

Pedro Juarez | Engineer | Cloud Engineer

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WORK EXPERIENCE

Min.io
Engineer

Redwood, CA
Jun 2022 – Present

MinIO is the Open source, software defined, high performance Object Storage company.

In MinIO growth is a constant, here as a Cloud Engineer I've been focused on keep clients MinIO setups on Kubernetes in their different flavors like AWS EKS, OpenShift and AWS EC2 instances stable up and running in high scale deployments, worked on development of features and tools for orchestration such as MinIO Kubernetes Operator, as well providing counselling, troubleshooting and support both public community and enterprise customers.

In MinIO I have been building the different Operators in Opensource and private code for Enterprise.

As a solutions architect addressed frequent asked questions from clients providing deep dive guides for public private cloud MinIO use cases.

I was maintaining public cloud marketplace Offerings such as [AWS Marketplace](#) and [Red Hat Marketplace](#).

Worked in automating activities as proportioning IaC setups using Kubernetes resources manifests, kustomizations, Cloudformation templates to run workloads on AWS, also setup CI/CD GitHub actions to build, test, release and publish different MinIO products.

In security role I designed and developed an Identity Access Management Integration between Kubernetes and MinIO called PolicyBinding, in a nutshell PolicyBinding maps a Kubernetes Service account to be assigned a MinIO Policy, this brings the advantages of make authorization Infrastructure as Code friendly and Kubernetes native, as well enhance security by allowing Kubernetes containers to run credential-less access to MinIO, here is the docs of this implementation <https://github.com/minio/operator/blob/master/docs/STS.md> and some how-to examples here <https://github.com/minio/operator/tree/master/examples/kustomization/sts-example>

Encryption in traffic and encryption in rest is a top priority for data storing systems such as MinIO, my role as a TLS and encryption specialist have been to implement features that simplify the TLS certificates lifecycle and make sure the Operators are CertManager compatible.

For encryption at-rest ensured encryption tools like Hashicorp vault, AWS Secrets manager, the home made KES and KMS servers are properly configured for the Object Store services.

As the go-to person to understand troubleshoot and support production environments I understand the sensibility of this activity and had the privilege to attend and help many talented and smart engineers with this specific use case across the globe.

Working on Opensource has been very exciting, with a high amount of activity from both community and enterprises, a fast pace environment brings great opportunities to develop skills, and this has been great so far.

Some of the tools and technologies I used in MinIO are AWS, Cloudformation, Golang, Python, Kubernetes, Helm, Javascript, Typescript, GitHub actions, Openshift Container platform, Docker among others.

CBT Nuggets
Tech Lead / DevOps Lead

Eugene, OR
Sep 2021 – Jun 2022

CBT Nuggets, is on-demand IT Training platform with a "learners first" philosophy.

- Lead a team of Mexico based DevOps.
- Lead the Information security initiatives:
 - Security incident response plan
 - Application security
- Plan, design and manage migration of Front end layer (CDN, monitoring, support, etc) from Akamai to AWS.
- Design, plan and implement the migration of the logging and monitoring strategy for the org, (ELK cluster, Grafana & Graphite, Datadog)
- Support the web delivery layer performance and security (Akamai CDN, WAF, firewall, and incident response).
- Migrate the gateway web entry layer, creating a domain specific transformation language (DSL) to control Nginx configuration.
- Worked on the migration of a monolithic application to microservices with the strangler pattern.
- Design and implemented a multi-account AWS solution together with my other DevOps peers.
- Participate in the on-call rotations, as a first responder and later in postmortem triage.
- Worked on the root cause analysis for incidents.
- Develop and maintain a series of tools to self-heal infrastructure and monitoring/alerting like chatbots, PagerDuty, DataDog monitoring, etc.

Tools: AWS, Python, Nodejs, Akamai, Cloudfront, Datadog, ELK, etc. CMS/Openforce, Javascript, Typescript, CDK.

Tiempo Development

Guadalajara, MX
Nov 2016 – Aug 2021

Tiempo Development is a nearshore consultancy company based on Mexico, here quickly moved across different customers, listed below:

As a DevOps Lead at CBT Nuggets I had same activities as the section before, except that in this case as nearshore employee until 2021 that was invited to join the Organization in headquarters.

DevOps at Driver Ready is an application to hire and evaluate truck drivers, every state and organization varies in rules and business constraints, so this app is a business rule engine/social network.

Here I was the DevOps engineer, among other activities worked on:

- Created the infrastructure (IaC), CI/CD.
- Containerized Java microservices.

Tools: Java-vertx, Docker, AWS, Cloud formation, EC2, ECS, RDS, Jenkins, bitbucket, consul.

Mission point/ZenPO it's a software suite for non-profit organizations, it provides web design/publish, documents (spreadsheets, docs), file share, e-commerce store and some other features, it was born as a microservice application targeting Amazon web services Elastic container services.

Here as the principal DevOps engineer worked on:

- Created the gitlab-jenkins-aws CI/CD
- Containerize php microservices.
- Designed infrastructure and control it in an Infrastructure-as-code approach using Cloudformation, shell scripts, Ansible and Makefile.
- Mentor team members in the involved cloud technologies.
- Tools: PHP Laravel, Docker, AWS, Cloud formation, Ansible, EC2, ECS, RDS, Jenkins, gitlab.

Dextra Technologies
Senior .Net Software Engineer

Guadalajara, MX
Nov 2015 – Aug 2016

JJ Keller is a transport services company, they offer a set of products for the transportation management in the US, including several SAAS products.

I played the roles of Software developer, Business analyst and technical team leader for the client and software development under the Scrum methodology.

- As software developer I delivered quality code that achieves the user story requirements with deliverables as TSQL Scripts, C# MVC, asp.Net Web Forms applications, code, etc.
- As business analyst I take the work of understand the PO history and break it down into smaller pieces that can be understand by any stakeholder, also have to find any discrepancy or lack of information that can deliver to an incomplete story that doesn't meet the DoR (Definition of ready) and definition of done (DoD).
- As technical leader of the 4 members team supported the developers, look for the tools, paths, document pieces, etc, all of the required instruments to facilitate their work.

Tools: C#, ASP.NET MVC, jQuery, WCF, SQL Server, ASP.NET Webforms, Jenkins.

HSL

Senior .Net Software Engineer

Guadalajara, MX

2014 – 2015

Here as software developer for the customer Esurance I worked on web solutions to manage the insurance policy creation from the sales agent perspective, some of the activities are:

- Analyze and break down business requirements.
- Perform technical Design definitions based on Business Requirements. Follow design and coding standards.

Tools: C# and ADO.NET, SQL Server XML.

Unosquare

Senior Software Engineer

Guadalajara, MX

2012 – 2014

In this company I've developed many technical and soft skills.

AS A. Net Software developer primarily, but many others projects involved Java web applications, php, Azure, AWS, etc.

I've worked on many projects, some of them with the team lead role, some others as project manager, and the most as developer.

Experience here is wide, covering more than 7 projects. I worked on e-commerce, retail, gift cards, CRM, etc with clients such as TangoCard, Arrow Direct, Columbia, The Medicines Company, etc.

Tools: .NET C#, NHibernate, Entity Framework, Syncfusion controls, Log4Net, MVC, WCF, Web Forms, Win Forms, PHP, Magento, JavaScript, Knockout, jQuery, CSS, MySQL, Git, SVN, MongoDB, AngularJS, Bootstrap, Azure (Web Roles, Worker Roles, SQL Azure, storage, etc), Active Directory, etc.

IBM

Software Developer

Guadalajara, MX

2012

As software developer in IBM I've worked in Build a minor enhancements and support features to change an internal IBM Website creating an automation test tool over a Desktop interface., some of the performed tasks are: Build Automation tool which enables programmed automated test running GUI based on SWT API selenium based test cases coded in Java.

Tools: Selenium, Eclipse, JWT

PUBLICATIONS AND BLOGPOSTS

<https://blog.min.io/install-minio-amazon-eks/>
<https://blog.min.io/expose-minio-eks/>
<https://blog.min.io/expose-minio-aws-eks-elastic-load-balancers/>
<https://github.com/minio/wiki/wiki/Tenant-certificate-issued-by-Kubernetes-CSR>

EDUCATION

Universidad Tecnológica de León/ Universidad Interactiva y a Distancia del estado de Guanajuato (UNIDEG)
León Guanajuato, México

Computing Systems Engineer

SKILLS

Kubernetes | Amazon Web Services | Solution Architecture | Go (Programming Language) | Software Development
|.NET | Javascript | Java | jQuery | ASP.Net | Scrum | PHP | Json | JSP | UML | Rest | Continuous Integration |
PostgreSQL

COURSES, CERTIFICATES AND CONFERENCES

2019 - AWS re:invent conference

2018 - AWS re:invent conference

2018 – Earned AWS Solutions Architect: Associate certified

(<https://www.certmetrics.com/amazon/public/badge.aspx?i=1&t=c&d=2018-11-27&ci=AWS00624883>)

2015 - Scrum Master Certified by Scrum Study

2008 Object Oriented Analysis and Design With UML

2008 - Visual Studio 2008: Windows Communication Foundation

2007 - Five Stars Development (Microsoft .NET)