



Uniface & Cloudinfrastructuur

5GL! Virginia IT Services

Franklin Nurmohamed

14 juni 2017

Ontdek het Licht
met 5GL!



ERVARINGEN

1994 – 2004 Applicatie ontwikkelaar

2004 – 2014 Projectmanager

ERVARINGEN

1994 – 2004 Applicatie ontwikkelaar

2004 – 2014 Projectmanager

Uniface ontwikkelaar

Snel applicaties ontwikkelen

Makkelijk wijzigingen doorvoeren

Conceptueel werken.

ERVARINGEN

1994 – 2004 Applicatie ontwikkelaar

2004 – 2014 Projectmanager

Inkoop maatwerk software

- Workflow / sharepoint Accountantsbedrijf
- Telefoonboek - Hogeschool
- Administratie - Ministerie

ERVARINGEN

1994 – 2004 Applicatie ontwikkelaar

2004 – 2014 Projectmanager

- 5 tot 6 keer meer manuren dan met Uniface
- Veel doorlooptijd
- Veel uitloop → Nooit Op Tijd
- Veel bugs → frustratie
- Duur

Opstarten eigen ICT business

Dat kan beter

Kritische succesfactoren

- Zeer snelle applicatie ontwikkeling:
 - 4^e generatie ontwikkeltaal
 - Goede standaarden, templates en libraries
 - Applicatiemodulen (menu, autorisatie, print etc)
 - Opgeleide Ontwikkelaars
 - Quality proces
 - Ontwikkelpoces en methode
- Projectmanagement
 - methode
 - Planning en bijsturen
- Gedreven personeel
- Kleine teams
- Kleine afdelingen en/of bedrijven
- Visie
- Entrepreneurschap

Roadmap Startup 5GL!

2015

- Onderzoek
 - Techniek
 - Haalbaarheid
 - Financiering
 - organisatie

2016

TECHNIEK

2017

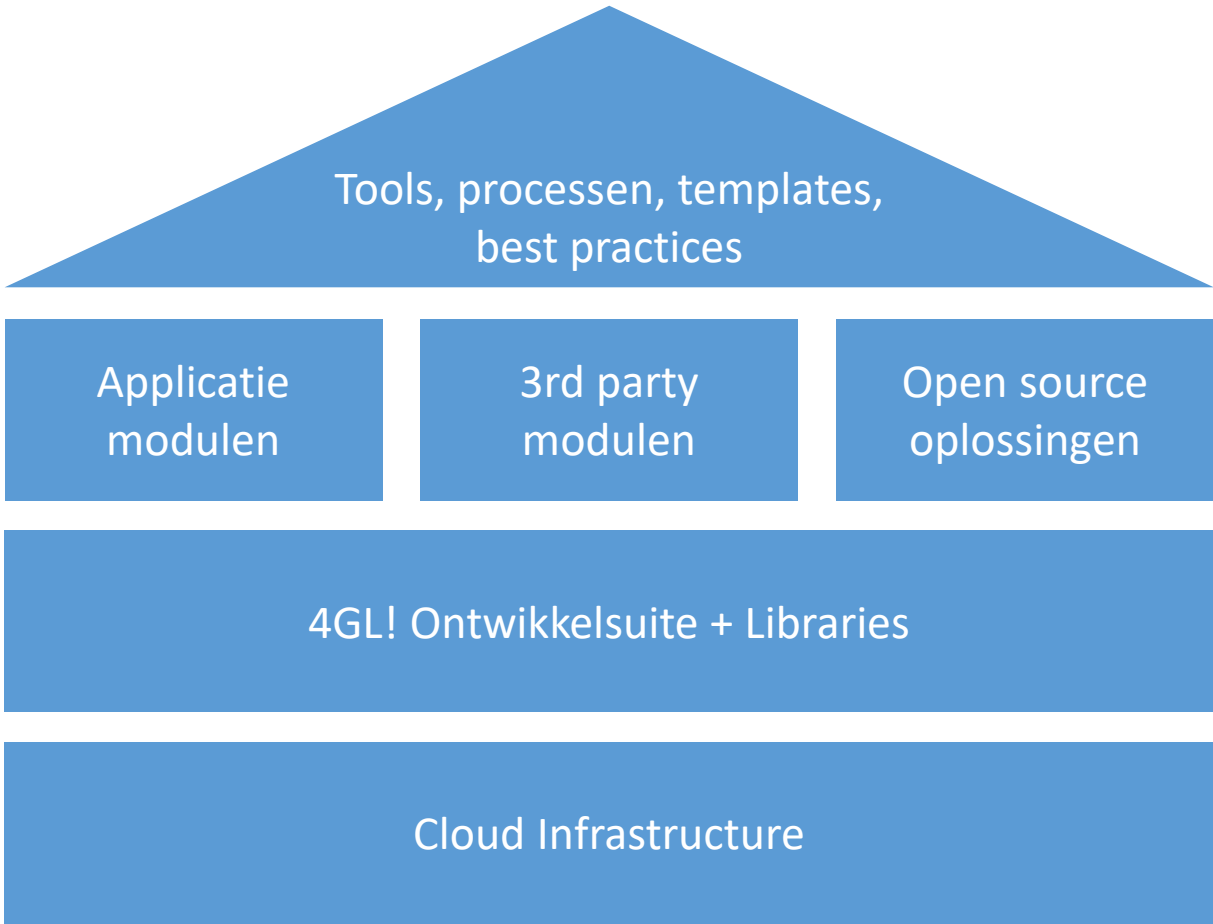
Processen
Contracten /SLA
Franchise contracten
Profielen

2018

In Business

Start met klanten,
ontwikkelen en beheren

Technisch huis



CLOUD INFRASTRUCTUUR

Noodzakelijk

Basis voor elke applicatie

Vaak grote kostenpost

Beïnvloed beheer

AANBIEDERS selectie

AMAZON

Microsoft

KPN

CRITERIA

PROOVEN

MAKKELIJK

VEILIG

KWALITEIT

FLEXIBEL

KOSTEN

OP - AFSCHALEN

DIVERSITEIT

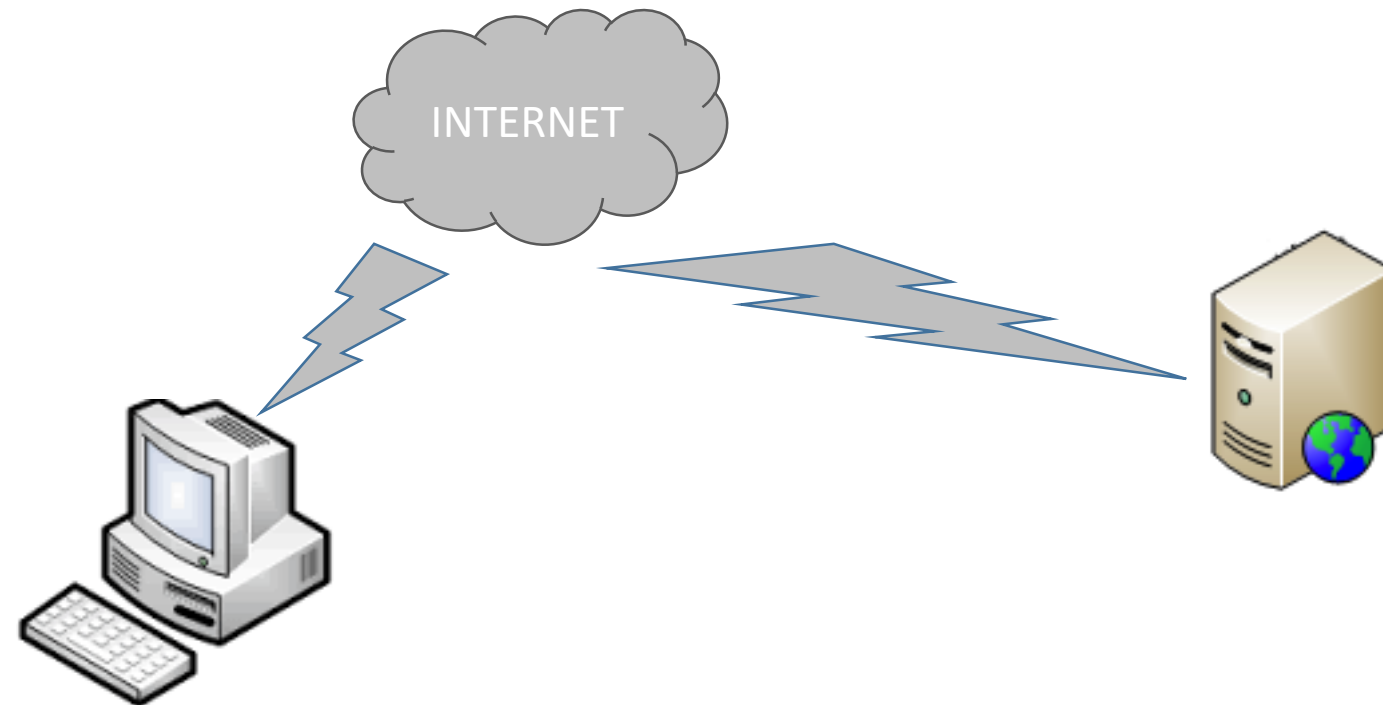
Internationaal

GROOT

Proof of Concept

AMAZON

Server



Account aanmaken

portal.aws.amazon.com

English Sign Out

Amazon Web Services Sign Up

Contact Information

☒ Company Account ☐ Personal Account

* Required Fields

Full Name*

Company Name*

Country*

United States

Address*

Street, P.O. Box, Company Name, c/o

Apartment, suite, unit, building, floor, etc.

City*

State / Province or Region*

Postal Code*

Phone Number*

Security Check 





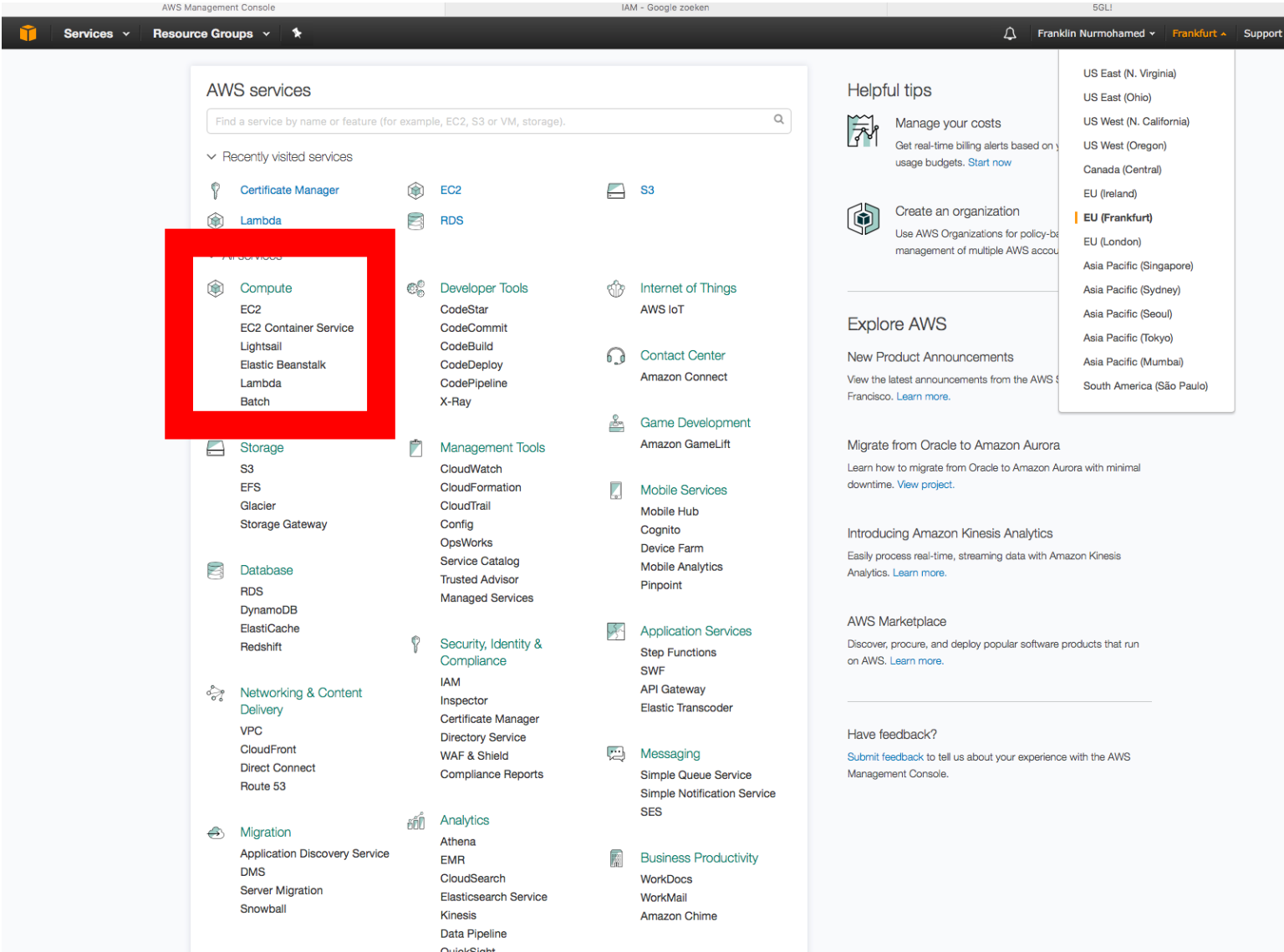
Please type the characters as shown above

AWS Customer Agreement

☐ Check here to indicate that you have read and agree to the terms of the [AWS Customer Agreement](#)

Create Account and Continue

Amazon Webservices (AWS) Console



Amazon Webservices (AWS) Elastic Computing

Services

Resource Groups

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Spot Requests

Reserved Instances

Dedicated Hosts

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

NETWORK & SECURITY

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

LOAD BALANCING

Load Balancers

Target Groups

AUTO SCALING

Launch Configurations

Auto Scaling Groups

SYSTEMS MANAGER SERVICES

Run Command

State Manager

Automations

Patch Compliance

Patch Baselines

SYSTEMS MANAGER SHARED RESOURCES

Managed Instances

Activations

Documents

Resources

You are using the following Amazon EC2 resources in the EU Central (Frankfurt) region:

1 Running Instances

0 Elastic IPs

0 Dedicated Hosts

2 Snapshots

2 Volumes

1 Load Balancers

1 Key Pairs

5 Security Groups

0 Placement Groups

Just need a simple virtual private server? Get everything you need to jumpstart your project - compute, storage, and networking – for a low, predictable price. [Try Amazon Lightsail for free.](#)

Create Instance

To start using Amazon EC2, you will want to launch a virtual server, known as an Amazon EC2 instance.

Launch Instance

Note: Your instances will launch in the EU Central (Frankfurt) region

Service Health

Service Status

EU Central (Frankfurt):
This service is operating normally

Availability Zone Status:

eu-central-1a:
Availability zone is operating normally

eu-central-1b:
Availability zone is operating normally

[Service Health Dashboard](#)

Scheduled Events

EU Central (Frankfurt):
No events

Server aanmaken

eu-central-1.console.aws.amazon.com

ServicesResource GroupsFranklin NurmohamedFrankfurtSupport

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Cancel and Exit

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start

My AMIs

AWS Marketplace

Community AMIs

☐ Free tier only ⓘ

Amazon Linux

Free tier eligible

Amazon Linux AMI 2017.03.0 (HVM), SSD Volume Type - ami-b968bad6

The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.

Root device type: ebsVirtualization type: hvm

Select

64-bit

Red Hat

Free tier eligible

Red Hat Enterprise Linux 7.3 (HVM), SSD Volume Type - ami-e4c63e8b

Red Hat Enterprise Linux version 7.3 (HVM), EBS General Purpose (SSD) Volume Type

Root device type: ebsVirtualization type: hvm

Select

64-bit

SUSE Linux

Free tier eligible

SUSE Linux Enterprise Server 12 SP2 (HVM), SSD Volume Type - ami-c425e4ab

SUSE Linux Enterprise Server 12 Service Pack 2 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.

Root device type: ebsVirtualization type: hvm

Select

64-bit

Ubuntu

Free tier eligible

Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-060cde69

Ubuntu Server 16.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Root device type: ebsVirtualization type: hvm

Select

64-bit

Microsoft Windows

Free tier eligible

Microsoft Windows Server 2016 Base - ami-0f2ff760

Microsoft Windows 2016 Datacenter edition. [English]

Root device type: ebsVirtualization type: hvm

Select

64-bit

Are you launching a database instance? Try Amazon RDS.

Amazon RDS

Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale your database consuming database management tasks. With RDS, you can easily deploy **Amazon Aurora**, **MariaDB**, **PostgreSQL**, and **SQL Server** databases on AWS. [Aurora](#) is a MySQL-compatible, enterprise-class database at 1/10th the cost of commercial databases. [Learn more about RDS](#)

Launch a database using RDS

Microsoft Windows

Free tier eligible

Microsoft Windows Server 2016 Base with Containers - ami-70ae771f

Microsoft Windows 2016 Datacenter edition with Containers. [English]

Root device type: ebsVirtualization type: hvm

Select

64-bit

1 to 31 of 31 AMIs

Hide

Server aanmaken

eu-central-1.console.aws.amazon.com

ServicesResource Groups

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance typesCurrent generationShow/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
☐	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
☒	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
☐	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
☐	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
☐	General purpose	m4.large	2	8	EBS only	Yes	Moderate	Yes
☐	General purpose	m4.xlarge	4	16	EBS only	Yes	High	Yes
☐	General purpose	m4.2xlarge	8	32	EBS only	Yes	High	Yes

CancelPrevious

Review and LaunchNext: Configure Instance Details

FeedbackEnglish

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Server aanmaken

eu-central-1.console.aws.amazon.com

ServicesResource Groups

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details

Free tier eligible

Microsoft Windows Server 2016 Base - ami-0f2ff760

Microsoft Windows 2016 Datacenter edition. [English]

Root Device Type: ebsVirtualization type: hvm

Edit AMI

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Edit instance type

Security Groups

Security group name

launch-wizard-3

Description

launch-wizard-3 created 2017-05-30T17:34:33.680+02:00

Type	Protocol	Port Range	Source
This security group has no rules			

Edit security groups

Instance Details

Edit instance details

Storage

Tags

Edit tags

Cancel

Previous

Launch

Server aanmaken

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name
☒	5GL_PRD3	i-055620a90777bb41f	t2.micro	eu-central-1b	running	2/2 checks ...	None	ec2-35-158-76-140.eu-...	35.158.76.140	-	fnu_key_2
☐	5GL_PRD2	i-0589c7f0fc973ec23	t2.micro	eu-central-1b	running	2/2 checks ...	None	ec2-52-58-53-175.eu-c...	52.58.53.175	-	fnu_key_2
☐	DEV1_DEPR	i-0af1358faa7e79a94	t2.micro	eu-central-1b	stopped		None		-	-	fnu_key_2
☐	5GL_PRD1	i-0c85d331b37a5e4df	t2.micro	eu-central-1b	running	2/2 checks ...	None	ec2-35-156-141-20.eu-...	35.156.141.20	-	fnu_key_2

Description

Status Checks

Monitoring

Tags

CloudWatch alarms: No alarms configured

CloudWatch metrics: Basic monitoring. Enable Detailed Monitoring

Showing data for: Last Hour

Below are your CloudWatch metrics for the selected resources (a maximum of 10). Click on a graph to see an expanded view. All times shown are in UTC. View all CloudWatch metrics

CPU Utilization (Percent)

Disk Reads (Bytes)

Disk Read Operations (Operations)

Disk Writes (Bytes)

Disk Write Operations (Operations)

Network In (Bytes)

Network Out (Bytes)

Network Packets In (Count)

Network Packets Out (Count)

Status Check Failed (Any) (Count)

Server aanmaken

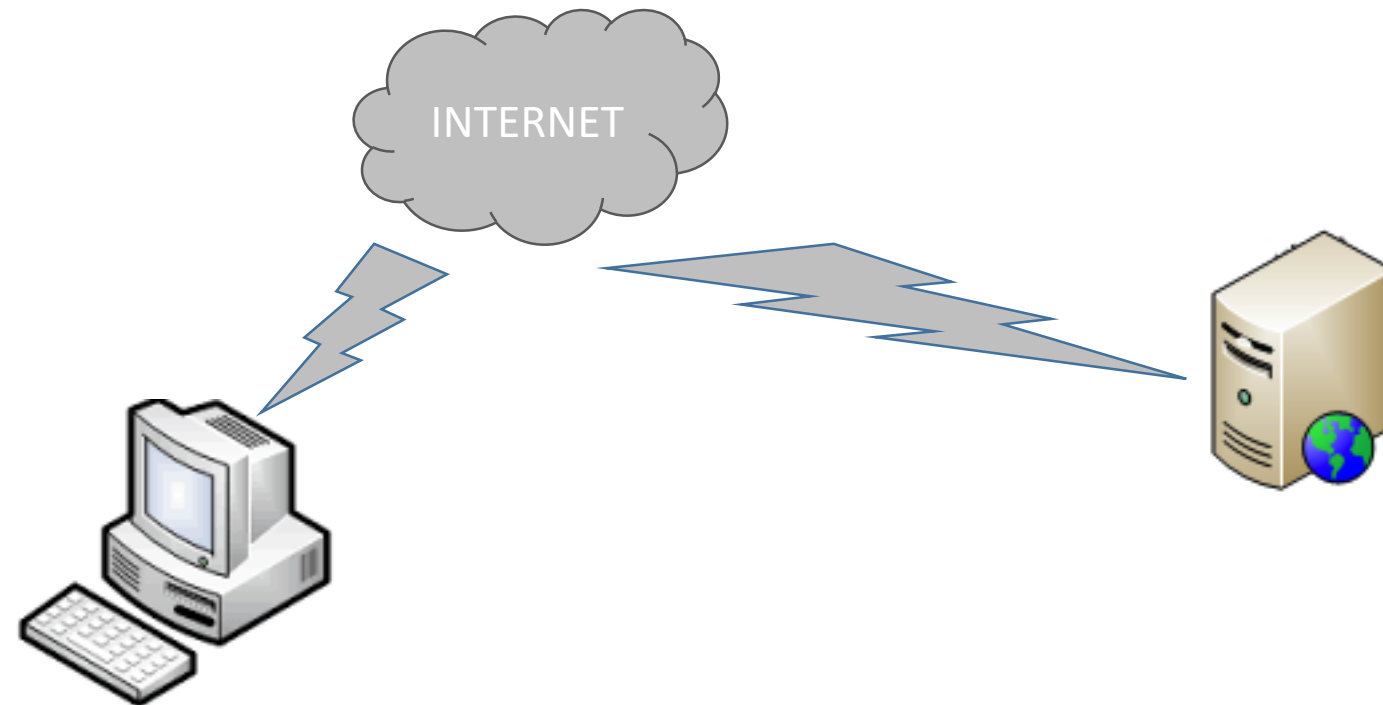
Aanloggen Remote desktop

Tools installeren

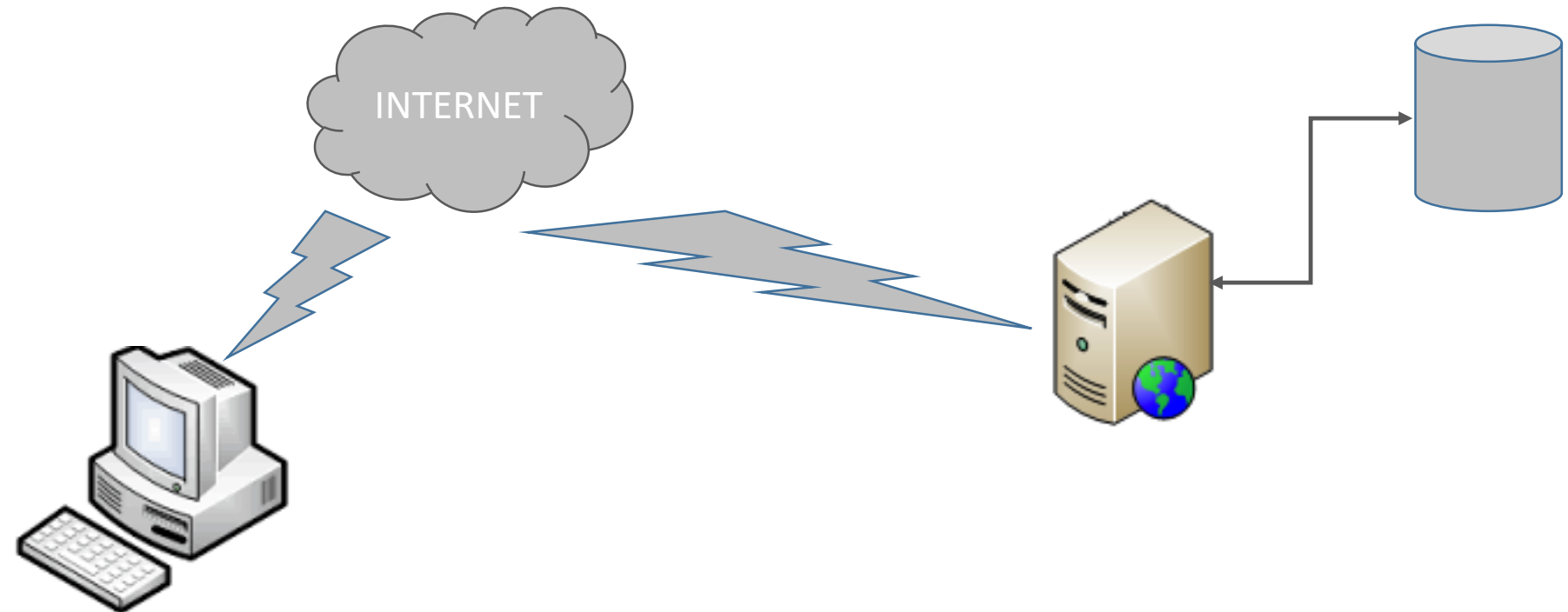
Uniface installeren en configureren

Security en Firewall instellingen

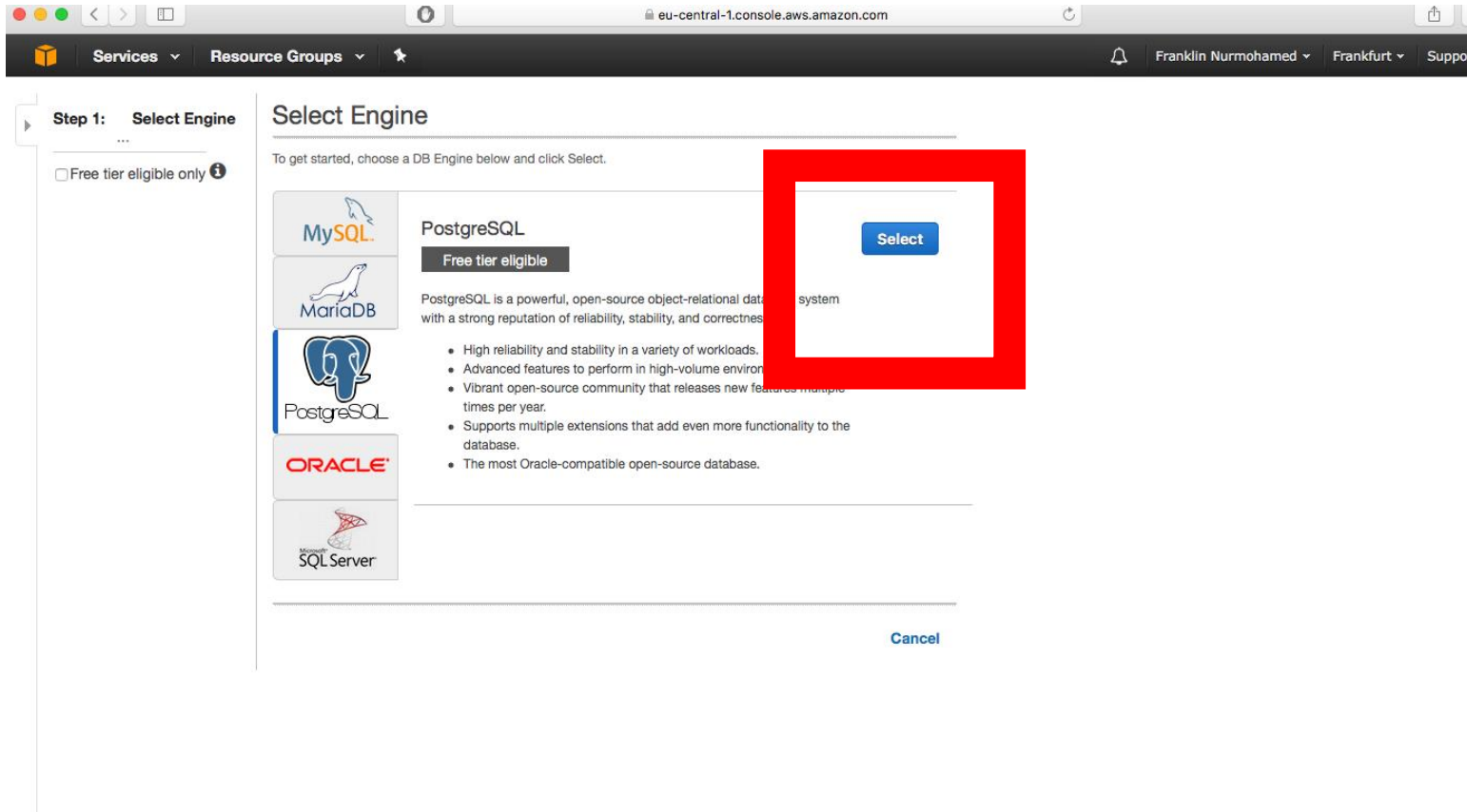
Server



Data in Database



Database service aanmaken



Database service aanmaken

Services

Resource Groups

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Step 1: Select Engine

Step 2: Production?

Step 3: Specify DB Details

Step 4: Configure Advanced Settings

The following selections disqualify the instance from being eligible for the free tier:

- Allocated Storage > 20GB

You will be charged normal RDS Prices. [Learn More](#).

Estimate your monthly costs for the DB Instance using the [RDS Instance Cost Calculator](#).

Specify DB Details

Instance Specifications

DB Engine

postgres

License Model

postgresql-license

DB Engine Version

PostgreSQL 9.6.2-R1

DB Instance Class

db.t2.micro — 1 vCPU, 1 GiB RAM

Multi-AZ Deployment

No

Storage Type

General Purpose (SSD)

Allocated Storage*

100

GB

(Minimum: 5 GB, Maximum: 6144 GB) Higher allocated storage [may improve](#) IOPS performance.

Settings

DB Instance Identifier*

TEST123

Master Username*

TEST123

Master Password*

.....

Confirm Password*

.....

* Required

Cancel

Previous

Next Step

Database service aanmaken

eu-central-1.console.aws.amazon.com

ServicesResource Groups

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Subnet Groupdefault

Publicly AccessibleYes

Availability ZoneNo Preference

VPC Security Group(s)

Create new Security Group
Loadbalancer 5GL extern (VPC)
default (VPC)
launch-wizard-1 (VPC)

Database Options

Database Name

Database Port5432

DB Parameter Groupdefault:postgres9.6

Option Groupdefault:postgres-9-6

Copy Tags To Snapshots☐

Enable EncryptionNo

Backup

Backup Retention Period7 days

Backup WindowNo Preference

Monitoring

Enable Enhanced MonitoringYes

Monitoring RoleDefault

Granularity60 second(s)

☒ I authorize RDS to create the IAM role rds-monitoring-role.

Maintenance

Auto Minor Version UpgradeYes

Maintenance WindowNo Preference

The number of days for which automated backups are retained. Setting this parameter to a positive number enables backups. Setting this parameter to 0 disables automated backups.

Launch DB Instance

Database service aanmaken

Services

Resource Groups

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Support

RDS Dashboard

Instances

Reserved Instances

Snapshots

Parameter Groups

External Licenses

Option Groups

Subnet Groups

Events

Event Subscriptions

Notifications

Launch DB Instance

Show Monitoring

Instance Actions

Filter: All Instances

Search DB Instances...

Viewing 1 of 1 DB Instances

	Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replication Role
	PostgreSQL	db5gl	available	1.33%	1 Connections	None	db.t2.micro	vpc-840429ed	No	

Endpoint: db5gl.cort42vxlvf0.eu-central-1.rds.amazonaws.com:5432 (authorized)

Alarms and Recent Events

TIME (UTC+2)

EVENT

No Recent Events

Monitoring

	CURRENT VALUE	THRESHOLD	LAST HOUR
CPU	1.33%		
Memory	538 MB		
Storage	4,170 MB		

	CURRENT VALUE	LAST HOUR
Read IOPS	0.55/sec	
Write IOPS	2.05/sec	
Swap Usage	0.117 MB	

Instance Actions

Tags

Logs

Database

Stel security in

Installeer PostgreSQL ODBC driver / configureer

Installeer PgAdmin tools

Uniface configureren (ASN-file)

Tabellen creëren

(Zie presentatie Arjan v Vliet 2015)

The screenshot displays the pgAdmin III application window. The top menu bar includes File, Edit, Plugins, View, Tools, and Help. Below the menu is a toolbar with various icons for file operations, database management, and help.

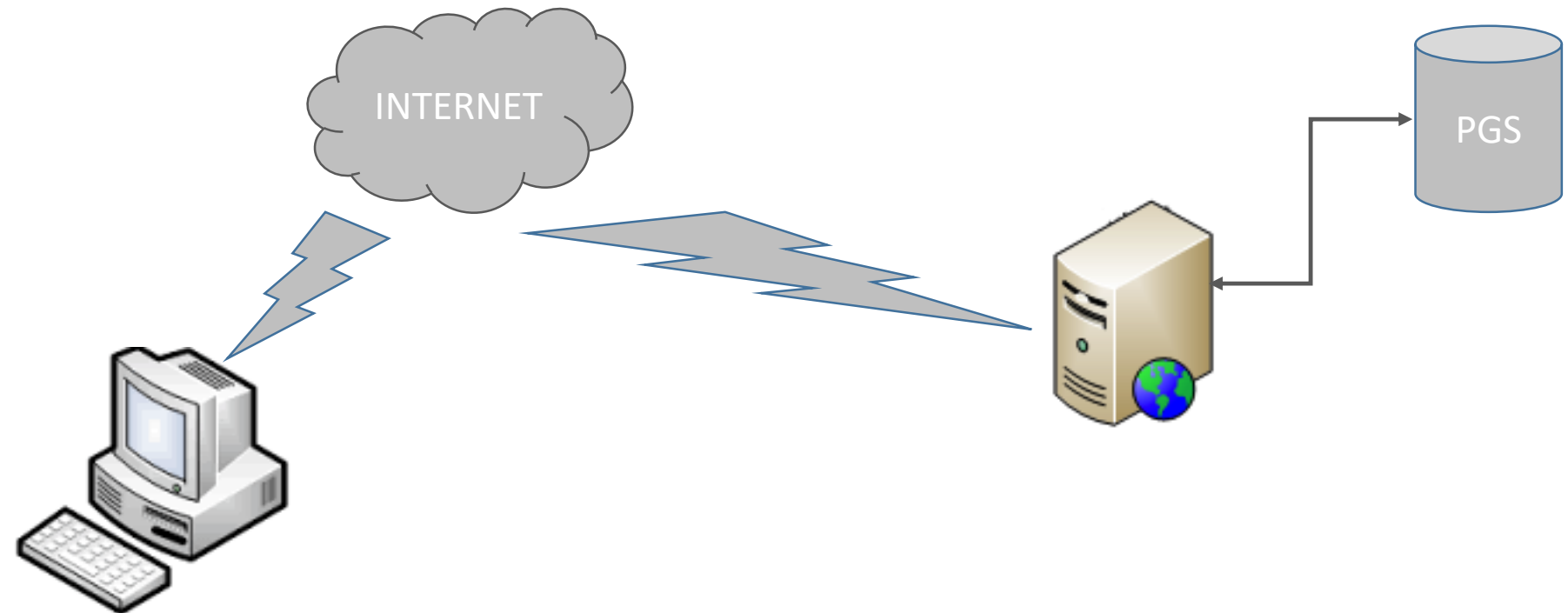
The main interface is divided into three panes:

- Object browser (left):** Shows a tree view of the database structure. The 'public' schema is selected, showing its contents: Collations (0), Domains (0), FTS Configurations (0), FTS Dictionaries (0), FTS Parsers (0), FTS Templates (0), Functions (131), Sequences (0), and Tables (25). The tables list includes 'eu_1hq15gle001', 'eu_1hq1aboe001', 'eu_1hq1bs1e001', 'eu_1hq1ex01ent001', 'eu_1hq1ex03ent001', 'eu_1hq1stde301', 'eu_1hq1stde500', 'eu_1hq1stde502', 'eu_1hq1stde503', 'eu_1hq1stde504', 'eu_1hq1stde520', 'eu_1hq1stdsent001', 'eu_1hq1wfm001', 'eu_1hq1wfm002', 'eu_1hq1wfm003', 'eu_1hq1wfm004', 'eu_1hq1wfm010', 'eu_1hq1wfm020', 'oeu_1hq1ex01ent001', 'oeu_1hq1stde301', 'oeu_1hq1stde520', 'oeu_1hq1wfm010', 'oeu_1hq1wfm020', 'tabel1', and 'xmessage'.
- Properties pane (top right):** Displays the properties of the selected 'public' schema. The 'Name' is 'public', 'OID' is '2200', 'Owner' is 'DB5GLADMIN', and 'ACL' is '{DB5GLADMIN=UC/DB5GLADMIN,=UC/DB5GLADMIN}'. Other properties like 'Default table ACL', 'Default sequence ACL', 'Default function ACL', 'Default type ACL', 'System schema?', and 'Comment' are also listed.
- SQL pane (bottom right):** Contains SQL commands for creating and managing the 'public' schema. The commands are:

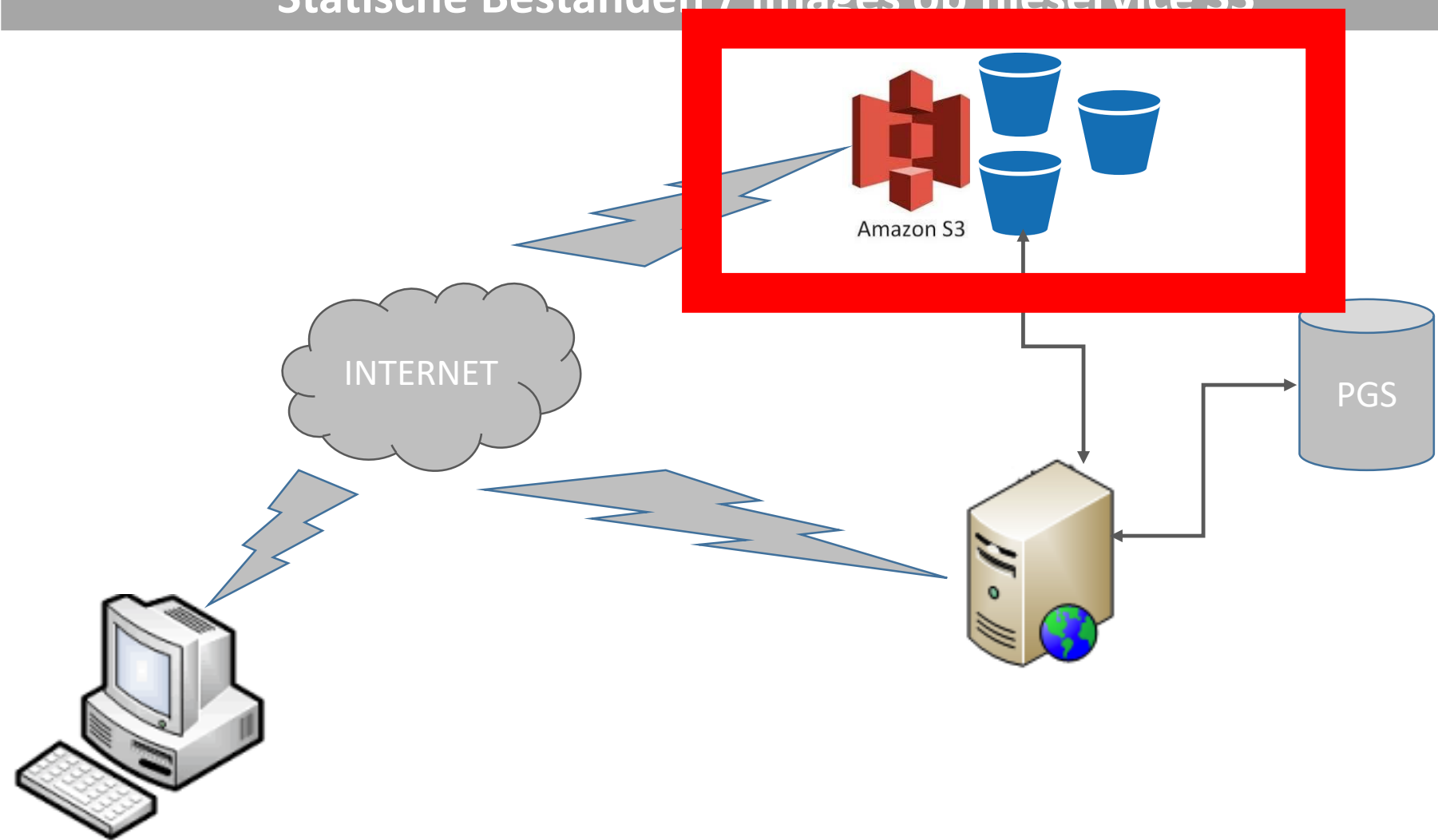

```
-- Schema: public
-- DROP SCHEMA public;
CREATE SCHEMA public
AUTHORIZATION "DB5GLADMIN";
GRANT ALL ON SCHEMA public TO "DB5GLADMIN";
GRANT ALL ON SCHEMA public TO public;
COMMENT ON SCHEMA public
IS 'standard public schema';
```

The status bar at the bottom indicates 'Restoring previous environment... Done.' and 'DB5GL on DB5GLADMIN@db5gl.cort42vxlvf0.eu-central-1.rds.amazonaws.com:54: 515 msec'.

Data in Database



Statische Bestanden / Images op fileservice S3



Bestanden / Images op fileservice S3

Maak een Bucket

S3 Management ConsoleIAM - Google zoeken5GL!

ServicesResource Groups

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Want to manage your data based on what it is instead of where it's stored? Try S3 Object TaggingDocumentation

Amazon S3

Switch to the old consoleDiscover the new consoleQuick tips

Search for bucket

Create bucketDelete bucketEmpty bucket

1 Buckets1 Regions

Bucket name	Region	Date created
5gl.5gl.nl	EU (Frankfurt)	Jul 18, 2016 9:43:17 AM

Bestanden / Images op fileservice S3

Daarbinnen folders en bestanden

S3 Management Console IAM - Google zoeken 5GL!

Services Resource Groups

Amazon S3 > 5gl.5gl.nl > EU1HQ15GL > images

Objects Properties Permissions Management

Q Type a prefix and press Enter to search. Press ESC to clear.

Upload Create folder More

EU (Frankfurt)

Viewing 1 to 9

☐	Name ↑	Last modified ↑	Size ↑	Storage class ↑
☐	ZeilbotenIMG	--	--	--
☐	F1A.JPG	May 25, 2017 1:01:08 PM	704.6 KB	Standard
☐	F2A.JPG	May 25, 2017 1:04:49 PM	582.9 KB	Standard
☐	F3A.JPG	May 25, 2017 1:05:03 PM	365.3 KB	Standard
☐	F4A.JPG	May 25, 2017 1:05:13 PM	256.7 KB	Standard
☐	cloud.jpg	Jul 18, 2016 4:32:07 PM	41.0 KB	Standard
☐	development.jpg	Jul 18, 2016 4:25:36 PM	448.3 KB	Standard
☐	fnu_2016.jpg	Jul 18, 2016 4:28:15 PM	164.4 KB	Standard
☐	scrum.jpg	Jul 18, 2016 4:32:54 PM	68.6 KB	Standard

Viewing 1 to 9

Bestanden / Images op fileservice S3

Permissions

 Services ▾ Resource Groups ▾ ⌘

 Amazon S3 > 5gl.5gl.nl > EU1HQ15GL > images

F1A.JPG [Latest version ▾](#)

Overview

Properties

Permissions

Manage users

+ Add users

Delete

Users 	Object access 	Permissions access 
☐ fcde30067324314e5bb0f20e4071bcff79732dee73278b0b3f4981368db20561	Read, Write	Read, Write

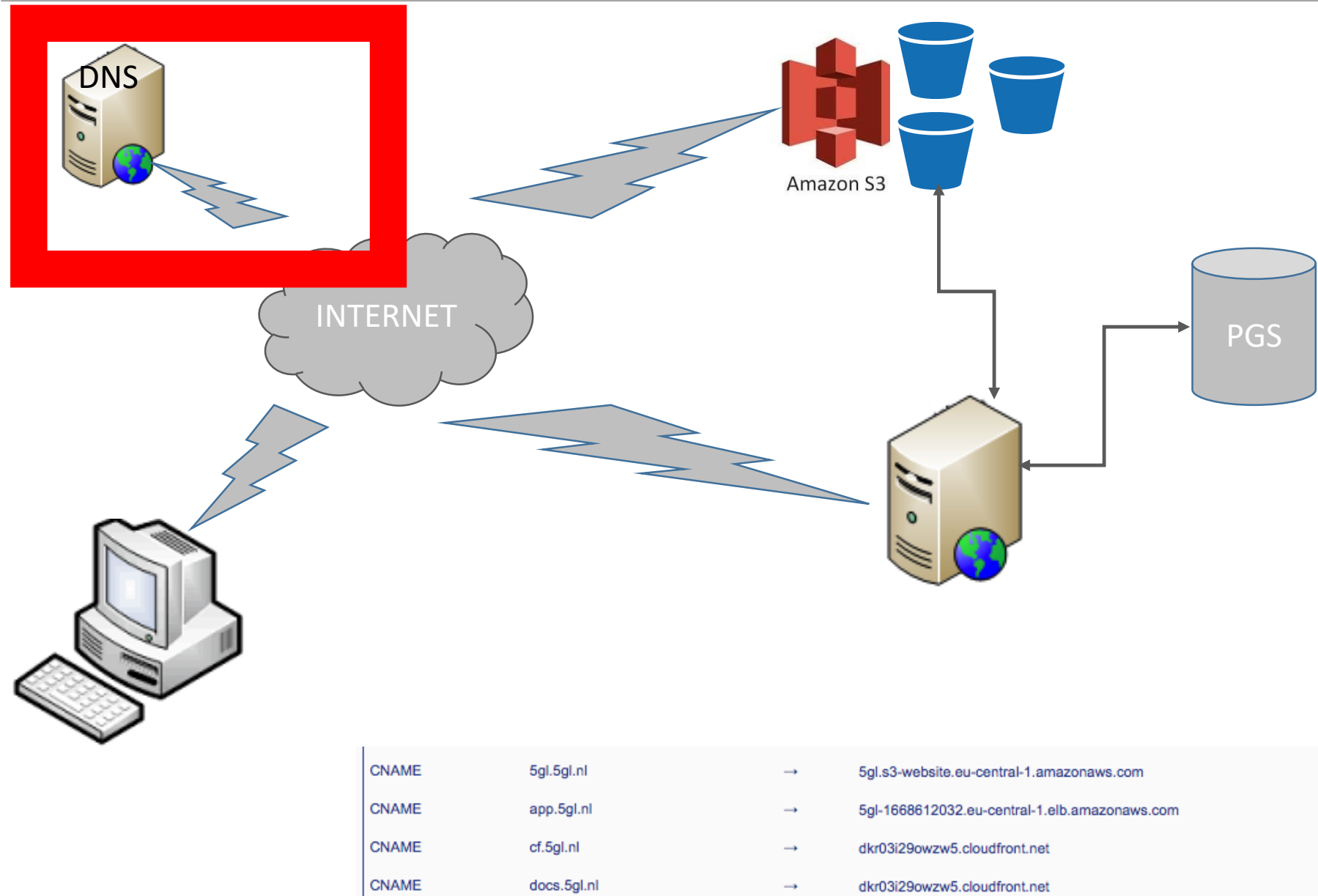
Manage public permissions

Group 	Object access 	Permissions access 
☐ Everyone	Read	

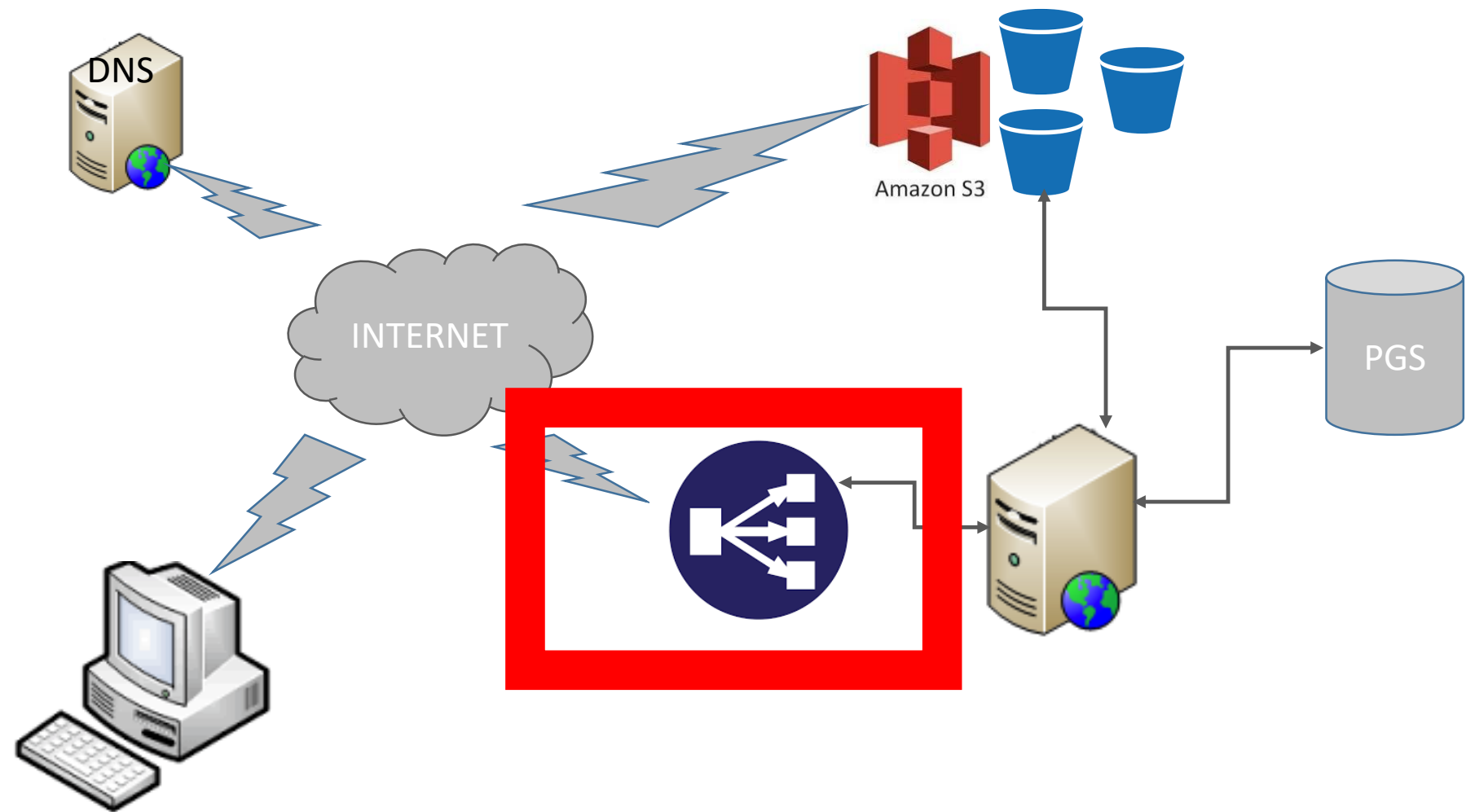
Manage system permissions

Group 	Object access 	Permissions access 
☐ Log Delivery		

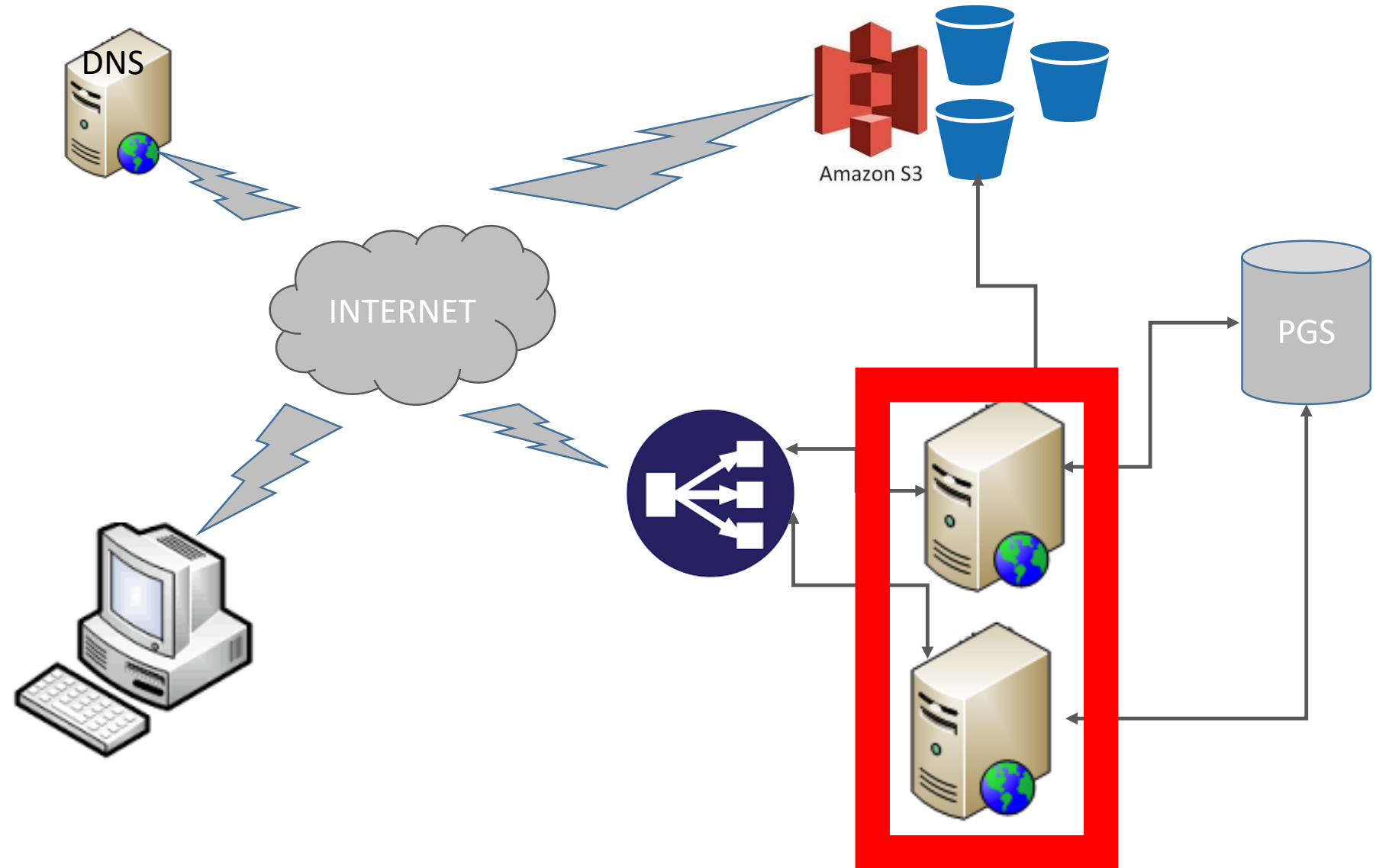
DNS www



Loadbalancer



Meerdere webservers / clonen



Instellen Loadbalancer

Add and Remove Instances

The table below lists all your running EC2 Instances. Check the boxes in the Select column to add those instances to this load balancer.

Warning: Unchecking instances and clicking save will remove these instances from your load balancer.

Add or Remove Instances

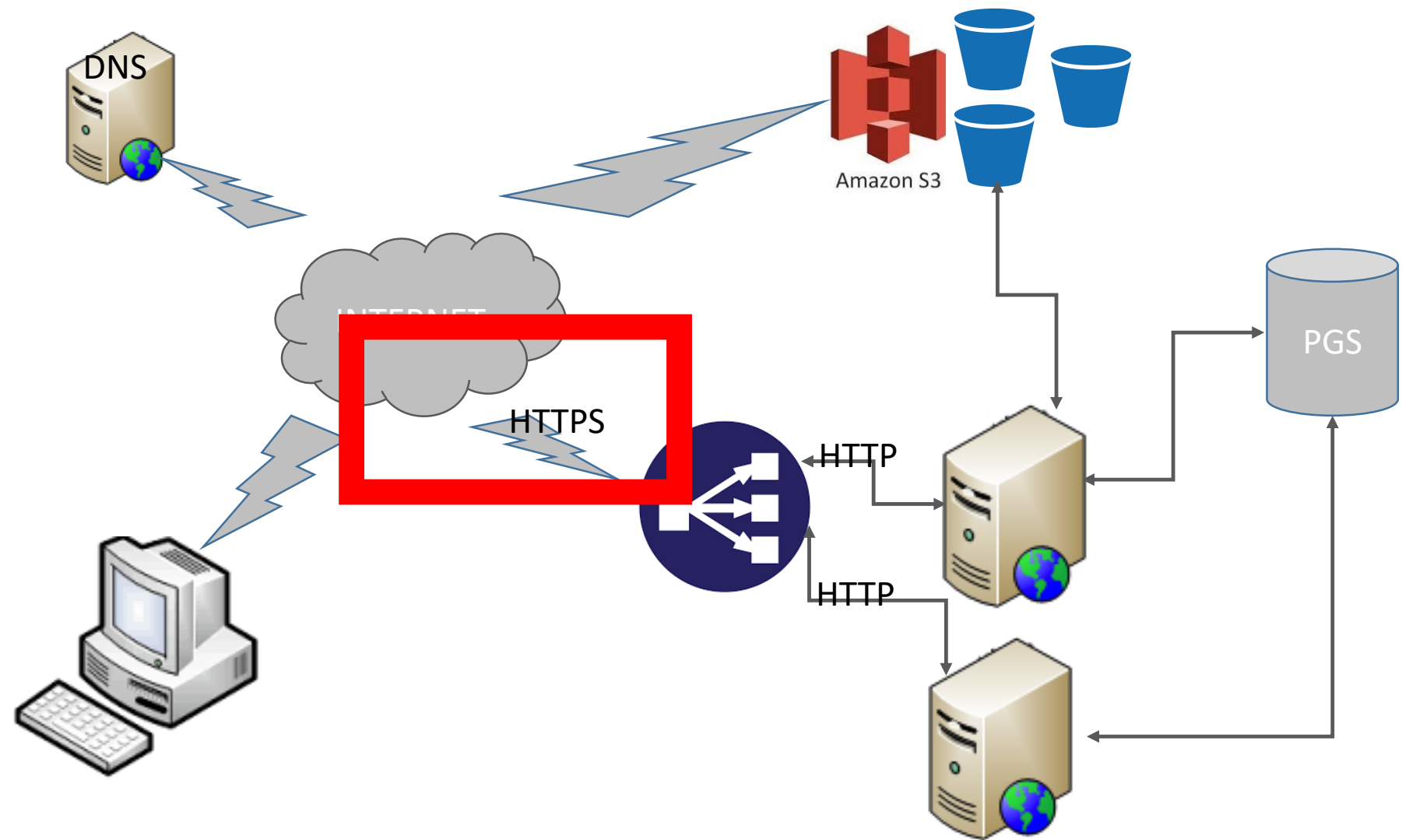
☐	Instance ID	Name	State	Security groups	Zone	Subnet ID	Subnet CIDR
☒	i-055620...	5GL_PRD3	running	launch-wizard-4	eu-central-1b	subnet-16c4e56d	172.31.16.0/20
☒	i-0589c2...	5GL_PRD2	running	launch-wizard-3	eu-central-1b	subnet-16c4e56d	172.31.16.0/20
☐	i-0af135...	DEV1_DEPR	stopped	launch-wizard-1	eu-central-1b	subnet-16c4e56d	172.31.16.0/20
☒	i-0c85d3...	5GL_PRD1	running	launch-wizard-2	eu-central-1b	subnet-16c4e56d	172.31.16.0/20

Availability Zone Distribution

3 instances in eu-central-1b

Cancel Save

Secure HTTP (HTTPS)



Secure HTTP (HTTPS) Aanmaken certificaat

Certificate manager vraag een certificaat aan.

AWS Certificate Manager

IAM - Google zoeken

 Services ▾ Resource Groups ▾ 

Request a certificate

Step 1: Add domain names

Step 2: Review and request

Step 3: Validation

You can use AWS Certificate Manager certificates with other [AWS Services](#).

Add domain names

Type the fully qualified domain name of the site you want to secure with an SSL/TLS certificate (for example, `www.example.com`). Use same domain. For example: `*.example.com` protects `www.example.com`, `site.example.com` and `images.example.com`.

Domain name*	Remove
www.5gl.nl	

Add another name to this certificate

You can add additional names to this certificate. For example, if you're requesting a certificate for `"www.example.com"`, you might want to add [more](#).



Secure HTTP (HTTPS) Loadbalancer

Selecteer Certificaat binnen loadbalancer

Select Certificate



An SSL Certificate allows you to configure the HTTPS/SSL listeners of your load balancer. You may select an existing SSL certificate or create a new one below. [Learn more](#) about setting up HTTPS load balancers and certificate management.

- Certificate type:**
- ☒ Choose an **existing** certificate from AWS Certificate Manager (ACM)
 - ☐ Choose an **existing** certificate from AWS Identity and Access Management (IAM)
 - ☐ Upload a **new** SSL certificate to AWS Identity and Access Management (IAM)

Request a new certificate from ACM

AWS Certificate Manager makes it easy to provision, manage, deploy, and renew SSL Certificates on the AWS platform. ACM

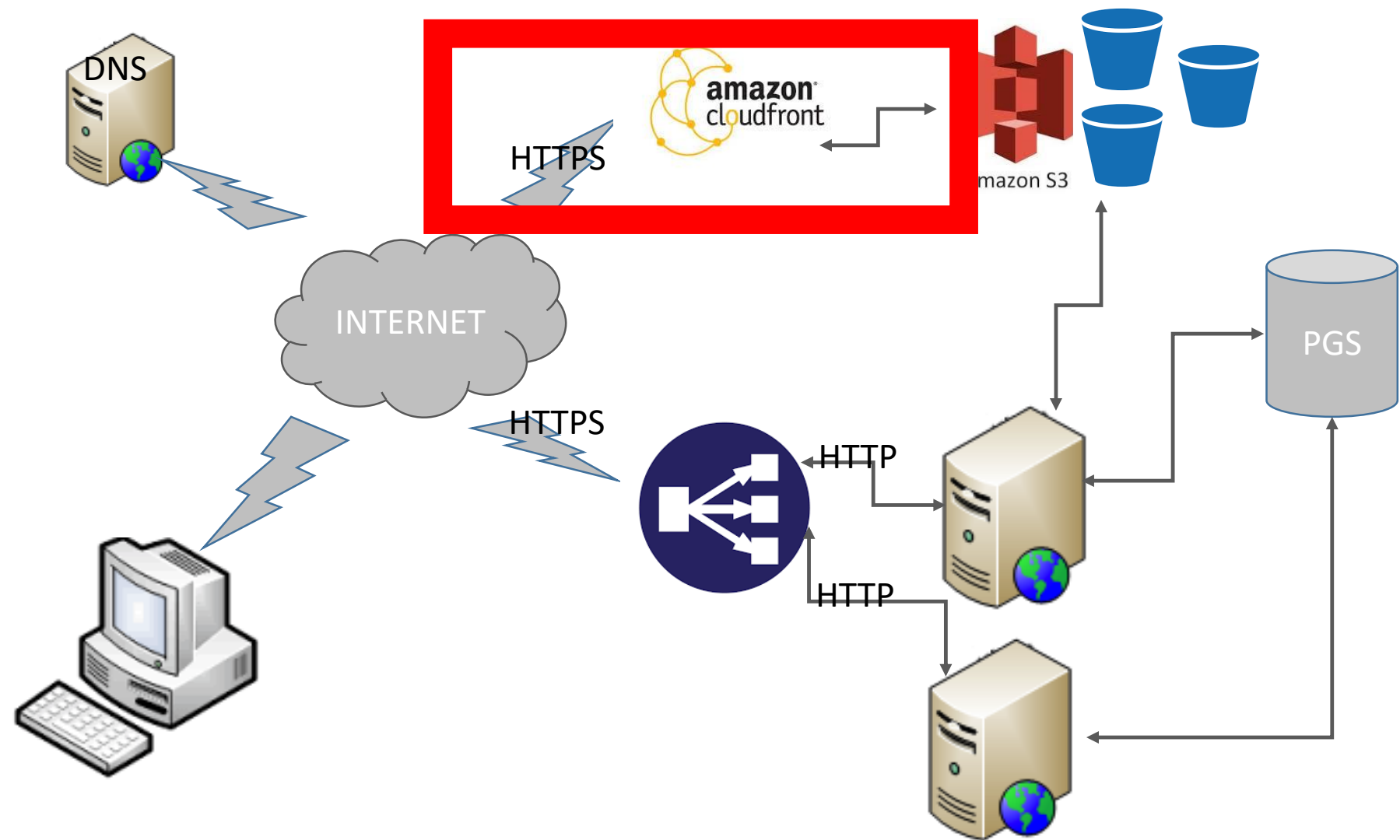
Certificate

www.5gl.nl (230d7671-fee7-4428-aef7-06e2f99689af) ⇅

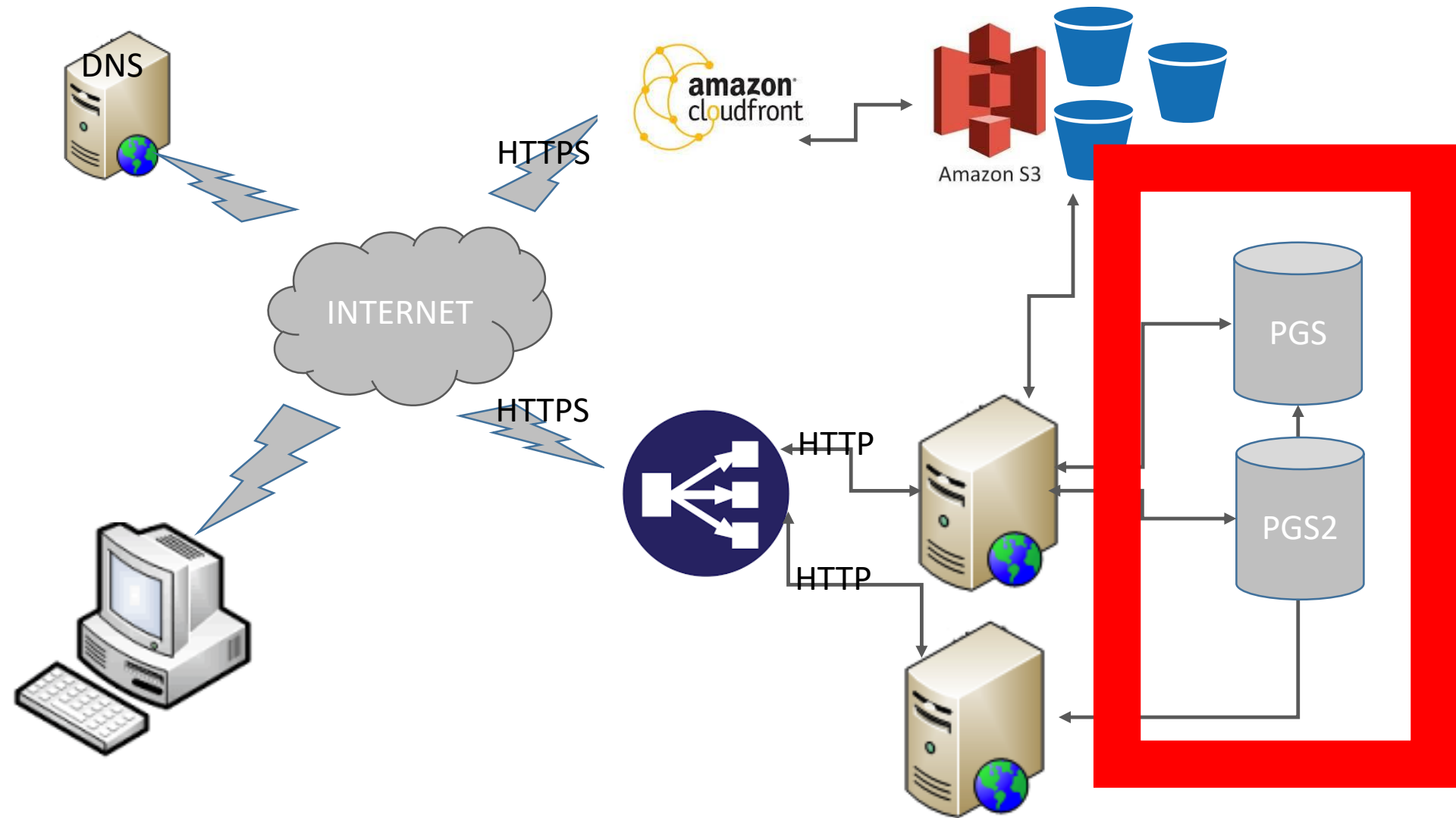
Cancel

Save

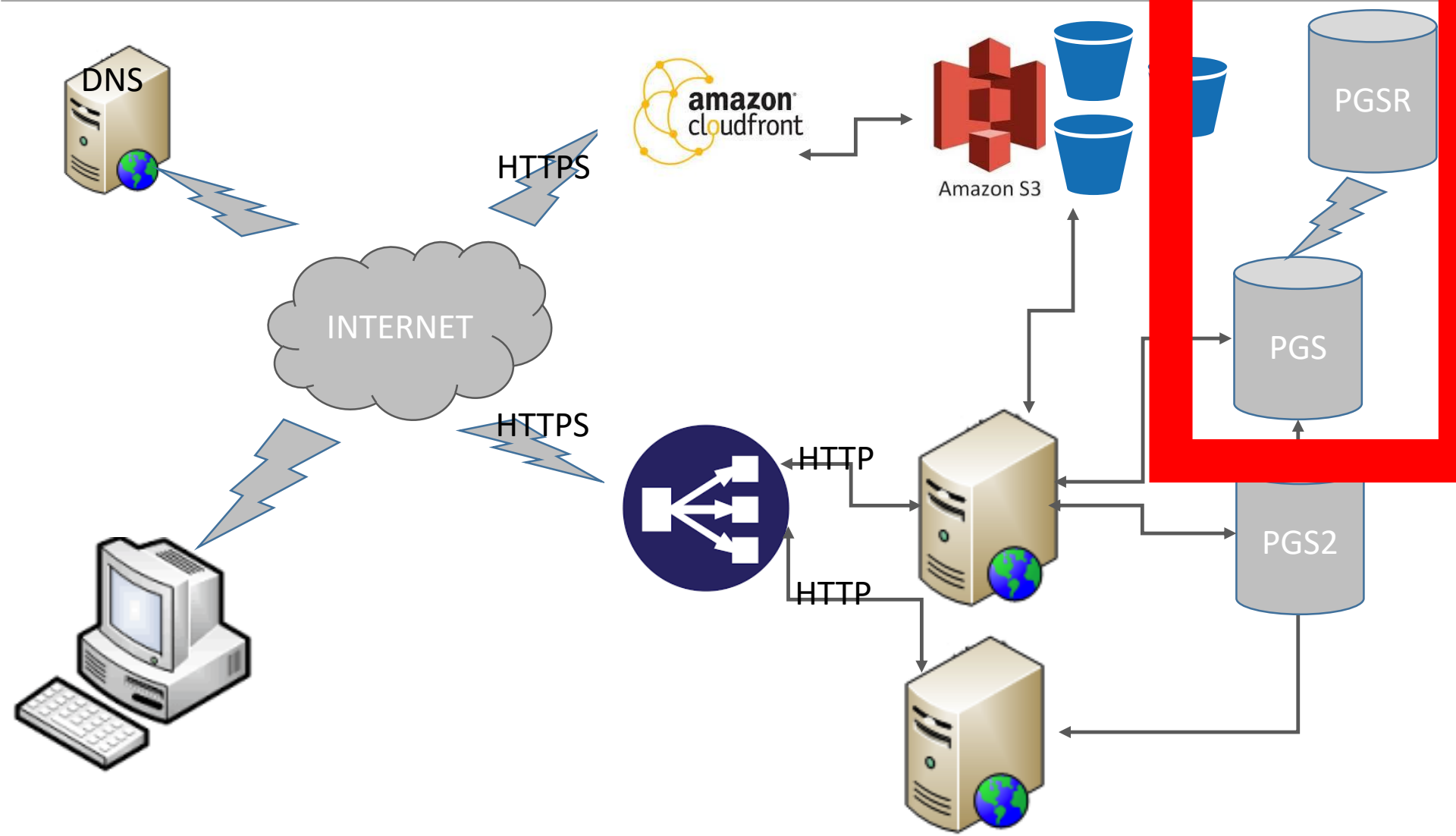
Amazon Cloudfront



Meerdere Db's



Replicatie Db



Amazon

Proof of concept succesvol

Voldoet goed aan alle eisen

Kosten flexibel en aanvaardbaar

Gekozen voor het 5GL! platform

Geen POC Microsoft/KPN of anderen

Amazon kosten

1 jaar free tier

Klein en licht gebruik: v.a. \$50 p/m

Zwaarder en heavy use: \$\$\$

1 of 3 jaar upfront: tot 65% korting

Amazon Overig

Veel andere features beschikbaar:

- AWS Lambda: runs code
- Storage / backup
- Identity & accessmanagement (IAM)
- AI
- Management tools
-

5GL!

<https://www.5gl.nl>

Mini Zaklamp Goodie



ONTDEK HET LICHT 5GL!

5GL! Cloudinfrastructuur

