

Client's Application Infrastructure Assessment Report

Executive Summary:

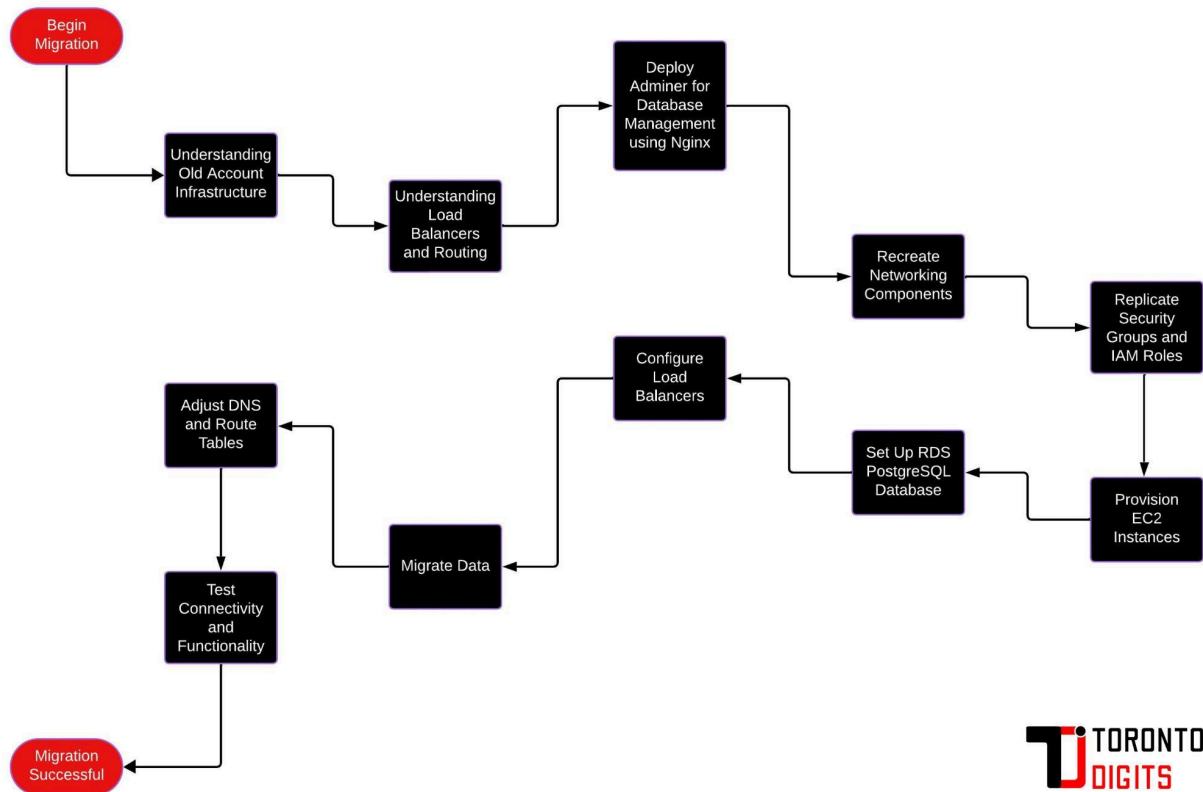
This report presents the assessment and migration plan for transferring the client's application infrastructure from an old AWS account to a new one. The process encompasses understanding the existing infrastructure, replicating networking components, provisioning new instances, setting up databases, configuring load balancers, migrating data, and testing the new infrastructure.

Application Overview:

The client's application is hosted on Amazon Web Services (AWS) and comprises various components, including backend and frontend EC2 instances, RDS PostgreSQL for the database, load balancers, networking components (VPC, subnets, route tables), security groups, volumes, network interfaces, internet gateway, elastic IP, and IAM roles.

Assessment Steps:

- 1. Understanding Old Account Infrastructure:** Reviewed the architecture and components of the existing infrastructure in the old AWS account.
- 2. Understanding Load Balancers and Routing:** Analyzed the configuration of load balancers and their routing to the backend servers.
- 3. Hosting Adminer using Nginx:** Deployed Adminer for database management via Nginx on the appropriate server.



Migration Plan:

1. **Recreate Networking Components:** Set up VPC, subnets, route tables, internet gateway, and other necessary networking components in the new AWS account.
2. **Replicate Security Groups and IAM Roles:** Created security groups and IAM roles to replicate permissions and access control policies.
3. **Provision of EC2 Instances:** Launched new EC2 instances for the backend and front end, ensuring proper configuration.
4. **Set Up RDS PostgreSQL Database:** Deployed a new RDS PostgreSQL instance with proper configuration and accessibility.
5. **Configure Load Balancers:** Set up load balancers for high availability and distributed traffic management.

6. **Migrate Data:** Dumped data from the old RDS and restored it to the new one.
7. **Adjust DNS and Route Tables:** Updated DNS records and route tables to direct traffic to the new infrastructure.
8. **Test Connectivity and Functionality:** Verified the functionality and connectivity of the new infrastructure.
9. **Prepare Assessment Report and Migration Plan:** Compiled the assessment report and migration plan.

Conclusion:

The migration plan outlines a systematic approach to transfer the client's application infrastructure to a new AWS account. Following this workflow will ensure a smooth transition with minimal disruption and maintain the integrity of the application.