

Getting better organization of my workload from one account to multi-account with AWS organization

Executive summary

Zíro is a technology company building a game-changing financial ecosystem for the retail industry. Through his platform, B2B, marketplace, wholesalers, and manufacturers can offer inventory loans to small retailers, this provides an increase in the conversion and the average value of transactions, providing a decrease in logistics and credit collection costs.

His value proposition will allow:

- Payment flexibility.
- Reduce credit costs and save time for logistics.
- Develop a platform that is easy to use and 100% digital.
- Enhance client satisfaction and help supply your customers' business.

The challenge

The main challenge that had to be faced in this project was to create the strategy through AWS Organizations for the organization of the workload that was maintained in the root account, in addition to providing security to the infrastructure by implementing a three-layer design.

In addition to freeing the root account from the workload, it was recommended to downgrade the instances they used for their databases, as this represented a high cost within the project.

Why AWS?

The combination of AWS Organizations and AWS CloudFormation offers customers a powerful way to manage their cloud infrastructure centrally, ensure security and compliance, control costs, and automate the deployment and management of AWS resources.

About Costumer



Figure 1 - Zíro Logo

Zíro is designed to create solutions for small retailers, thus creating an easy-to-use financial ecosystem for everyone who needs to supply their business.

"Your easy, fast, and secure credit!"



“AWS Organizations and Control Tower.”

AWS Control Tower offers a straightforward way to set up and govern an AWS multi-account environment, following prescriptive best practices. AWS Control Tower orchestration extends the capabilities of AWS Organizations. AWS Control Tower applies preventive and detective controls (guardrails) to help keep your organizations and accounts from divergence from best practices (drift).

The Solution

AWS Organizations is an account management service that enables you to consolidate multiple AWS accounts into an organization that you create and centrally manage. AWS Organizations includes account management and consolidated billing capabilities that enable you to better meet the budgetary, security, and compliance needs of your business.

AWS Organizations and Control Tower allowed us to have better organization and account management where we had an account that Ziro used as the main account but according to AWS best practices, a new account was created to act as the main account and the previous account passed to be the production account.

The production account has credits, when joining it to the new organization a process must be followed so that the credits can continue to be used, we will do all this in the main account which is where the billing is consolidated, we must have shared use of AWS credits in the billing preferences section, the billing cycle begins on the first day of each month, which is advisable to join the account to the organization a day before to avoid charges and be able to take advantage of the credits.

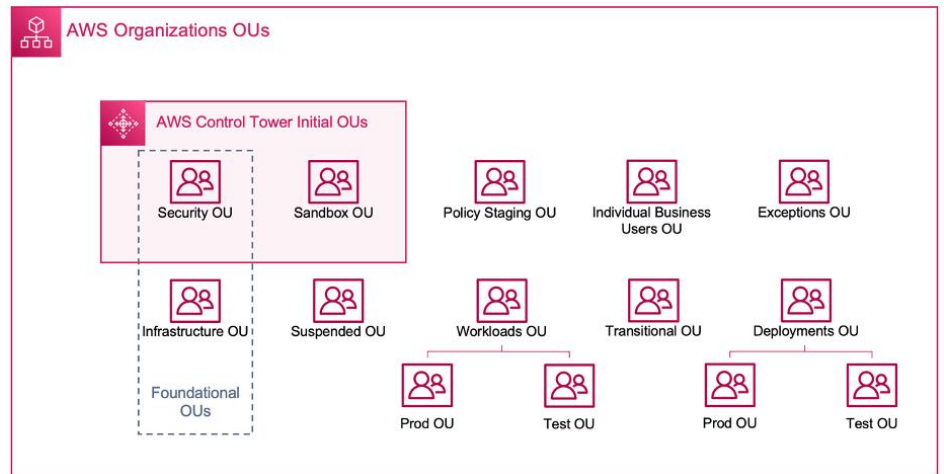


Figure 2 – AWS Organizations and Control Tower Architecture Example.

Best features of AWS Organizations and Control Tower

- **Centralized management**
- **Policy enforcement**
- **Account provisioning**
- **Automated deployment**
- **Continuous improvement**
- **Cost management**
- **Security and compliance**

Results and Benefits

AWS Organizations and AWS Control Tower offer a comprehensive set of features for managing and governing AWS environments at scale. By leveraging these services, organizations can improve security, compliance, cost management, and operational efficiency across their AWS accounts and workloads.

Additionally, it allowed us to implement a strategy to go from account to multi-account in an organized and secure manner.

Centralized management

AWS Organizations and AWS Control Tower provide centralized management for AWS accounts. Organizations create an account hierarchy for resource management. Control Tower sets up multi-account environments with best practices and guardrails.

Account provisioning

AWS Control Tower simplifies AWS account setup by ensuring conformity to organizational standards and best practices.

Security and Compliance

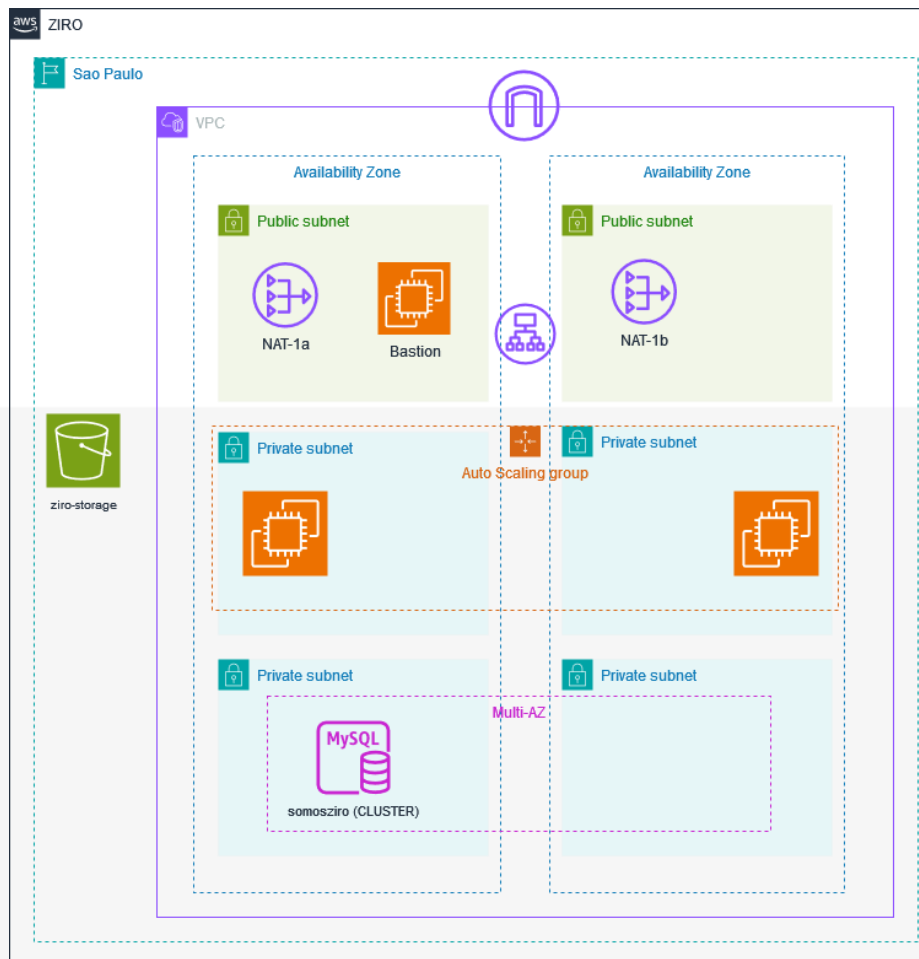
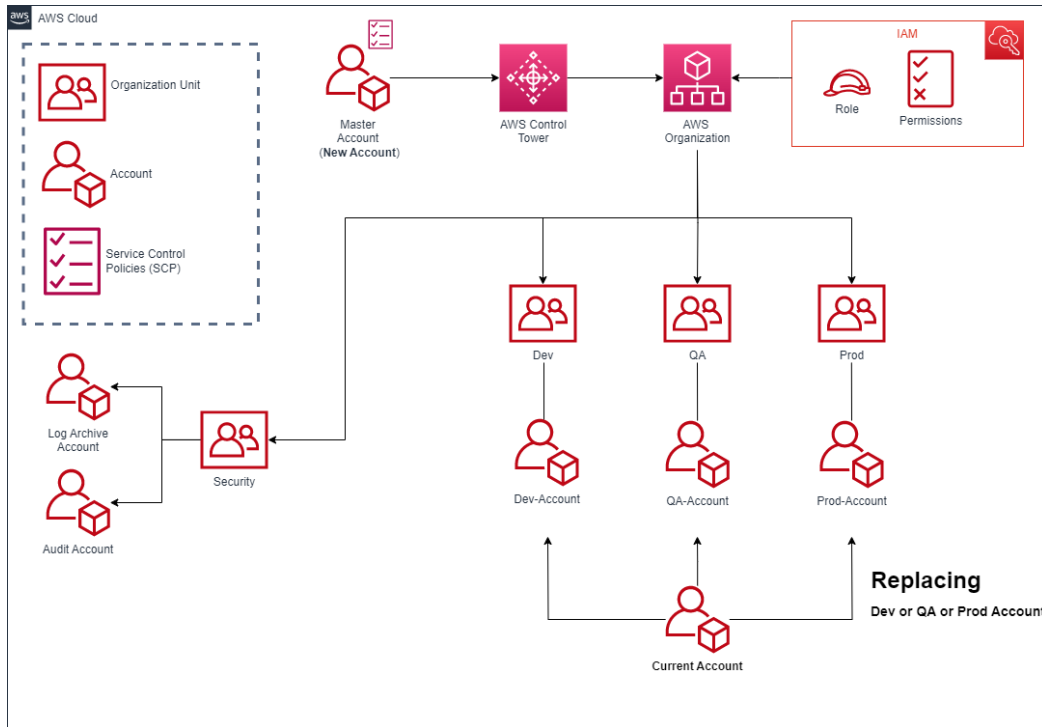
AWS Organizations and AWS Control Tower improve security and compliance by enforcing policies, managing access controls, and implementing security best practices across all accounts. AWS Control Tower offers AWS SSO integration, IAM permissions management, and automated compliance checks.

Cost management

AWS Control Tower provides cost management tools like budgeting, dashboards, and cost allocation tagging. This helps organizations control their AWS expenses by centralizing cost management and implementing best practices.



Ziro multi-account architecture



Next Steps

For **Ziro**, this project allowed them to make considerable savings according to the resources they use, in addition to providing security and best practices with AWS Organizations and AWS Control Tower, so much so that they consider creating more environments in which they can manage their tests and developments.



Centralized management

The solution provides the best benefits of working with these services, which refer to a hierarchy of accounts, security barriers and the use of good



Reduce Costs

Saving money by better knowing the scope of your project and making good decisions when choosing the best service.



Security and Compliance

This solution offers AWS SSO integration, automated compliance verification, and access controls to ensure compliance with policies.

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About IO Connect Services



IO Connect Services is a company specializing in Information Technology Consultancy Services. All our team members have one thing in common: our enthusiasm for technology and our passion for customer service excellence. We provide services in all North America, LATAM and Europe. Our headquarters are in NYC metropolitan area, and we also have offices in Guadalajara, Mexico and Madrid, Spain.

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