Aseef Ahmed

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Sr. DevOps Engineer | Sr. Cloud Architect

AWS & Redhat Certified Professional / GCP / Docker / Kubernetes / Openshift / Ansible / Linux / Python

- Red Hat And AWS Certified Engineer having more than 9+ years of overall professional IT experience and 4+ years of experience in dealing with Cloud service providers like AWS & GCP, DevOps Implementation, Build & Release engineering and Linux administration.

- Technologies used throughout my career include - AWS & GCP services | Docker | Kubernetes | Jenkins | Ansible | Linux | Git | Red Openshift | Python | PHP | MySQL | DataDog | NewRelic | Nginx | Networking and many more.

Professional Certifications

- AWS Certified SysOps Administrator – Associate   [**Verify**]
- AWS Certified Developer – Associate   [**Verify**]
- AWS Certified Solution Architect – Associate   [**Verify**]
- Red Hat Certified Engineer (RHCE)   [**Verify**]
- Red Hat Certified Specialist in Openshift Administrator   [**Verify**]
- Red Hat Certified System Administrator (RHCSA)   [**Verify**]
- Red Hat Certified Specialist in Virtualization   [**Verify**]
- Zend Certified PHP Engineer (ZCPE)   [**Verify**]

Key Skills

Amazon Web Services (AWS)	Google Cloud Platform (GCP)	Linux
Kubernetes	Openshift	Chef
Jenkins	Ansible	GitLab
Git	GitHub	Agile Methodology
DevOps	SDLC	Nginx Web Server
Python	Shell Scripting	Networking
Virtualization	Docker	PHP

CAREER REVIEW

January, 2019 – Current: Packt Publishing Ltd - DevOps Course Content Creator

- Developing video content that brings deep technical expertise to a mass audience.
- Training DevOps Engineers on different technologies such as Docker, Kubernetes, AWS, GCP, Linux, Ansible, Python, Shell Scripting, Jenkins CI/C

January, 2018 – January, 2019: CrossOver - Senior DevOps Engineer & Chief Cloud Architect

- Architected a Follow and Notify (FAN) social application in AWS using VPC, S3, Route 53, Auto-scaling, Elastic Beanstalk, SQS, SNS, RDS MySQL.
- Played a key role in evaluating, establishing and conducting proof of concepts of various API management products like 3-Scale, Nginx proxy, WSO2 API Manager etc.
- Built complete WSO2 API Manager Setup (API publisher, Key store, Gateway, Governance registry, WSO2 Carbon) in AWS environment.
- Architected a social engagement application in a short span of time that would replace current commenting application Echo. Application was designed and developed using Java/J2EE technologies with NoSQL DynamoDB as backend.
- Produced comprehensive architecture strategy for environment mapping in AWS that involved Siteminder, Scripps' AIM Application, Community Moderation Broker (CMB), Echo commenting apps etc.
- Produced a comprehensive strategy using AWS Identity and Access Management (IAM) Role for community platform systems and successfully implemented the same setting precedence for other teams to follow suit

April, 2015 – May, 2018: Fair Pattern Inc. - Senior DevOps Engineer

- Design and develop continuous deployment pipeline, integrating Test-Kitchen, Vagrant, Git, Jenkins, and Chef across geographically separated hosting zones in AWS, Azure and Google compute.
- Developed automation and deployment utilities using Ruby, Bash, Powershell, Python and Rundeck.
- Designed and developed automated deployment and scaling processes based on Vagrant and Chef for a wide range of server types and application tiers, including Elasticsearch, and Zend PHP and IIS Clusters.
- Wrote custom monitoring and integrated monitoring methods into deployment processes to develop self-healing solutions.
- Created automation and deployment templates for relational and nosql databases (standalone and RDS), including MSSQL, Mysql, MongoDB, Redis and NodeJS.

April, 2011 – Feb, 2015: Nexus IT Consultants - Senior Software Engineer

- Developed projects using MVC framework, AngularJS, Bootstrap.
- Experienced SQL programming on MS SQL Server and MySQL.
- Created Crystal Reports.
- Implemented Test Driven Development(TDD) in ASP.NET and PHP.
- Worked with Dependency Injection in ASP.NET
- Designed AWS solution such as EC2, S3, VPC.
- Had experience to work with Entity Framework.
- Went through software development life cycle with Agile methodology.
- Developed projects with HTML5, XML and CSS, AJAX, JSON , JavaScript, JQuery and other JS Frameworks.
- Wrote complex SQL queries, Stored procedures and SQL functions

February, 2008 – September, 2009: BJIT Ltd. (Bangladesh-Japan IT) - PHP Developer

● Designed and developed responsive web applications using PHP and Bootstrap for photography studio management, online social savings network and product management
● Designed and developed RESTful style web services to manipulate dynamic datasets using AJAX calls
● Created a Content Management System (CMS) which serves as an interface for clients
● Visualized large datasets for analysis that allows gaining deeper insights
● Developed rigorous test cases using RSpec to ensure bug-free code
● Deployed and supported the application code across various system servers

July, 2007 – May, 2008: Evoknow Inc. (US Based Company) - Web Developer

● Worked with a team to design and develop an interactive social studies web site, for elementary students, using Dreamweaver, CSS, Flash, HTML, JavaScript, and Photoshop
● Responsible for overall web project management from development to execution and maintenance
● Performed validation of completed sites including the debugging and testing of code
● Evaluated code to ensure that it is valid, is properly structured, meets industry standards and is compatible with browsers, devices, or operating systems.
● Modified current systems, writing and testing code
● Documented test plans, testing procedures, or test results

PROJECT HANDLED

● **Automated software delivery life cycle using CI/CD pipeline :**
  o Successfully generated a release pipeline that automates software delivery process using AWS CodePipeline.
  o Linked to a source repository resembling AWS CodeCommit to pipeline.
  o Presented automated code deployments by connecting pipeline to AWS Code Deploy.
  o Managed and plugged build service, including Jenkins with the CI/CD automation.
● **Created a build server for Continuous Integration (CI) on AWS:**
  o Introduced and presented a virtual application server to host Jenkins server using Amazon EC2. In that single-node setup, both the Jenkins server and agent run on the same Amazon EC2 instance.
  o Efficaciously installed Jenkins on Amazon EC2.
  o Configured the Jenkins with build servers in order to spin up additional Amazon EC2 instances as build servers, based on resource consumption.
● **Migrated a GIT repository from GitHub into AWS CodeCommit:**
  o Made a private Git repository using AWS CodeCommit
● **Hosted a static website in AWS (Using AWS S3, Route53 & CloudFront):**
  o Installed, arranged and configured a static website using Amazon S3. Amazon S3
  o Connected the domain name with that website using Amazon Route 53. Amazon Route 53 for describing Domain Name System (DNS) where to find that website.

- **Break a Monolith Application into Microservices:**
  - Containerize the application
  - Deploying the application into ECS cluster
  - Breaking the application into several interconnected services and push each service's image to an Amazon ECR repository
  - Deploying the application as a set of interconnected services behind an Application Load Balancer (ALB)
- **Deploy a Kubernetes Application in AWS:**
  - Launching a Python web application environment using AWS Elastic Beanstalk. Elastic Beanstalk provisions and manages the underlying infrastructure such asAmazon EC2 instances and stack components such as OS, web server, language/framework)
  - Deploy the web application using AWS Elastic Beanstalk.
- **Migrating database from Oracle to Amazon Redshift:**
  - Converting the data warehouse schema and code from an Oracle data warehouse running on Amazon Relational Database Service (Amazon RDS) using the AWS Schema Conversion Tool (AWS SCT).
  - Migrating data from the Oracle data warehouse to Amazon Redshift using the AWS Database Migration Service (AWS DMS).
  - Performing post-migration activities such as running SQL queries to validate object types, object count, and number of rows for each table between source and target data warehouses.
- **Set Up an Email-Receiving Pipeline:**
  - Set up a domain to receive email using Amazon SES
  - Saving the emails in raw format to an Amazon S3 bucket. Amazon SES saves the email to the Amazon S3 bucket in raw format, so that we can have the flexibility to process and display the email with our own application.
- **Deploy a Data Warehouse:**
  - Creating an Amazon Redshift cluster from the AWS Management Console.
  - Configuring the cluster by choosing the instance type and specifying the number of nodes.
  - Securing the cluster using AWS IAM and set it up for access.
  - Load data to the cluster from Amazon S3 after defining a schema and creating the tables.
  - Setting up SQL Workbench/J to access the data in the Amazon Redshift cluster using the Amazon Redshift JDBC driver.
  - Analyzing the data with standard SQL from SQL Workbench/J.

Trainer Experience

- North South University (NSU)
- International University of Business Agriculture & Technology (IUBAT)
- IT Bangla
- Information of Science & Technology
- Udemy
- Packt Publishing Ltd

TECHNICAL SKILLS

Cloud Experiences	: GCP and AWS
Container Orchestration Tools	: Docker, Docker Swarm, Kubernetes, Red Hat Openshift, AWS ECS
Programming Skills	: HTML5, CSS JavaScript PHP, MySQL Bootstrap WordPress Ruby on Rails C#, Python, ASP.NET, Shell Programming, Data Analysis in Python
PHP Frameworks	: Laravel, Codeigniter, Zend, CakePHP, Django, Magento
DevOps Tools	: Jenkins, Chef, Ansible, Puppet, AWS, Selenium, Datadog/New Relic, Maven, Docker
Servers	: Apache, Nginx, Tomcat
Cloud Computing (AWS)	: Elastic Cloud Compute (EC2), Simple Storage Service (S3), Cloud Formation, Relational Database Services (RDS) and many more
English Proficiency	: IELTS - 7.5
JavaScript Skills	: JQuery, React.JS, Node.JS, Angular.JS
Database Skills	: MySQL, MongoDB, SQL Server
Microsoft Office	: MS. Excel, MS. Access, MS. PowerPoint
Third Party API	: Amazon, Payment Gateways, Google, Facebook, Twitter
Operating System	: Linux, Mac, Windows
Version Control System	: Git, Github/BitBucket
Linux Server	: System Administration, Database Server, Web Server, DNS Server, Mail Server, Firewall
Project Management Tools	: Jira and Microsoft Office 2010
Graphical Tools	: Photoshop

EDUCATION

- Computer Science & Engineering (CSE), Jahangirnagar University
- Master's in Business Administration (MBA), University of Wales

Hobbies

- Learning new technologies
- Purchasing online courses focusing latest technologies
- Watching movies