

FishTank PETRA Cloud Migration

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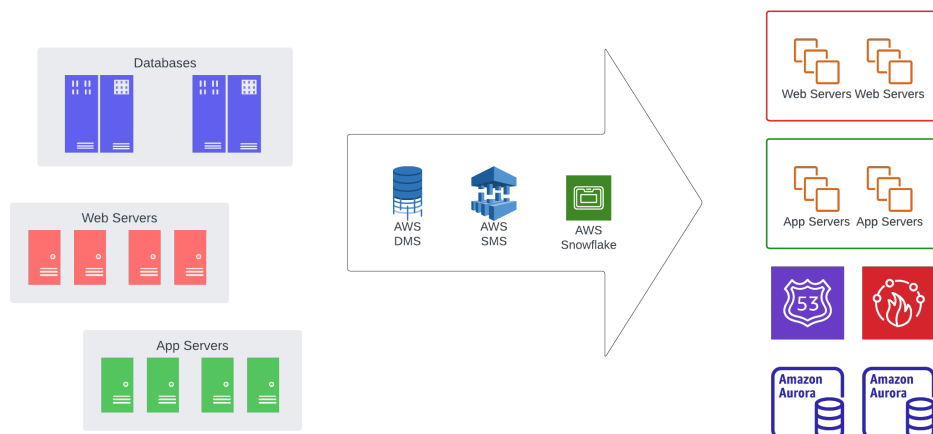
Introduction

In this proposal I aim to clearly outline a plan for FishTank to migrate their web application PETRA from an in-house data centre onto the cloud. Also, I aim to clearly display the AWS cloud architecture PETRA will utilise once fully migrated. Finally, included is a break down of what this will cost, to migrate and to run for 1 month.

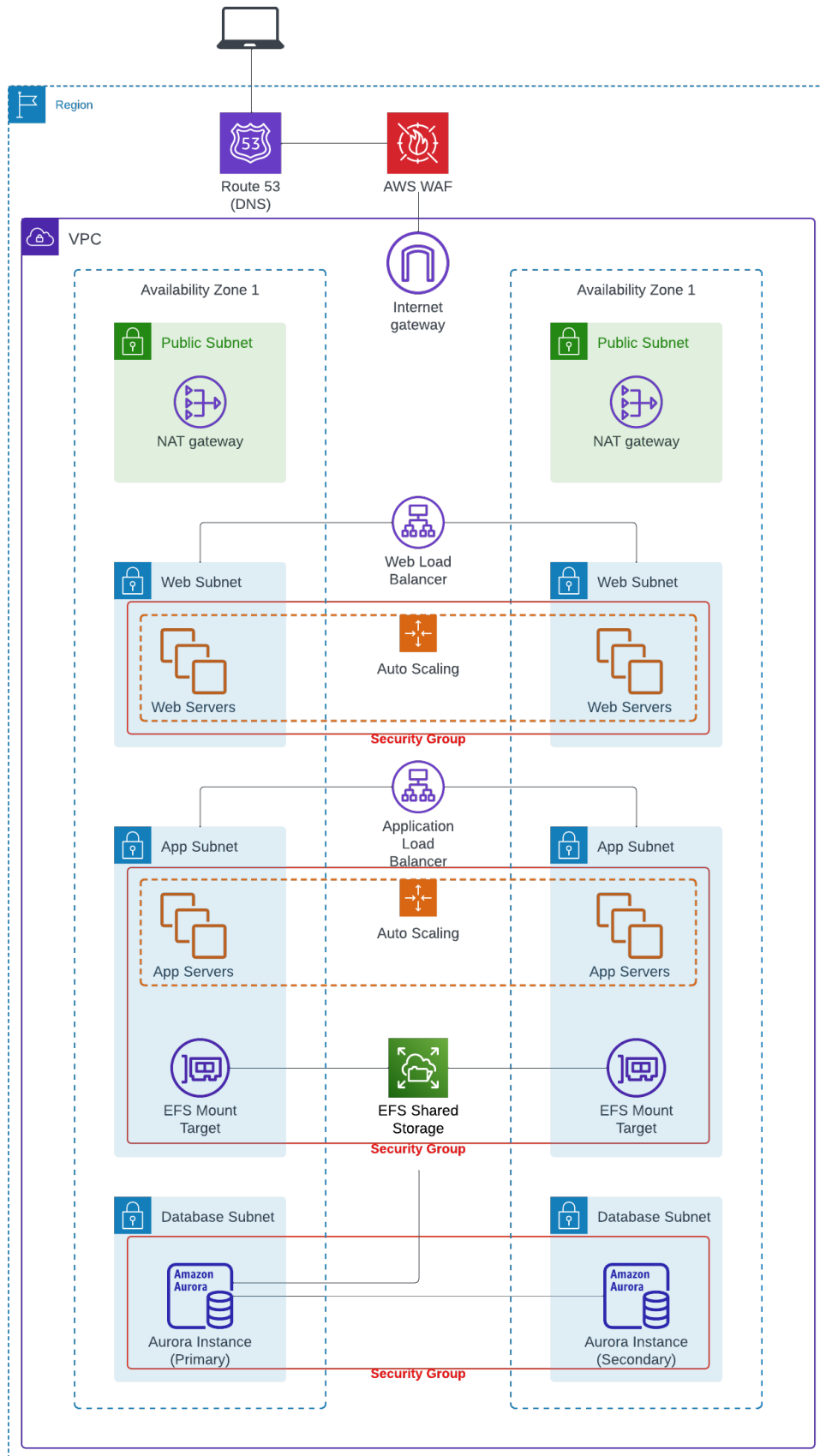
Migration Plan

The first step will be for the cloud consultant to examine PETRA's IT portfolio. With this the cloud consultant and business analyst will be able to devise a detailed plan for the new cloud infrastructure that will host PETRA. Then, a detailed plan for how the databases and servers will be migrated. The plan will look as follows:

1. **Transfer the data from the databases onto the cloud:** The database migration engineer will work with AWS Database Migration Service to facilitate the transfer. This will involve using Amazon Snowflake, connecting to the databases and uploading, and then shipping the Snowflake safely to the Amazon data centre necessary.
2. **Transfer the web and app servers onto the cloud:** This process will be facilitated by the server migration engineer who will use the AWS Server Migration Service. This service combines data collection tools with automated server replication. AWS SMS will enable FishTank to schedule and track incremental replications of live server volumes. Because of the incremental replications, the migration will be quick and server downtime will be minimized.
3. **Organise cloud infrastructure:** The solution architect will organise the cloud infrastructure, using the AWS Console, as designed by the cloud consultant. And, the solution architect will program the AWS Web Application Firewall to replicate the functionality of the firewalls FishTank has provided. Also, the solution architect will utilise security groups and Network ACLs to provide security measures outlined by FishTank IT.



PETRA AWS Infrastructure



Pricing

	Description	Price
Migration	Buisness Analyst (15 days)	£ 6,000.00
	Cloud Consultant (15 days)	£ 30,000.00
	Solution Architect (15 days)	£ 15,000.00
	Server Migration Engineer (15 days)	£ 9,750.00
	Database Migration Engineer (15 days)	£ 11,250.00
	AWS Database Migration Service	£ 15,700.00
Running cost(1month)	Amazon Aurora DB X2	£ 8,000.00
	Amazon EC2 instances	£ 18,400.00
	Amazon Route 53	£ 2,500.00
	Amazon WAF	£ 500.00
	Application Load Balancers	£ 40.00
	Amazon VPC	£ 10,000.00
	Total Cost	£ 127,140.00