**Arpit Gaur**

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***Career Abstract***

* Overall, 6.2 years of work experience with 6 years of work-experience in DevOps, having **competency of both Azure and AWS cloud,** but worked majorly on **AWS.**
* Have vast experience on **Docker containers.**
* Have vast experience on managing the infrastructure using **Terraform.**
* Have vast experience on doing CI-CD using **Azure DevOps, Jenkins, Bamboo and GitLab**.
* Have vast experience on configuration-management using **Ansible.**
* Have experience on **Kubernetes**, the leading container-orchestration tool.
* Have strong knowledge of various monitoring and alerting tools like **Prometheus, Grafana, PagerDuty** etc.

***Professional Experience* March’15- Present**

***Current Organization Details* May’20 - Present**

**Organization:** Eyeota

**Designation and Grade:** Site Reliability Engineer.

**Work:** I work both as a **DevOps engineer as well as a Site Reliability Engineer**.

As a **DevOps Engineer**, I work on modifying the **terraform scripts** and creating **ansible modules, roles and playbooks**. Under Jenkins, we have used bash script to run multiple ansible playbooks as there are some checks to be done between different playbooks.

As an **SRE** I work on a lot of other tasks too that include monitoring the health of our servers and databases using Grafana and AWS CloudWatch dashboards. I also give KTs to new joiners to help them understand the current system and flow.

Apart from the above work, my daily job also includes helping teams for any DevOps issue they face.

Eyeota is an audience technology platform that enables the intelligent use of data. Eyeota works with marketers, data owners and research companies to provide distinct, comprehensive and qualified audience data. We use a lot of DevOps tools here. Some of which I have worked on, till date, are mentioned below:

1. **Jenkins**: For running the ansible playbooks.
2. **JIRA**: For ticket creation with respect to the tasks and providing daily updates on the task. At Eyeota we use both Scrum and Agile methodology.
3. **Confluence**: For creation of documents used in knowledge-sharing and deciding project-scope.
4. **Crowd**: For providing single sign-on for various Atlassian tools.
5. **Jumpcloud**: For authentication and authorization, to manage users, devices, and applications via a common directory in the cloud.
6. **GitLab**: For source code versioning, running ci-cd etc.
7. **Slack**: For organization-internal chats using chat-rooms as well as person-to-person chats.
8. **PagerDuty**: For reporting infrastructure related problems, so that they can be fixed quickly.
9. **Prometheus**: For event monitoring and alerting.
10. **Grafana**: For visualizing the Prometheus metrics in form of detailed dashboards.
11. **Consul**: For service discovery.
12. **OpenVPN**: For accessing Eyeota VPN from outside network.
13. **Terraform**: For setting up the whole infrastructure.
14. **Ansible**: For applying configurations to our servers.
15. **EKS:** For deploying containerized services in AWS.
16. **Cloud Providers:** AWS and OpenStack.
17. **Ceph:** For managing block-devices and storing data in buckets.
18. **Databases:** PostgreSQL, Kafka and Scylla.
19. **Image Builder:** Packer

**Project**: Scylla Database Optimization

**Scope:** The project for **Database Optimization** targets working on the currently configured **Scylla Database** in order to reduce the issues being faced with respect to database features like compaction, replication etc., and also to optimize the cost. **The project is divided in two phases**. The cost optimization was taken into consideration first and hence the databases present under various regions were moved to the respective single AZ instead of multiple AZs. In the second phase, we will be doing the optimizations related to database features for which the blueprint is ready. Moreover, the new applications that use Scylla as a database have been provisioned to use the latest version of Scylla- **Scylla-4.3**. The learnings that we get while working on this version will be utilized when we would upgrade our already existing Scylla DB stack, which use **Scylla-3.0**.

**Role:** DB Infrastructure Designer, DevOps Engineer, Site Reliability Engineer.

**Project**: Kafka Migration

**Scope:** The project for **Kafka Migration** targeted working on the currently configured **Kafka cluster** and migrating the topics from on-premise servers to AWS. The migration included creating **MSK stack on AWS**, on which the topics were to be migrated. Then the migration of topics took place. The main purpose of this project was to reduce the cost that we were spending for data-transfer as some of the applications asking for data from Kafka were in AWS and some were in on-premise servers. The topics that were related to the applications on the AWS servers were transferred to MSK stack and those were deleted from the already existent on-premise Kafka stack. After that, we freed some on-premise servers and then the partition reassignment was taken care-of.

**Role:** DevOps Engineer.

**Project**: Enabling Centralized Log Monitoring using Loki

**Scope:** The project for **Centralized Log Monitoring** targets working on the having the logs of various applications and servers at a single dashboard taking Grafana Loki as the data-source. Currently we have enabled it for one of our five AWS regions, and would be gradually moving it to other regions as well. The stack has been created over EKS.

**Role:** DevOps Engineer, Site Reliability Engineer.

**Project**: Atlassian to GitLab Migration and Application-Containerization

**Scope:** The project for **Atlassian to GitLab Migration** targets decommissioning the Atlassian stack and using Gitlab instead, for storing repos as well as for all the CI and CD related stuff. Under this project, we have already done the part involving **repo-migration**. The part for CI-CD migration is being clubbed with **Application Containerization**. We have provisioned EKS and deploying the applications to the containers over EKS. Most of our applications are Java and Go applications and hence, the CI is done taking this into consideration. Once CI is completed, the applications are then deployed to **staging** namespace first and when the developers confirm, we then deploy the applications to **production**.

**Role:** DevOps Engineer.

***Previous Organization Details* March’15- May’20**

***Organization I* May’19-May’20**

**Organization:** Xoriant Solutions Pvt. Ltd.

**Designation and Grade:** Software Engineer, G2

**Project**: AtHoc

**Scope:** AtHoc, a division of BlackBerry Limited, is the pioneer and recognized leader in networked crisis communication, protecting millions of people and thousands of organizations around the world. AtHoc provides a seamless and reliable exchange of critical information among organizations, their people and devices. A trusted partner to the world’s most demanding customers, AtHoc is the leading provider to the U.S. Departments of Defense and Homeland Security, and safeguards numerous other government agencies and leading commercial enterprises.

The project has a large number of MSIs that are used to deploy the application on the servers. The project uses a lot of DevOps tools like Jenkins, JIRA, Chef, Confluence, VMWare etc. For MSI creation, we relied on WiX toolset. For scripting we used PowerShell. We were having most of our servers on VMware initially, but we migrated some to Azure cloud.

**Role:** DevOps Engineer.

**Work:** I worked in the BR team and automated the process of MSI creation as well as deployed the website on IIS on various VMs that were on VMWare vSphere earlier, but then were migrated to AWS. Also, for some of the applications (which require frequent scale up and scale down) we used Azure app service too. The deployments were done using Jenkins and were mostly taken care by the scripts written in PowerShell. The issues were maintained in JIRA and Confluence was used for keeping the architectural diagram, flow diagrams and other important project-related documents. The lighter version of Chef, i.e. Chef-solo was used for maintaining the common-state of the servers and installing the prerequisites required by the servers, like MSMQ state, IIS configurations etc., in order to deploy the application using the MSIs. The source code was maintained in GitLab and artifacts were maintained in JFrog Artifactory.

There were some POCs done for containerizing the applications using Docker and I was leading the team working on the POC due to my vast prior experience on the same.

***Organization II* November’18-April’19**

**Organization:** Nihilent Limited

**Designation and Grade:** Senior Software Engineer, G2

**Project**: Multichoice Africa-Dev Team Digital Enablement

**Scope:** Multichoice is a leading paid content provider in Africa continent. This project deals with the journey of digital enablement of Multichoice focusing towards providing state of art facility to end customers on various platforms.

The project has many applications deployed on both Azure and AWS clouds. The project also uses other DevOps tools and frameworks like TFS, Git, Azure DevOps, Docker, Kubernetes, Jenkins, etc.

**Role:** DevOps Lead

**Work:** I lead the team automating various applications, i.e., Eazy, DStv and GoTv applications used throughout Africa and South Africa, using various **AWS** and **Azure services.** The Eazy website was deployed on AWS, using **Jenkins** as the build and deployment server. Various cloud services used for the same were **CodeCommit, Opsworks, EC2, VPC, Cloudwatch, Autoscaling, ELB, EBS, IAM, Route53, Cloudfront, S3, RDS, SNS**. The deployments for DStv and GoTv were done on Azure using **Azure DevOps** as the deployment server. The cloud services used were **Azure Active Directory, Azure VMs, VM Scale Sets, Vnet, Load Balancer, Azure DNS, Application Gateway, App Service, Web Apps, AKS, ACR, Azure SQL DB, Azure Cache for Redis, Azure Cosmos DB, Content Delivery Network, Key Vault, Azure Storage**. I also managed the project-repos, artifacts, test plans, work-item’s monitoring etc. using **Azure DevOps**.For securing our applications, we were using certificates provided by **Cloudflare**, where we were maintaining our CNames, A-records etc. The Infrastructure was provisioned using **Terraform** and server configurations were done using **Ansible**.

Also, I made apresentationfor **comparing AKS with EKS** since the client decided to use Kubernetes for orchestration but was having doubts regarding which one to use between Azure cloud or AWS. The presentation included comparing both based on the usage and cost and at the end, taking all factors into consideration, we decided to move ahead with AKS.

***Organization III* March’15- November’18**

**Organization:** Cybage Softwares Private Limited

**Designation and Grade:** Software Engineer, G1

**Major Role:** DevOps Engineer

**Work:** I started my I.T. career from this organization as a developer in anguarJS, F# and C#, but very soon transited to the role of a DevOps engineer, as per the organization requirements. Here, I worked on a lot of DevOps tools and gained expertise on Cloud platforms too.

**Project**: ALM

**Role:** DevOps Engineer

**Scope:** ALM is an in-house project at Cybage that automates the application life-cycle of various Client projects at Cybage using various DevOps tools and frameworks like Karma, Jasmine, MSBuild, NUnit, OpenCover, Grunt, TFS, Gulp, Resharper, Git, Bitbucket, SourceTree, Github, Gitlab, CVS, SVN, JIRA, Confluence, Jenkins, Bamboo, Teamcity, VSTS, CCNet, Appveyor, OctopusDeploy, SonarQube, Istanbul, Mocha, Chai, Powershell, Bash, Docker, Kubernetes, AWS, Azure etc.

Under this project, I automated the application lifecycle for various projects such as Cvent\_PSRAdmin, Shortcuts\_POS, Upland-MarexFileBound, RateHighway\_Engine, FareCloud, Airtrade-API, Web, Frosch\_Apollo, MG Group.

Since we used to do some R&D work too apart from project work in order to have the know-how regarding which tool would be best-fit for the project-scenario we might get, so I made a lot of POCs too like:

1. Creating and orchestrating containers using Docker and Kubernetes.
2. Doing IaC using AWS Cloudformation and Terraform.
3. Doing configuration management using Ansible and PowerShell DSC.
4. Doing comparative study by creating demos for CI and CD using tools like Jenkins, Azure DevOps, TeamCity, OctopusDeploy etc.

**Project**: Arvato

**Role:** DevOps Engineer

**Scope:** Arvato is a project executed for Bertelsmann industries, a German industry. Its services include customer support, information technology, logistics, and finance.

This project involved creating the Web pages using JQuery and Kendo UI, and creating the .Net Web APIs to get the data from the MSSQL database. My task was .Net coding as well as automating the Web APIs’ deployments using TFS, generating the Static Code Analysis report using SonarQube, generating the code coverage report using nUnit and opencover, and publishing the same to the SonarQube dashboard.

**Project**: TheHUB

**Role:** Software Developer plus DevOps Engineer

**Scope:** The HUB is an in-house project at Cybage which is going to be sold as a product. There are various modules being developed like Information System, Leave Management System, Human Resource etc.

Under my tenure with this project, I developed F# services for getting data from the MSSQL database, manipulating it as required. I also did the front-end coding using bootstrap, angularJS and Typescript. The UI and responsiveness of the page was maintained using HTML5 and SCSS. Also, was looking into the work-item tracking, generating the code-coverage report using nUnit and opencover, and publishing the same to the SonarQube dashboard along with the static code analysis reports. Plus, I automated the Builds in TFS.

**Professional Training:**

* Industrial training in the Information Technology department of Binani Cement Ltd. (From 13/06/2011 to 26/07/2011).

**Core Skills**:

* **Programming Languages:** C, C++, F#, C#, HCL.
* **Programming Language Platforms:** .Net
* **Scripting Language:** Bash, Powershell.
* **Operating Systems** Windows 7/8/10/Server2016, Linux (Ubuntu/CentOS)
* **Cloud Frameworks:** AWS, Azure, OpenStack.
* **AWS Services:** CodeCommit, Opsworks, EC2, VPC, Cloudwatch, Autoscaling, ELB, EBS, IAM, Route53, Cloudfront, S3, RDS, Elastic Cache, EKS, ECR, SNS, API Gateway, AWS Cloudformation.
* **Azure Services:** Azure DevOps, Azure Pipelines, Azure Boards, Azure Repos, Azure Artifacts, Azure Active Directory, Azure VMs, VM Scale Sets, Vnet, Load Balancer, Azure DNS, Application Gateway, App Service, Web Apps, AKS, ACR, Azure SQL DB, Azure Cache for Redis, Azure Cosmos DB, Content Delivery Network, Key Vault, Azure Storage, ARM templates.
* **DevOps Tools/Frameworks:** MSBuild, NUnit, OpenCover, TFS, Git, Bitbucket, SourceTree, GitHub, Gitlab, JIRA, Confluence, Jenkins, Bamboo, Maven, JFrog Artifactory, SonarQube, PowerShell, Bash, Docker, Kubernetes, Chef, Ansible, Terraform, Prometheus, Grafana, PagerDuty, Consul, Ceph, Crowd, Jumpcloud, Slack, OpenVPN, .
* **Security Maintenance:** Using Cloudflare certificates.
* **Databases:** Kafka,ScyllaDB and PostgreSQL (basic knowledge).
* **Software:** Visual Studio, Visual Studio Code, MS Office, MSSQL, VMWare (basics).
* **Domain Knowledge:** AdTech,Finance, Telecom, Media & Entertainment, Travel & Hospitality.

***Academic Qualifications***

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| --- | --- | --- | --- |
| **Qualification** | **University/Board** | **Month-Year** | **Percentage/CGPA** |
| Post Graduate Diploma In Advance Computing (PGDAC) | Sunbeam Institute of Information Technology, Pune, Maharashtra, India  (Centre for Development of Advance Computing) | Aug 2014 – Feb 2015 | Grade- B |
| B.Tech (Electronics and Communication Engineering) | College of Engineering and Technology, Bikaner, Rajasthan, India  (Rajasthan Technical University) | 2008-2012 | 68.71% |
| 12th | Central Academy School, Dadabari, Kota, Rajasthan, India  (Central Board of Secondary Education) | 2006-2007 | 71.00% |
| 10th | Padma Binani D.A.V. Public School, Binanigram, District- Sirohi Rajasthan, India  (Central Board of Secondary Education) | 2004-2005 | 88.83% |

***Academic Experience***

***PGDAC Project:***

**Project Title:** ‘Online Steganography’

**Description:** Implemented over a period of3 weeks, this project is a complete security suite for the paranoid and people in the countries whose governments control Internet communication, though the government or security markets may open up at some point.

**Platform:** J2EE

**Database:** SQLServer2008

**Other software used:** Eclipse, Dreamweaver

***B.Tech. Final Year Project:***

**Project Title:** ‘PC Based Home Appliance Controller System’

**Description:** Implemented over a period of10-12 weeks, this project is a complete suite for those who are keen in controlling their home appliances through PC. The **future scope** of this project is to use voice recognition (or DTMF) to control our house by this method (**Smart House**).

**Platform:** .Net

**Hardware:** DB25 Parallel Port Connector (found at the rear panel of the PC)

**Other software used:** Visual Studio

**Extra-curricular:**

* Stood 2nd in Essay Writing competition during the event ‘Aaroh-09’.
* Was the event manager for the event “Enigma'10”.
* Won in debate & group discussions at school & college level.
* Took active participation in various other activities in school, college and corporate level such as drama, skit, singing, Olympiads etc.
* Was part of Cybage Men's Basketball team that won the Life-Rocks Basketball tournament in the year 2015.
* Took active participation in social service and events like de-addiction drive, blood donation camp etc. for Cybage Asha and Cybage Khushboo.
* Hosting shows and events, part-time, all over Pune.

**Declaration:**

I declare that the details furnished above are true to the best of my knowledge.

Date: SIGNATURE

Place: Arpit Gaur