **Artifactory** and facilitate a stable and scalable build and deploy infrastructure.
* Used Chef for application automatic deployment and provisioning to different environments.
* Deploy and monitor scalable infrastructure on **Amazon web services (AWS)** & configuration management using Chef.
* Used Ansible server and workstation to manage deployments. Experience in writing Ansible Playbooks in **YAML**.
* Used **Ansible Tower**, which provides an easy-to-use dashboard and role based access control, so that it's easier to allow individual teams access to use Ansible for their deployments.
* Created and maintained various devops related tools for the team such as provisioning scripts, deployment tools, and development and staging environments on **AWS, Rack Space** and Cloud.
* **Build Automation** and **Build Pipe Development** using **Jenkins** and **Maven.**
* Analyzed the **ANT** build projects for conversion and converting to **Maven build** projects.
* Managed the **Maven Repository** using **Nexus** tool and used the same to share the snapshots and releases of internal projects.
* Experience in using **TeamCity, Jenkins, Code Deploy** for **CI/CD pipelines**, Experience in Jenkins and **TeamCity** to automate most of the build related tasks.
* Virtualized the servers using the **Docker** for the test environments and dev-environments needs. And also, configuration automation using **Docker containers.**
* Provided consistent environment using Kubernetes for deployment scaling and load balancing to the application from dev. through production, easing the code development and deployment pipeline by implementing **Docker containerization** with multiple namespace.
* Created additional **Docker Slave Nodes** for Jenkins using custom **Docker Images** and pulled them to **ECR.** Worked on all major components of **Docker like, Docker Daemon, Hub, Images, Registry, Swarm** etc.
* Working on **GIT** for data integrity.
* Managed central repositories: **Implemented Atlassian Stash** along with **GIT** to host **GIT** central repositories for source code across products, facilitate code reviews and login audits for Security Compliance.
* Developed and maintained in-house Code review system before migrating to the lightweight code review system available in Stas
* Worked with **Red Hat OpenShift** Container Platform for **Docker** and **Kubernetes.** Used Kubernetes to manage containerized applications using its nodes, **ConfigMaps, selector**, Services and deployed application containers as Pods.
* Handled migration of on premises applications to cloud, and created resources in cloud to enable this. Used all critical **AWS** tools, used **ELBs** and **Auto-Scaling** policies for scalability, elasticity and availability.
* Modified **AWS Cloud Formation** templates to create custom sized **VPC**, subnets, **NAT** to ensure successful deployment of Web applications and database templates
* Handled large scale **RDBMS** migration through **RedShift, used Multi - AZ Deployment** in **RDS** to enable High Availability and Automatic Failover at the database tier for **MySQL** workloads.

**Environment:** AWS EC2, IAM, S3, AWS CloudWatch, Route 53, Terraform, ELK, AZURE, ANT, Maven, SVN, GIT, GITHUB, Chef, Ansible, Docker, Kubernetes, Nagios, Jenkins, JIRA, Apache HTTPD, Apache Tomcat, WebSphere, JBoss, JSON, Bash, Python, Ruby.

**Automation Engineer (DevOps/Linux) Dec 2015- Nov 2016**

**United Health Group, Basking Ridge, NJ**

**Description:**  Maintained version control system environment/hardware, software build environment, and continuous integration; QA builds; and build scripts for all products/releases. Developed automation tools, managed source code repositories and repository disaster recovery plan. Performed QA builds, and developed new build tasks/scripts, and identified and resolved build issues.

***Responsibilities***:

* Automation of configurations and management through **Puppet.**
* Creating **Amazon EC2** instances using command line calls and troubleshoot the most common problems with instances and monitor the health of **Amazon EC2** instances and other **AWS** services.
* Worked on taking regular backups for **amazon cloud** instances and setting up of environments for the application launching.
* Expertise in using Artifactory Repository Managers for Maven builds cloud-based servers like **AWS, AZURE** and **Rackspace** and on Virtualization technologies like **VMware vSphere &XEN**.
* Performed physical to virtual, Virtual to Virtual migration of servers to support the Data center migrationproject.
* Involved installing and managing different automation and monitoring tools on **Redhat Linux** like **Zabbix** and **Nagios.**
* Involved in developing the Azure Solution and Services like IaaS and PaaS.
* Installing, configuring, and administering **Jenkins** Continuous Integration tool on **Linux** machines along with adding/updating plugins such as **SVN, GIT**, **Maven, ANT,** and **Puppet.**
* Researched and implemented an **Agile** work flow for continuous integration and testing of applications using **Jenkins.**
* Used **PUPPET** for automation of repetitive processes done in **apache**, user administration, file management and managing file and directory permissions in the different environments.
* Managed SSL certificates for web and the application servers.
* Supporting **Java** based applications like **JBoss, WebLogic**&**WebSphere** and involved in **J2EE** application deployment activities.
* Wrote **Powershell** scripts for automating tasks and process for end to end automation
* Automated application deployment from **TFS** using build templates that trigger **Powershell** scripts.
* Installed and configured **SSH**&**SSL** for secured access on **Linux** Systems.
* Implemented rapid provisioning and life cycle management for **RedhatLinux** using **kickstart.**
* Wrote **Shell** scripts and **Perl** scripts for day-to-day Administration and create **Perl** scripts to automate the deployment.
* Configuring server monitoring tool **Zabbix** and monitoring the server status.
* Managing systems routine **backup**, **scheduling** jobs like disabling and enabling cron jobs, enabling system logging, network logging of servers for maintenance, performance tuning, testing.
* Performed weekly and on-call deployments of application codes onto different environments like **DEV, QA, UAT** and PROD

**Environment**: *Linux (RHEL), RedHat Satellite Server 6.x, Puppet 3.x, AmazonEC2, Apache/ Web Server, Websphere Application Servers 7.x/8.x, PostGres, Zabbix, Nagios 4.x, Jenkins,DNS, NFS, Shell Scripting, Perl Scripting.*

**DevOps / Build & Release Engineer Jan 2014-Oct 2015**

**Watcher, Mount Laurel, NJ**

**Description:** Designed, configured, implemented, automated and administered build systems, infrastructure, and environments for Continuous Integration. Troubleshoot and resolve application related issues in Team Build, worked with application teams to implement application using Build Templates.

***Responsibilities***:

* Release Engineer for a team that involved different development teams and multiple simultaneous software releases.
* Managed **SVN** repositories for branching, merging, and tagging.
* Developed **Shell/Perl** Scripts for Automation purpose.
* Implemented multi-tier application provisioning in **OpenStack cloud**, integrating it with **Chef/Puppet.**
* Responsible for designing and deploying best **SCM** processes and procedures.
* Worked closely with Software Developers and **DevOps** to **debug** software and system problems.
* Created scripts in **Python** which integrated with **Amazon API** to control instance operations.
* Designing and implementing fully automated server build management, monitoring and deployment by Using Technologies like **Chef**.
* Used **Puppet** to automate Configuration management.
* Used **Puppet** to manage Web Applications, Config Files, Database, Commands, Users **Mount** Points, packages.
* Used **AnthillPro** for Continuous Integration, build Pipelines and build Management.
* Used uDeploy to integrate with multiple build systems and to provide an application model handling multiple projects or "components".
* Maintained and coordinated environment configuration, controls, code integrity, and code conflict resolution.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using **GIT** source control.
* Analyze and resolve conflicts related to merging of source code for **GIT.**
* Used **Jenkins** for Continuous Integration and deployment into **Tomcat** application server.
* Supported and developed tools for Integration, Automated Testing, and Release Management.
* Involved in Research of the project application architecture to support/resolve Build, Compile, and Test issues/problems.

**Environment**: *.NET, Windows, Ant, Maven, Nagios, Subversion, Chef, Puppet, PowerShell, ORM, Open Stack, Shell/Perl, Python, SCM, GIT, CVS, TFS, Jenkins, MS Build, Tomcat, Bamboo, Jira, Oracle.*

**System Admin June 2010-Dec 2013**

**Agni Inc. - Kathmandu, Nepal**

***Responsibilities:***

* Installation of VMware ESX 5.0 /5.1 server, Installation and configuration of virtual center database and installation of VMware infrastructure virtual machine.
* Installation and configuration of VMs using templates and cloning and managed using resource pools.
* Migrate Physical Servers to Virtual Server using VMware Converter (P2V Converter).
* Involved in live migration of Virtual Machines and Virtual machines files using the VMotion& Storage VMotion.
* Handled the VMware solutions to support multiple storage connectivity options such as FC-SAN, iSCSI, NFS (NAS) and internal storage.
* Creation & Troubleshooting of Virtual Network in ESXi&Virtual Machines.
* Creation of templates from VMs and deploying VMs from templates.
* Administer for windows server 2003, 2008 R2& all related server services including FTP, AD, DNS, DHCP & VPN. Creating a test Environment in VM Machines for Production Team to test their applications.
* Monitor several physical servers with SCOM and SCCM 2007 and HP insight manager.
* Experience with data center hosting web sites maintaining application servers.
* Providing users with access rights and permission for accessing the applications.
* Installing and updating the windows patches.
* Coordination/implementation of hardware and software installations and upgrades.
* Performance and capacity monitoring and management.
* Weekly server maintenance planning and coordination. Monitor and act on problem tickets.