AzureAnonymous

A Summer of Azure '22 real-world project
in collaboration with Cotiss.com

An Honest-Feedback website built on Microsoft Azure

Brought to you by Chris Chong

Special thanks to NextWork

WARNING

This application is EXTREMELY basic.

Some viewers might find this upsetting.

You have been warned.

Agenda

- Introduction

- Lessons learnt

- Requirements

- Network architecture and costs

- Demo time!

Introduction

This project focuses on learning how to:

1. Design, configure, and implement the infrastructure and application from the ground up

2. Build the simplest and cleanest version of the application from scratch, but with healthy documentation and version control basics setup

3. Setup a database and create a script that allows it to talk to the application – Something that I've personally wanted to learn for a while now

4. Try and understand a little more about costs – What can be skimped on, and where money is best spent

Lessons Learnt - The Good

- Much clearer understanding of networking and application development
    - Design
    - Hosting
    - Security
- Learned how Azure can help manage infrastructures and platforms on our behalf, and how much that saves us

Lessons Learnt - The Bad

1. Sticking to the bare basics is HARD

   - Tutorials immediately jumped to serverless app development

   - Me - Compulsive human who likes to complicate and build in fancy things

2. Azure bill-shock

The bright side:
Building discipline, not allowing project scope creep, cost management

Lessons Learnt - The Horrendous

- Tight deadlines – 2 weeks!!

- Work – Ransomware attack nightmare

More glass half full-ing:
Learnt heaps in an extremely short timeframe, more security-minded, ability to gauge the necessity of security for this application

App Functionality Requirements

End User

- Access the application from any browser

- Submit their feedback anonymously

- Randomly view other reviews whenever they refresh the page/hit a button

**Company**

- Be able to view all feedback provided

Non-Functional Requirements

- Needs to appear trustworthy and professional

- Kept stylistically consistent with Cotiss' company branding so that it's recognizable and trusted

- Minimalistic design with simple design elements and layout

- Be as lightweight as possible*

* Note: The application produced is an MVP and has yet to be optimized for minimizing calls to the database.
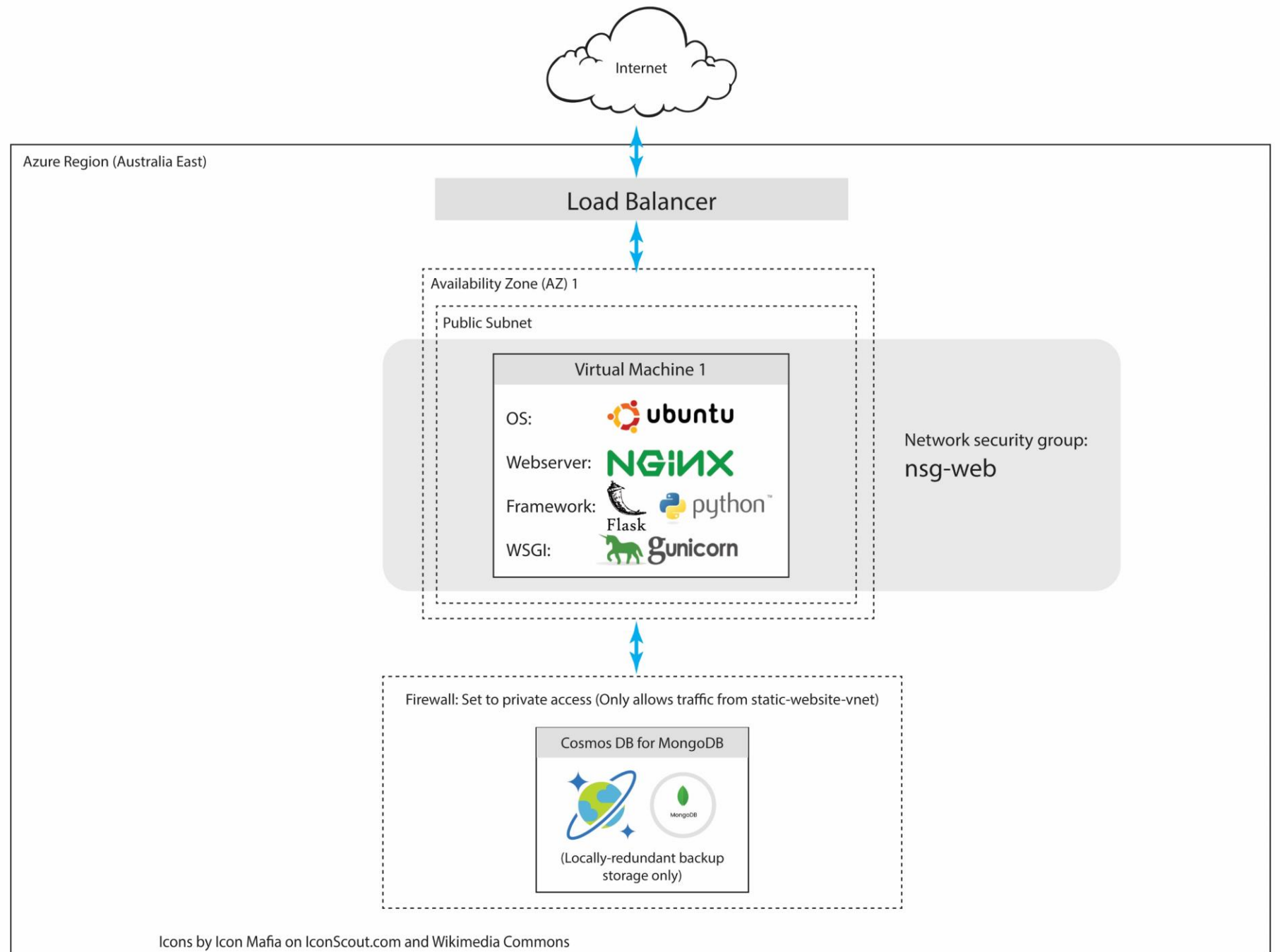
Network architecture design and costs
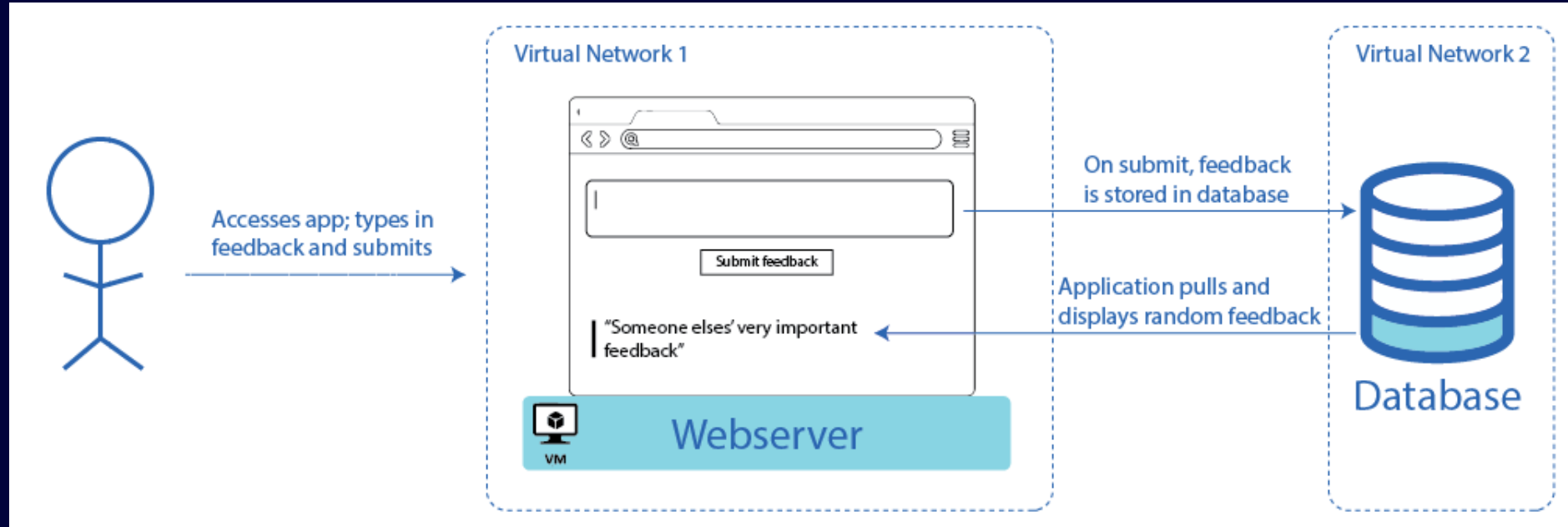
Bare Basics

Network architecture design and costs
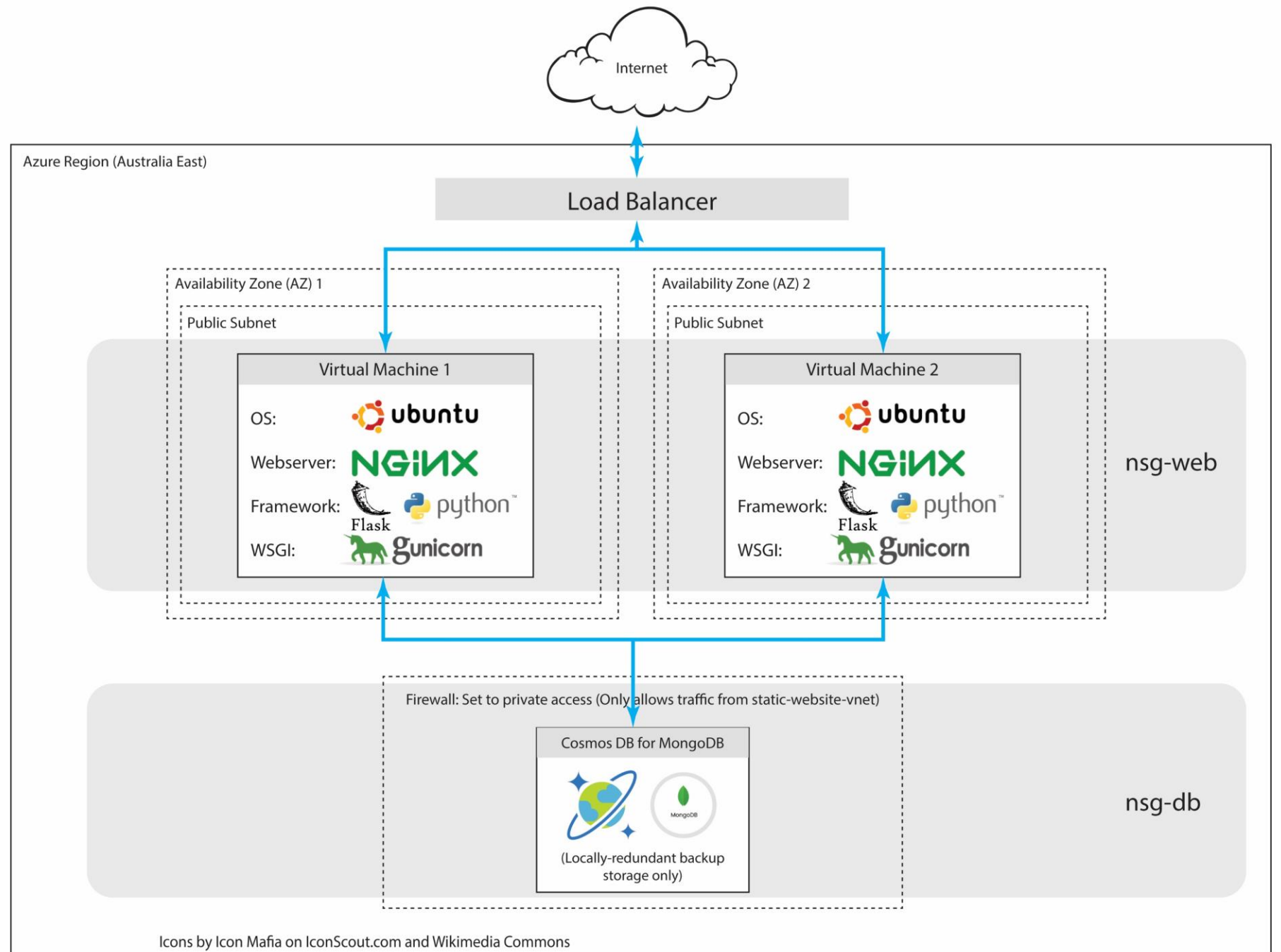
Bare Basics

~$35/month

Network architecture
design and costs

Design for
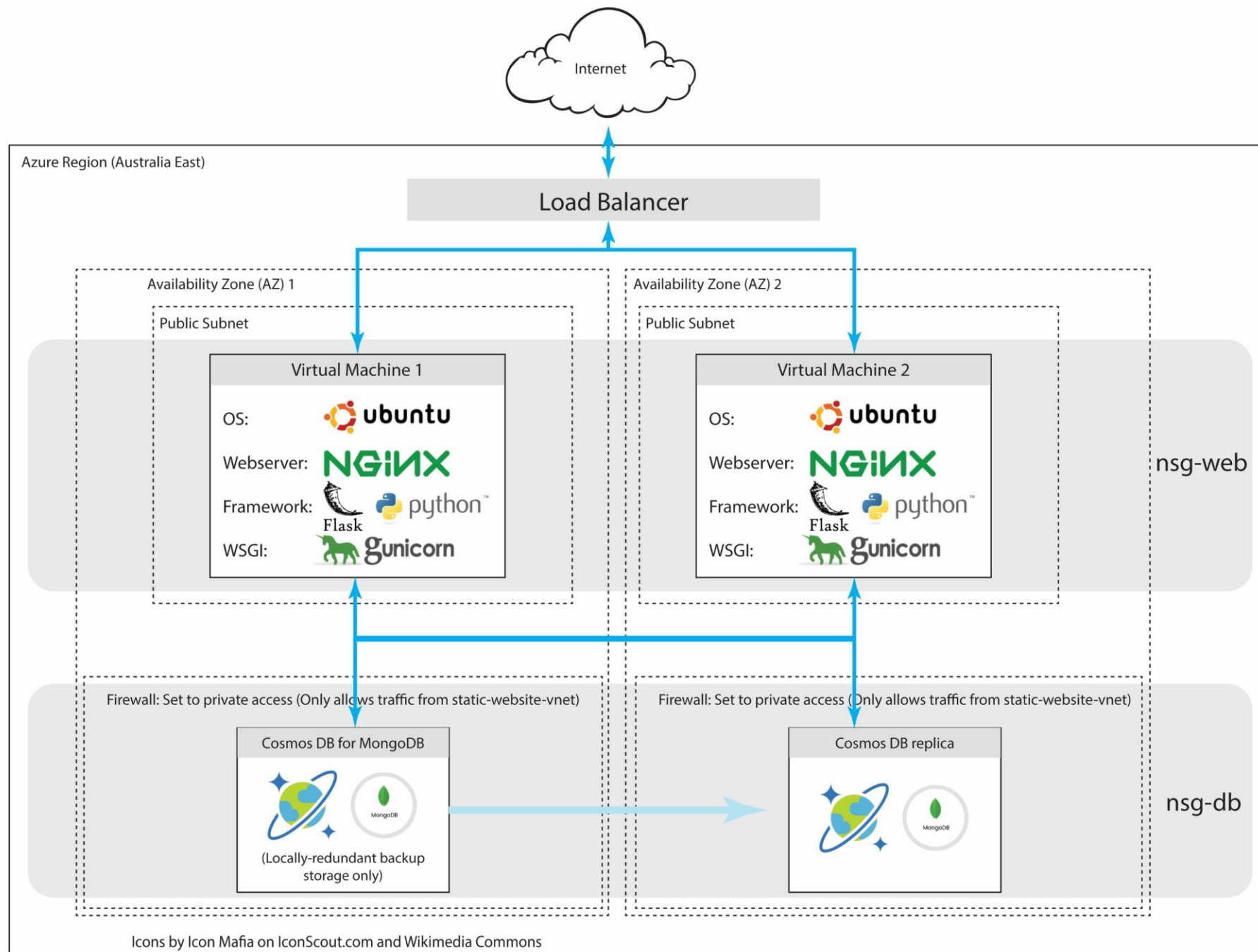# Minimum Costs

*~$68.14/month
pay-as-you-go (PAYG)*

*Note: If this is a low volume
application and is shifted to
serverless Database
Operations, there is the
potential for database costs
to drop significantly.*

Network architecture design and costs
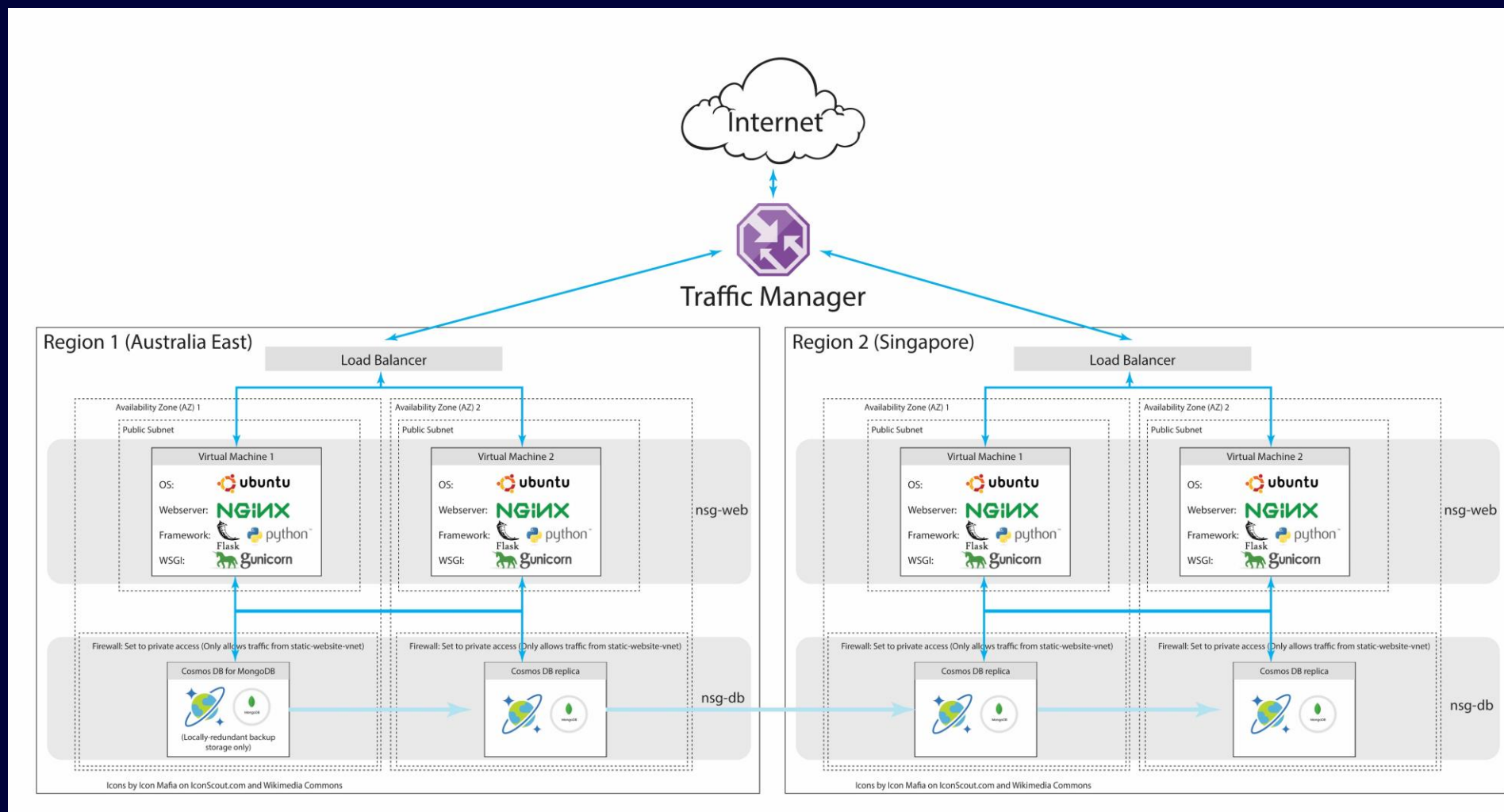
Design for
High Availability
~$116.04/month PAYG
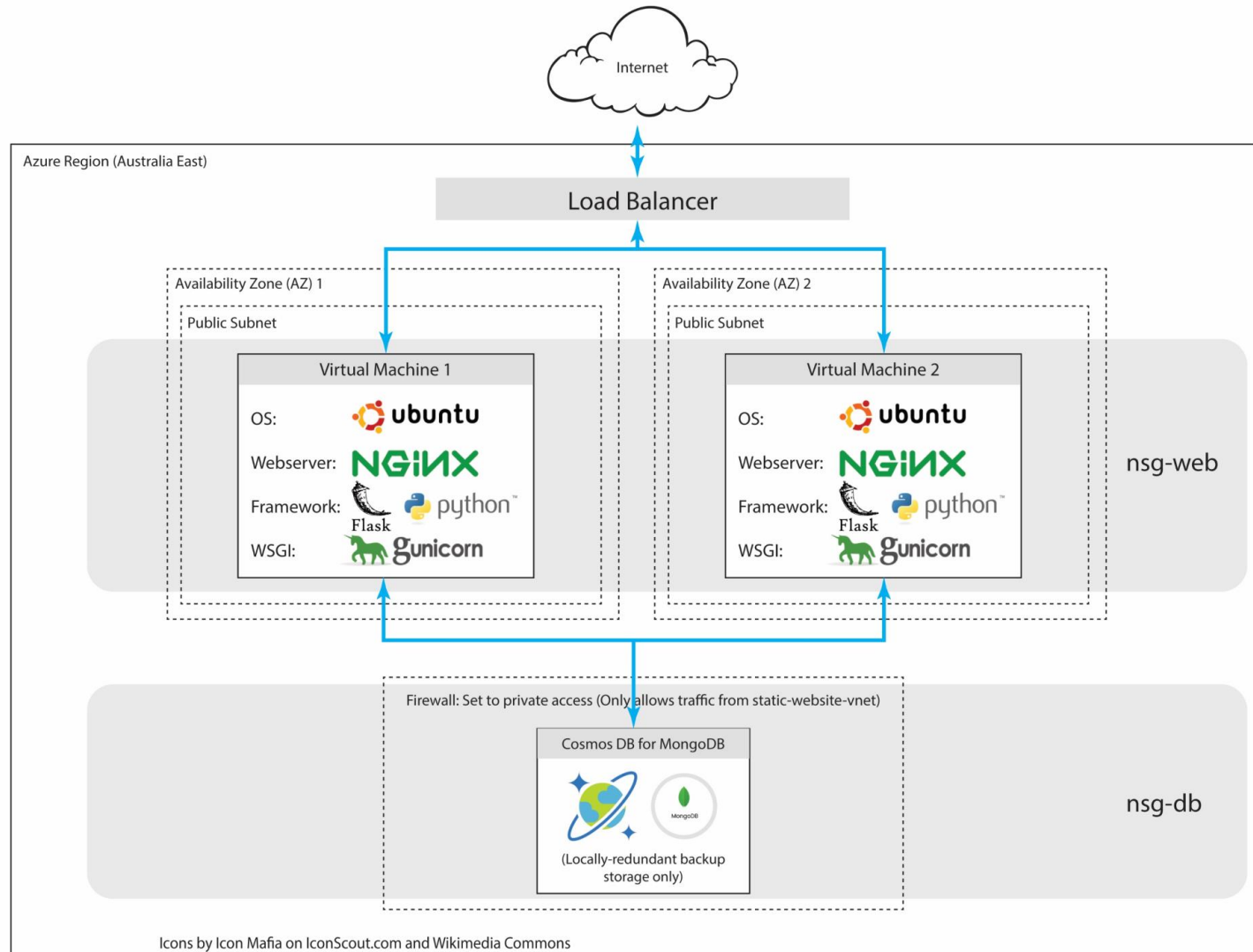
Network architecture design and costs

Design for Max Availability

~$216.65/month PAYG

More information needed to scope costs involved in scaling up/out for traffic

Demo time!

Questions?

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