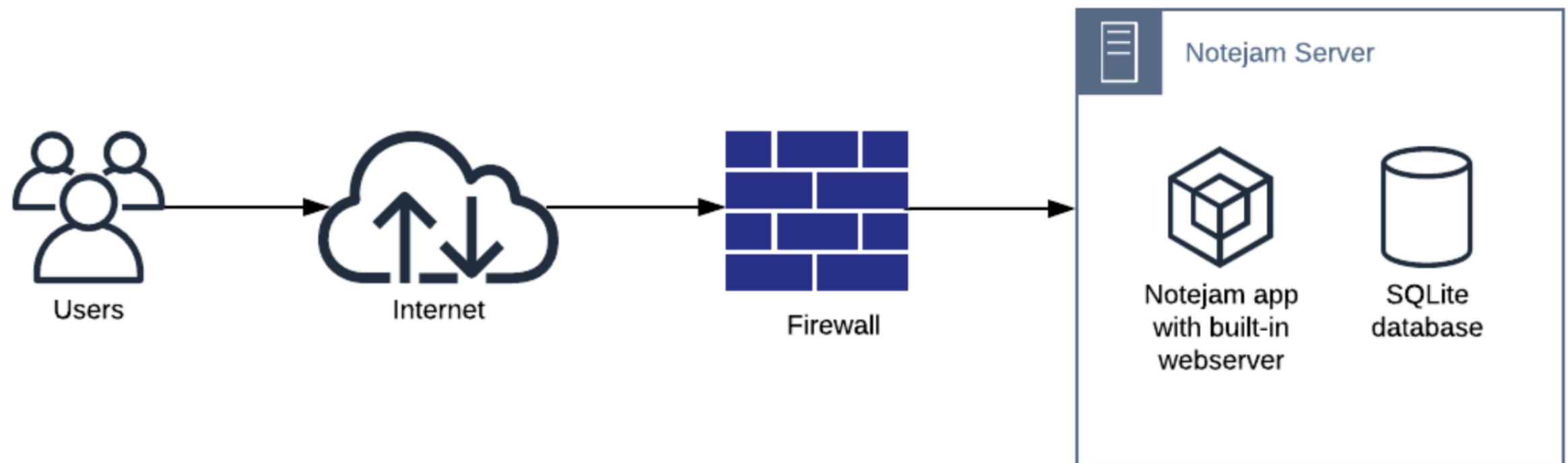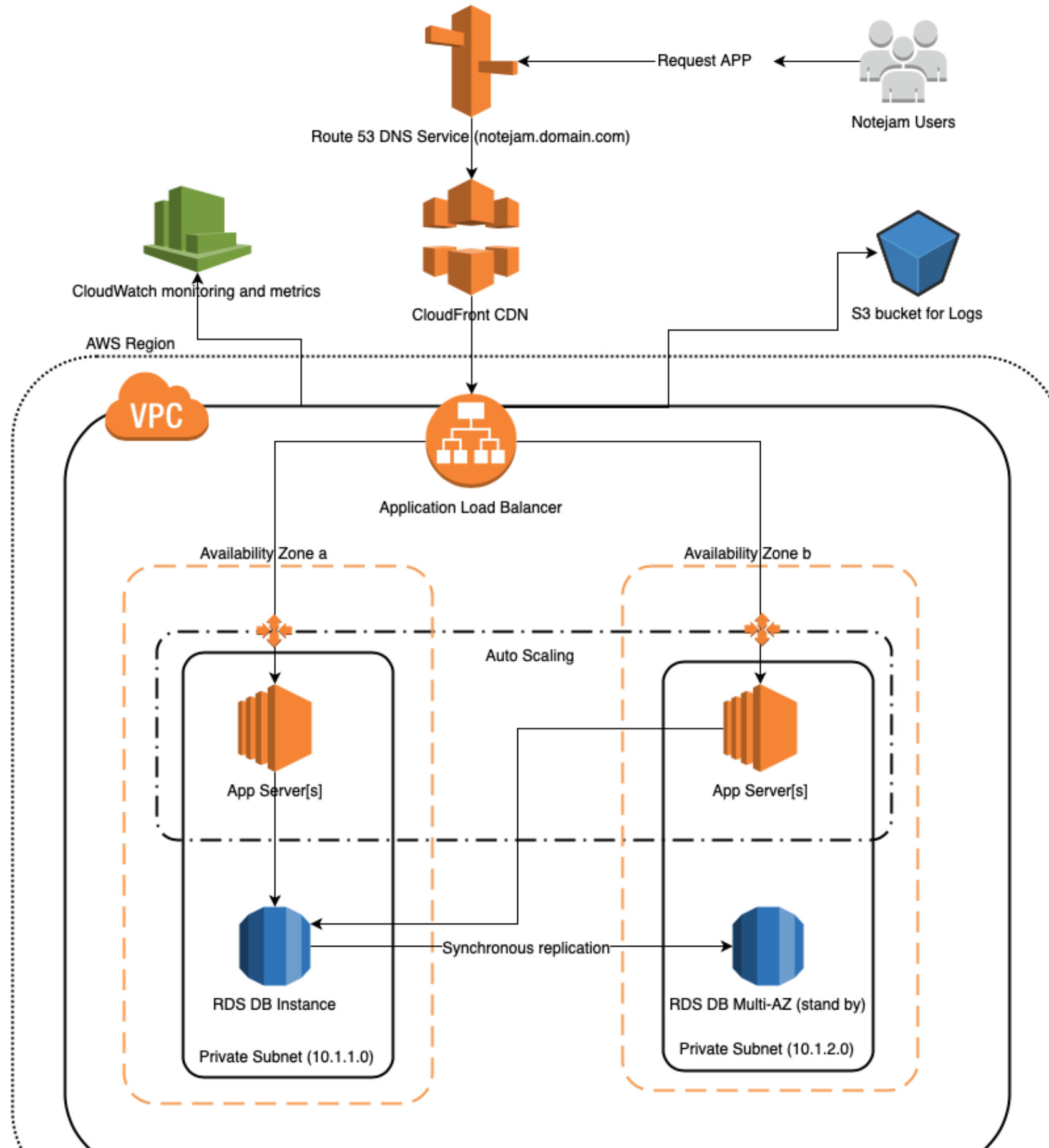# Nordcloud

Notejam on aws

Ivan Petrushevski, September 2019

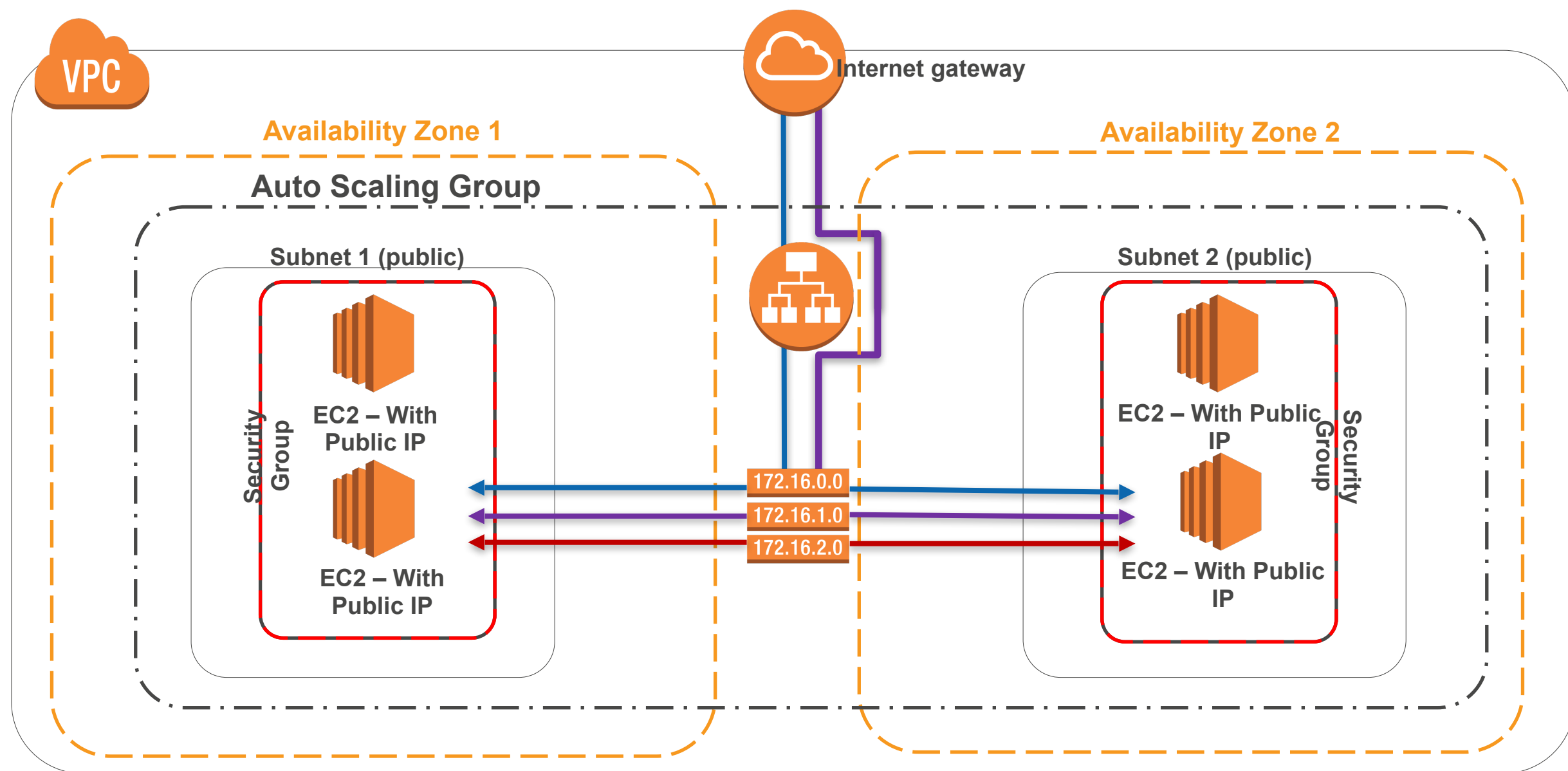# Current Architecture

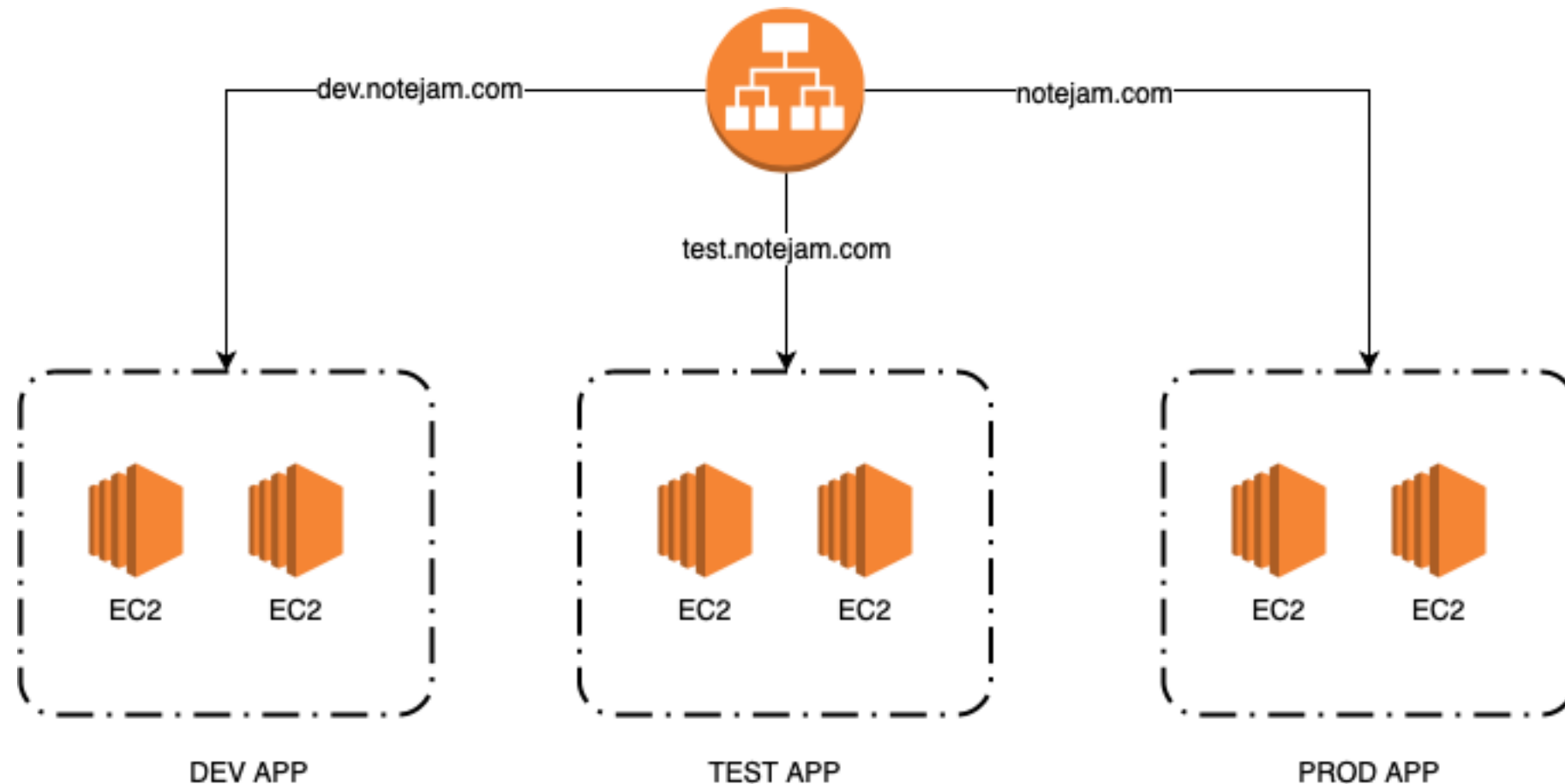# New Architecture

Nordcloud

Benefits from the new architecture

- High Availability

- Fault Tolerance

- Security

- Cost Optimisation

- Automatic deployment

Highly Availability, Fault Tolerant Systems & Security

Separate application environments

Notejam auto deploy

Notejam's Example auto deploy Laravel APP code on EC2 instance:
https://github.com/ivco/notejam/blob/master/notejam.sh

```bash
#!/bin/bash

amazon-linux-extras install epel

yum install httpd -y

yum install php -y

yum install php-dom php-mcrypt php-mbstring php-mcrypt php-pdo -y

yum install git -y

systemctl enable httpd

sed -i -e "s/memory_limit = [0-9]*M$/memory_limit = 1024M/" /etc/php.ini

git clone https://github.com/komarserjio/notejam.git /var/www/html

echo 'Alias / /var/www/html/laravel/notejam/public/' >> /etc/httpd/conf/httpd.conf

echo '<Directory "/var/www/html/laravel/notejam/public">' >> /etc/httpd/conf/httpd.conf

echo '        AllowOverride All'  >> /etc/httpd/conf/httpd.conf

echo '        Order allow,deny' >> /etc/httpd/conf/httpd.conf

echo '        allow from all' >> /etc/httpd/conf/httpd.conf

echo '</Directory>' >> /etc/httpd/conf/httpd.conf

systemctl start httpd

cd /var/www/html/laravel/notejam/

curl -sS https://getcomposer.org/installer | sudo php

sudo mv composer.phar /usr/bin/composer

sudo composer install

sudo composer update --prefer-lowest

touch app/database/notejam.db

sudo php artisan migrate -no-interaction

sed -i '/RewriteEngine On/a RewriteBase /' /var/www/html/laravel/notejam/public/.htaccess

echo $(hostname) > /var/www/html/laravel/notejam/public/healthcheck.html

chown -R apache:apache /var/www/html
```

Infrastructure as a code

Having the whole infrastructure in code is useful for:

- Used to quickly provision test/dev environments

- Used to restore and lunch the deployments in another region/account

- Single source of truth

- Automate and deploy

Notejam's Example infrastructure as code:
https://github.com/ivco/notejam/blob/master/notejam-infrastracture.yml