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**KAMAL**

**Senior Azure DevOps Engineer**

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**Professional Summary**



A competent professional with **11+** years of experience with **Cloud DevOps Engineer** as an **Azure DevOps Engineer** and different domains in technology. Projects completed successfully with quality products and delivered on time within budget.

* Good knowledge of Cloud services integration among **Infrastructure as a Service (IaaS) and Platform as a Services (PaaS) and Software as a Service (SaaS).**
* Expertise in Architecting and Implementing Azure Service Offering, such as **Azure cloud services**, **Azure storage**, **IIS**, **Azure Active Directory** (AD), **Azure Resource Manager** (ARM), **Azure Storage**, **Azure Blob Storage**, **Azure VMs**, **SQL Database**, **Azure Functions**, **Azure Service Fabric**, **Azure Monitor**, and **Azure Service Bus**.
* Hands on experience on Backup and restore Azure services and in Design and configure **Azure Virtual Networks** (VNet), **subnets**, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.
* Experience in **Resource** **tagging** and assigning **policies** for the Subscription level & Resource Group level.
* Experience in Azure Role-based access control policy (**RBAC**) with support for Azure Active Directory
* Experience in provisioning new resources using Azure Resource Manager templates (**ARM Template**) and **Terraform.**
* Experience in automating day-to-day activities by using Windows **PowerShell** and **Azure CL**.
* Experience filtering network traffic with a **Network Security Group** and route network traffic with a route table using the Azure portal.
* Experience in Setting up Application Tier, Build Controllers, Build Agents in Azure DevOps Services | Azure DevOps Server 2019 | TFS 2018 | TFS 2017 | TFS 2015 | TFS 2013.
* Set up different kinds of **Build** **triggers** including – **Gated** –**Checking**, **Continuous** **Integration**, and Rolling Builds in **Azure DevOps Server** and **VSTS**
* Designed **Cloud Formation** templates to create custom sized **VPC, subnets, NAT** to ensure successful deployment of Web applications and database templates.
* Strong in preparing the Release documents to **QA & Production** Environments
* Implemented a complete automated build-release solution using a combination of technologies like **Maven, TFS, Jenkins**
* Experience in setting up CICD pipeline integrating various tools with Jenkins to build and run **Terraform** jobs to create infrastructure in **Azure.**
* Proficiency in using **Docker Hub**, **Docker Engine**, **Docker images**, **Docker Weave**, **Docker Compose**, **Docker Swarm** , and **Docker Registry** and used containerization to make applications platform when moved into different environments.
* Proficient in creating **Docker images using Docker File**, worked on Docker container snapshots, removing images, and managing Docker volumes and implemented Docker automation solution for CI/CD model.
* Involvement in developing APIs using **Kubernetes** to manage and specify the copies of the **containers** to run the actual servers in the cloud environment.
* Scheduled, deployed, and managed container replicas onto a node cluster using **Kubernetes** and deployed **Docker containers** through Kubernetes to manage the microservices using its Nodes, Pods, ConfigMaps, Selectors, Services.
* Ability to **quickly adapt to different project environments**, work in teams and accomplish difficult tasks independently within time frame.
* A **good team player with excellent written and verbal communication** skills.
* Excellent **problem-solving skills** with a strong technical background and good interpersonal skills.

**Technical Skills**:



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| --- | --- |
| **Public & Private Cloud Technologies** | Microsoft Azure, Amazon Web Services (AWS), Google Cloud Platform (GCP) |
| **Containerization Tools** | Docker, Docker Swarm, Kubernetes, AWS ECS, Apache Mesos, OpenShift |
| **Configuration Management** | Chef, Ansible, Puppet, Salt Stack, Terraform |
| **CI/CD Tools** | Azure DevOps Services | Azure DevOps Server 2019 | TFS 2018 | TFS 2017 | TFS 2015 | TFS 2013, Jenkins, Bamboo, GitLab CI, Travis CI |
| **Build & Testing Tools** | Maven, Ant, Gradle, Travis CI, Bamboo, TeamCity, CircleCI, |
| **Version Control Tools** | Git, TFVC (Team Foundation Version Control), SVN |
| **Performing/Monitoring & Bug Tracking Tools** | ELK, Nagios, CloudWatch, Azure Monitor, New Relic, Splunk, Grafana, Prometheus, Confluence, Jira, VMware ESXI, Vagrant, KVM, Windows Hyper V, Power VM, vSphere 5Citrix |
| **Web Servers** | Apache Tomcat, Nginx, WebSphere, WebLogic, JBoss, Samba, SQL Server |
| **Databases** | Dynamo DB, MySQL, RDBMS, NoSQL, Cassandra, PostgreSQL, Mongo DB, Oracle DB |
| **IDE Tools** | MS Visual Studio, NetBeans, Eclipse, IntelliJ IDEA, PyCharm, Oracle SQL Developer |
| **Networking/Protocols** | DNS, DHCP, FTP/TFTP, NFS, SMTP, TCP/IP, NIS, HTTP/HTTPS, WAN, LAN, Palo Alto, Cisco Routers/Switches |
| **Scripting/Programming Languages** | C#, YAML, Bash, PowerShell |
| **Operating Systems** | Windows, UNIX, LINUX, Red hat, CentOS |

**Role: Azure DevOps Engineer Oct 2023 – Till Date**

**Client: Santander Consumer USA**

**Accomplishments:**

* + Implemented **CI/CD pipelines using Yaml Templates** in Azure DevOps for artifact migration deployments in different environments.
  + Implemented **APIGEE CI/CD pipeline** setup, configuration management, and assisted developtment team for any issues.
  + Spearheaded the artifact migration of **legacy to new semantic** CI/CD processes to Azure DevOps.
  + Diagnosed and resolved build failures and deployment issues in **Azure DevOps** pipelines.
  + Utilized Azure DevOps built-in **debugging** tools and features, such as pipeline logs, test results, and diagnostic data, to **troubleshoot** and resolve issues efficiently.
  + Collaborated with development teams to debug and fix code-related issues that affected pipeline stability and performance.
  + Resolved issues related to pipeline configuration, such as **incorrect YAML syntax**, missing dependencies, and misconfigured environment variables.
  + Led an initiative to improve the stability and reliability of Azure DevOps pipelines, resulting in a decrease in build failures and deployment issues.
  + Managed and **configured user access and permissions** in Azure DevOps to ensure secure and controlled access to projects, repositories, and pipelines.
  + Configured **branch policies** in Azure DevOps to enforce code quality standards, such as mandatory pull request reviews, build validation, and code coverage requirements.
  + Set up new repository in ADO and initialized repositories for new projects, ensuring proper organization and alignment with best practices.
  + Worked on branch creation and maintenance tasks in Azure DevOps ensuring consistency across projects.
  + Implemented naming conventions and guidelines for branches and repositories to promote clarity and consistency within development teams.
  + Integrated **Fortify** for static code analysis in the CI/CD pipeline, ensuring early detection and remediation of security vulnerabilities in the codebase.
  + Implemented security best practices and compliance checks using Fortify, enhancing the overall security posture of applications.
  + Configured and managed **Nexus Sonatype repositories** for artifact storage and distribution, ensuring efficient and secure management of build artifacts.
  + Integrated Nexus with CI/CD pipelines to streamline the artifact management process, enabling automated version control and artifact deployment.
  + Integrated Fortify for static code analysis in the CI/CD pipeline, ensuring early detection and remediation of security vulnerabilities in the codebase.
  + Implemented security best practices and compliance checks using Fortify, enhancing the overall security posture of applications.
  + Configured and managed **Nexus Sonatype** repositories for artifact storage and distribution, ensuring efficient and secure management of build artifacts.
  + Integrated Nexus with CI/CD pipelines to streamline **the artifact management process**, enabling automated version control and artifact deployment.

**Environment**: ADO, Terraform, PowerShell, Git, Docker, TFS, VSTS.

**Role: Azure DevOps Engineer**

**Client: CHUBB, Jersey City, NJ July 2021 – Sept 2023**

Chubb is the world's largest publicly traded property & casualty insurance company, serving consumers & companies of all sizes.

**Accomplishments:**

* Deployed **Azure IaaS virtual machines (VM**s) and Cloud service (PaaS role Instances) into secure **VNets** and subnets using **PowerShell**.
* Automated the **Azure DevOps Service Connection** password rotations using PowerShell.
* Automated Azure resources provisioning using **Terraform**.
* Deploying **CI/CD system using Azure DevOps on Kubernetes** container environment, and for the runtime environment of CI/CD system to build, test, and deployment have been utilized.
* Using Shared Image Gallery to store the created Images and built **Azure pipelines in Azure DevOps** to implement all these services in **Azure**.
* Automated the provisioning of **self-hosted agents in ADO** using Packer and terraform scripts.
* Actively manage, improve, and monitor cloud infrastructure on Azure including patches, and **auto scaling**.
* **Configured CI/CD Pipelines** as Code with YAML in Azure DevOps.
* Created a Continuous delivery process to include support **building of Docker images** and publish into a private repository-Nexus V3.
* Developed the **yml files** to integrate the code scanning tools like SonarQube.
* Coded **Groovy domain classes** to handle business logic.
* Added **Groovy composers and Views** to the project.
* Automated the end-to-end application life cycle using **Azure DevOps CI/CD** (Build, Test, and Publish)
* Worked on **publishing the NuGet packages** to multiple artifact locations like Azure Artifacts, and NuGet org.
* Worked on publishing the **PowerShell artifacts** to a PowerShell Gallery
* Automated the artifact **signing process using PowerShell modules** and some internal tools.
* Collaborate with the internal teams to provide technical assistance and content were applicable.

**Environment**: Azure, Office 365, Terraform, PowerShell, Git, Docker, VSTS.

**Client: Microsoft, Bellevue, WA January 2021 – June 2021**

**Role: Azure Cloud DevOps Engineer**

Microsoft Corporation is an American multinational technology corporation. Microsoft's best-known software products are the Windows line of operating systems, the Microsoft Office suite, and the Internet Explorer and Edge web browsers.

**Accomplishments**:

* Worked on configuring **Windows Azure IaaS** - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, Traffic Manager, VPN, Load Balancing, Application Gateways, and Auto-Scaling.
* Work with application teams to identify necessary **Azure resources and automate** their provisioning using ARM Templates, PowerShell and Terraform scripts.
* Developed **PowerShell scripts, master, and child configuration templates** to automate multi environment deployments.
* Create plan for **Resource Groups and resource naming** as per the company’s standard policy.
* Managed servers on the **Microsoft Azure Cloud Platform** (Azure Virtual Machine) instances using Ansible Configuration Management.
* Major focus on **Configuration, SCM, Build/Release Management**, Infrastructure as a code (IAC) and as Azure DevOps operations Production and cross platform environments.
* Created **Ansible manifests, profiles, and roles** modules to automate system operations.
* Experience in **migrating on premises to Windows Azure** and build Azure Disaster Recovery Environment and Azure backups from scratch using PowerShell script.
* Hands on experience with **creating build and release pipelines using VSTS**.
* Modify the application **config files using JSON variables** and substitute the config file secrets with Azure Key Vault secrets within the VSTS release pipeline.
* Involved in the **analysis and troubleshooting of issues** which are tracked through VSTS.
* Experience in **migrating on premises to Windows Azure** and build Azure Disaster Recovery Environment and Azure backups from scratch using PowerShell script.
* Setup **Hybrid connections between Azure cloud resources** and on-premises SQL databases.
* Automated the process **of installation, configuration of the Azure Resources** using Azure Power Shell scripts and VSTS tasks.

**Environment**: Azure, PCF, Office 365, Terraform, Maven, Jenkins, Ansible, Azure ARM, Azure AD, Azure Site Recovery, Kubernetes, Python, Ruby, XML, Shell Scripting, PowerShell, Nexus, JFrog Artifactory, Jenkins, Git, Jira, GitHub, Ansible, Docker, Windows Server, TFS, VSTS, LDAP.

**Client: Ryder System Inc., Miami, FL October 2019 – December 2020**

**Role: Azure DevOps Engineer**

Ryder is an American transportation and logistics company. It is known for its fleet of commercial rental trucks. Ryder specializes in fleet management, supply chain management, and transportation management.

**Accomplishments**:

* Worked in highly collaborative operations team to streamline the process of implementing security **Confidential Azure cloud environment** and introduced best practices for remediation.
* Gathering the requirements from the clients about the existing applications to apply the security measures.
* Create a plan for **Resource Groups and resource naming** as per the company’s standard policy.
* Created **validating and reviewing solutions** and effort estimate of converting existing workloads from classic to ARM based Azure Cloud Environment.
* Developed **automation scripts using PowerShell, Azure CLI, ARM Templates and Terraform** to remediate the Azure services.
* Worked on **TFVC to maintain source code** and repositories.
* **Configure 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 and managed Azure Active Directory, Office 365, and applied upgrades on a regular basis.
* Implemented **automation for deployments by using YAML scripts** for massive builds and releases.
* Used tools like **Visual Studio Community Edition, Visual Studio Code, Power Shell ISE, and SQL** Server Management Studio.
* Acted as a build and release engineer to deploy the services by **VSTS (Azure DevOps) pipeline**.
* Assigned **RBAC Roles using Organization Active Directory Subscription Level** to grant accesses only to required members based on Least-Access Privileges.
* Collaborated with cross functional teams (Network team, and Application team) to identify the issues while installing or updating the build agent software versions.
* Experience in **filtering network traffic** with a Network Security Group and route network traffic with a route table using the Azure portal.
* Experience in **troubleshooting the SQL Server, Web App and Function app** connection issues on incremental deployments.
* Deploy a **DACPAC file with VSTS** (using SQL Server Data Tools) to enable continuous integration and continuous delivery for the Azure SQL Database.
* Modify the **application config files using JSON variables** and substitute the config file secrets with Azure Key Vault secrets with in the VSTS release pipeline.
* Configure **azure cognitive search API’s and importing the searchable data** and metadata from an external Azure data source.
* Designed and created **Dockers images using Docker files**. Hand-on experience with Docker container snapshots and managed Docker volumes.

**Environment**: Azure, PCF, Office 365, Terraform, Maven, Jenkins, Ansible, Azure ARM, Azure AD, Azure Site Recovery, Kubernetes, Python, Ruby, XML, Shell Scripting, PowerShell, Nexus, JFrog Artifactory, Jenkins, Git, Jira, GitHub, Ansible, Docker, Windows Server, TFS, VSTS, LDAP.



**Client: Microsoft, Irving, TX February 2018 – August 2019**

**Role: Azure Cloud Engineer**

Job Description: Working on product development related issues, research, investigate, and fix them with right resolution, also finding the root cause of the issue to avoid recurrences.

**Accomplishments**:

* Built good rapport by communicating well with **Global Azure** Customer and **Microsoft Partners**.
* Migrated moderate workloads from on premise to **Azure**.
* Experience sharing Product knowledge and updates with multiple teams across the world.
* Experience using **ARM templates** to deploy resources in Azure and troubleshooting the customer’s Templates.
* Experienced with deployments, Maintenance and troubleshooting applications on Microsoft Cloud infrastructure **Azure**.
* Troubleshoot and resolved bugs in **.NET applications** to ensure optimal development environment.
* Implemented Security in Web Applications using **Azure** and Deployed Web Applications to **Azure**.
* Experience creating and managing resources in **PaaS** environment as well as **troubleshooting** and fixing **PaaS** technical issues.
* Hands on experience in using **Azure Functions** and Web jobs.
* Helping customers understand the differences between **Azure Function Apps** & Web jobs by providing necessary suggestions in choosing the right resources to match their business requirements.
* Worked with **customers’ networking teams to troubleshoot** and resolve remote debugging issues.
* Detailed documentation on **Azure** product related bugs and forwarded them to **Azure** engineering team for permanent bug fixes.
* Diagnosed different technical issues in **Web Apps** developed using different languages like **C#, java, php** etc.
* Experience on monitoring **logs** of application using **Kusto queries**.
* Planning and implementing **Disaster Recovery solutions, capacity planning, data archiving, backup/recovery** strategies, Performance Analysis, and optimization.
* Executing builds and troubleshooting builds, Interaction with development and QA teams.
* Worked on **Microsoft Azure** Storage - Storage accounts, blob storage, managed and unmanaged storages
* Experience in **troubleshooting the portal issues and suggesting workarounds** until the issue is fixed.
* Created alerts and set up email notifications for various conditions such as high CPU, high Memory, 5xx errors, etc., in the App services.
* Good knowledge on **securing the App Services by using V-Nets, IP restrictions**, ASE, etc.
* Implemented **Key-Vault in Webapps, Web jobs and Function apps** to secure the secrets.
* Gained good **knowledge on App Service Environment**. Worked on internal & external - ILB ASE configuration and their management.
* Good working knowledge on resolving **SSL Certificate related issues** for **Azure Web Apps**.
* Gained experience working on **high CPU and memory related issues** for all kinds of Web Applications.
* Troubleshooted **deployment issues on all kinds of deployment methods**: zip deploy, run from zip, web deploy kudu deployments & FTP.
* Well-organized in **maintaining notes & tasks including observations** and findings for other engineers to continue work on the case.
* Always stuck to following **Microsoft internal case handling process** to address Azure customers based on business priorities.
* Resolved **Azure portal** related issues by collecting Network Traces and analyzing them.

**Client: Corvesta, Roanoke, VA March 2017 – Dec 2017**

**Role: Cloud DevOps Engineer**

Corvesta is dedicated to advancing oral health through scientific research, technology, and benefits and practice management.

**Accomplishments***:*

* Involved in designing and deploying multitude applications utilizing almost all **AWS stack (Including EC2, S3, AMI, Route53, RDS, SNS, SQS, IAM)** focusing on high-availability, fault tolerance, and AutoScaling in AWS Cloud Formation.
* Maintained the user **accounts IAM Roles, Route 53(CNAME), VPC, RDB, MongoDB, SQS & SNS** services in AWS cloud.
* Created **Python scripts to totally automate AWS services** which includes web servers, ELB, Cloud Front distribution, database, EC2 and database security groups and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Involved in creating the company's DevOps strategy in a mixed environment of Linux (Ubuntu, CentOS, RHEL) servers.
* Experience in writing **Ansible playbooks by using YAML script** to launch AWS instances and used to manage web applications, configuration files, used mount points and packages.
* Wrote **Ansible playbooks, inventories created custom playbooks written in YAML language**, encrypted the data using Ansible Vault & maintained role-based access control by using Ansible Tower & Implemented IT orchestration using Ansible to run tasks in a sequence which can work on different servers.
* Virtualized the servers using the **Docker for the test environments and development environment** and performed configuration automation using Docker containers.
* Wrote **CI/CD pipeline in Groovy scripts** to enable end to end setup of build & deployment using Cloud Bees **Jenkins and Developed an end-to-end CI/CD Pipelines** in Jenkins to retrieve code, perform tests and push build artifacts to Nexus.
* Wrote **scripts for the build, deploy, maintain using Jenkins**, Git, Maven, Python, Bash and worked on CI/CD involving Run Deck Jenkins and Ansible to complete the automation from commit to deploy.
* Wrote **Python scripts using the Boto3 library** to automatically sign up the instances in AWS EC2 and Ops Works stacks and integrated with Auto Scaling with configured AMI’s.
* Used **Git version control to manage the source code** and integrating Git with Jenkins to support build automation and integrated with Jira to monitor the commits.
* Integrated **Docker container-based test infrastructure** to Jenkins CI test flow and set up build environment integrating with Git and Jira to trigger builds using Webhooks and Slave Machines.
* Installed and **configured DHCP, DNS, web servers** like Apache, IIS, mail servers like SMTP, IMAP, POP3, and file servers on RHEL servers.
* Maintained **Jenkins continuous integration** tool using shell/Perl and ruby scripts for automating releases to different environments.

**Client: Inmar, Hyderabad, India Oct 11 – Dec 14**

**Role: Azure Engineer**

Inmar Intelligence is a leading data platform company. One hundred and twenty billion dollars of commerce runs through our market-driven platforms.

**Accomplishments***:*

* Responsible for collaborating on and setting cloud vision; involved in thought leadership in cloud infrastructure and cloud services architecture to meet operational objectives for cloud solutions.
* Involved with leadership with the ongoing development of policies and procedures for the purpose of consistent product delivery.
* Developed custom features in **Visual Studio based on specifications** and technical designs.
* Implemented **PowerShell scripts and ARM templates** to automate the provisioning and deployment process.
* Participated in **internal and customer meetings** assisting with the ongoing evolution of technology offerings.
* Knowledge of **monitoring, logging and cost management in a cloud environment** Demonstrated leadership ability using progressive technology platforms.
* Involved on **building solutions using Azure PaaS** and other services.
* Troubleshoot and **identify performance, connectivity** and other issues for the applications hosted in Azure platform.

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| **Certification/Training**  **Microsoft Specialist:** [**Microsoft Azure App Service**](https://courses.edx.org/certificates/3e29f0411ac949df85a22405f3275465)  **Azure Fundamentals (AZ-900)**  **Learning Cloud Computing: Core Concepts**  **Education:**   * **Master’s Computers and Information System from California University of Management and Sciences in 2017, United States**. * **Bachelor’s in computer sciences from Osmania University in 2011, India.**  |  |  | | --- | --- | | . |  | |  |