

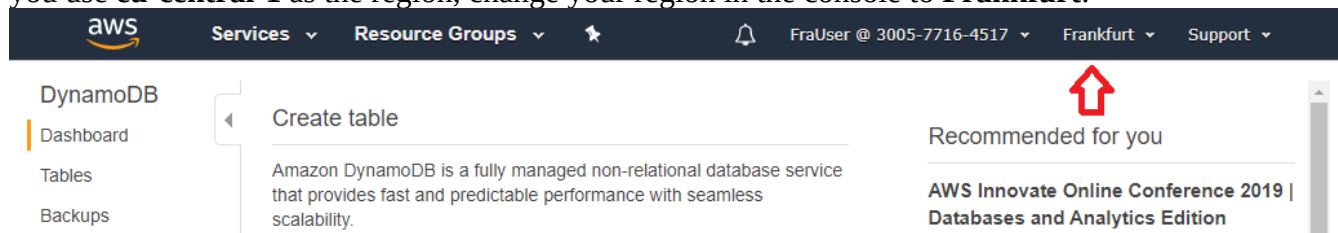
## **Frequently Asked Questions (FAQ) about the shop-1 example**

### **List of questions:**

- I used `./init-all.sh` to deploy the objects, but I don't see them in AWS...
- I lost the long URL from AWS to use it as an URL for the client tools. Where can I find it back?
- I changed a Lambda function in one of the directories under `AMIS-Blog-AWS/shop-1/shop/lambda` and then tried to use the `init-shop.sh` script to upload the changed Python script to AWS. Why doesn't this work?
- I got a 403 error from the API gateway. What am I doing wrong?
- I destroyed my Vagrant box before destroying my AWS environment. Can I destroy the objects manually?
- You use a lot of objects – what will it cost me when I enroll and use your shop example?
- Can I use a free tier account to play along?

### **I used `./init-all.sh` to deploy the objects, but I don't see them in AWS...**

Look at the region you are working in: is this the same region as you deployed your objects in? When you use **eu-central-1** as the region, change your region in the console to **Frankfurt**:



### **I lost the long URL from AWS to use it as an URL for the client tools. Where can I find it back?**

The simplest way to get it back, is to go to the shop directory (`AMIS-Blog-AWS/shop-1/shop`) and type the command `../terraform show`. The last lines two lines will be something like:

outputs:

```
invoke_url = "https://cyk9ts3q31.execute-api.eu-west-1.amazonaws.com/prod/shop"
```

You can then use it by going to the client directory and using the `encrypt_and_send.py` script:

```
cd AMIS-Blog-AWS/shop-1/client
./encrypt_and_send AMIS1 https://cyk9ts3q31.execute-api.eu-west-1.amazonaws.com/prod/shop
```

### **I changed a Lambda function in one of the directories under `AMIS-Blog-AWS/shop-1/shop/lambda` and then tried to use the `init-shop.sh` script to upload the changed Python script to AWS. Why doesn't this work?**

Terraform will not look at the timestamp of the zip file. So when there is a Lambda function with the correct name, it will assume that the content is also the same as it was.

Fastest solution: go to the shop directory and use the following commands to destroy all the shop objects and then redeploy the shop example:

```
cd AMIS-Blog-AWS/shop-1/shop
./destroy-shop.sh
./init-shop.sh
```

### **I got a 403 error from the API gateway. What am I doing wrong?**

Probably, you forgot the /shop part of the URL:

```
[vagrant@localhost client]$ ./encrypt_and_send.py AMIS1 https://amis.retsema.eu
Shop id      = AMIS1
Key alias    = alias/KeyJ-AMIS1
URL          = https://amis.retsema.eu
Data         = {"shop_id": "AMIS1", "content_base64":
"k2/6G7NTdc7t52dMqHc8hIRiAmRc2Z87gOS3smp17+Y+6ykSXZRM+XBWBcshuqpmDDWI4R082Vex//
NEaea9dLb65P6maPJL19QnYk6BVlF8vvP4DRtOZmDtdPA19FdGZdr/
iGSYSFNCQJlX2r9EAcBHI1iv87c7eftQ4YUfQbJ0o+PeYHByhq6FrISAvf/
1+0IvzutV5Z6jViQCSg99vy6ciC40LUSQYfyhFAA7sZIoeeG8EDVB5x9Q5In93DhXHOnSyJNs26/
UVAUss8cwhkruBcf5Kvm4gE2+TM449WjEC/bx1uy/o+Jagpy07pPmjeTSuEBaYnNdpI/nUOuX9Q==" }
request_number = 1
Status code    = 403
Content        = b'{"message": "Missing Authentication Token"}'
```

Solution: add /shop to the URL:

```
[vagrant@localhost client]$ ./encrypt_and_send.py AMIS1 https://amis.retsema.eu/shop
Shop id      = AMIS1
Key alias    = alias/KeyJ-AMIS1
URL          = https://amis.retsema.eu/shop
Data         = {"shop_id": "AMIS1", "content_base64":
"ZPdNb+rliozwIUap20JkL0R3bYvepZR9myvp1xYJANqPlV5M7+Ai7N0CrVI7dP7C/
pdgjpgRZAeCdChs+tkkrfpp8FTeyUsnu4WzEEU0Nqhc+6izQtyaGoibEK4mctcMzrhfEI2wbbZuqVSm+XLogE0nxocQ
+Pj99DH6AQnI4xc9MBoSN+HFjst9hL7/
IhESYM10JyBYoxrfP40699fxhkp5piYN4DZpM2rxvw93PEmt7wQaPUNVP72amfXsrK21BZPpHypecx1BBSwkIaNE1Xu
OZar0BKx/kKd3LXZGvmZF0eFP2d91SdYHkAFly3mmq6YKhwvBdHT0zb0WzMAS/g==" }
request_number = 1
Status code    = 200
Content        = b'"OK"'
```

**I destroyed my Vagrant box before destroying my AWS environment. Can I destroy the objects manually?**

Yes, you can. This is a list of places where to look for objects:

#### **init-cert.sh:**

**Certificate Manager** > Certificate manager

**Route53** > Hosted zones > your-domain-name >

- a CNAME record which is used to check if you owned the domain while requesting a certificate for example:

\_737c89388ce141925aefa00b332f8de1.retsema.eu, with value  
\_37812d6ffa713cfcf8ebc1117fc2f271.nhqijqilxf.acm-validations.aws.

Please mind, that there might also be an A record amis.<your-domain-name> (f.e. amis.retsema.eu) in this domain, which is added by the init-shop.sh script.

#### **Init-infra.sh:**

**IAM** > policies (search for AMIS)

> roles (search for AMIS)

**KMS** > Customer managed keys

**DynamoDB** > Tables

#### **init-shop.sh:**

Please mind, that the objects in the API gateway have dependencies on each other. When you delete them in the order that they are below, then you shouldn't have problems:

**Route53** > Hosted zones > your-domain-name >

- an A record amis.your-domain-name. For example:  
amis.retsema.eu, which has an alias target of d-7mbsbho886.execute-api.eu-west-1.amazonaws.com.

**API Gateway** > Custom Domain Names (if you used your own domain name)

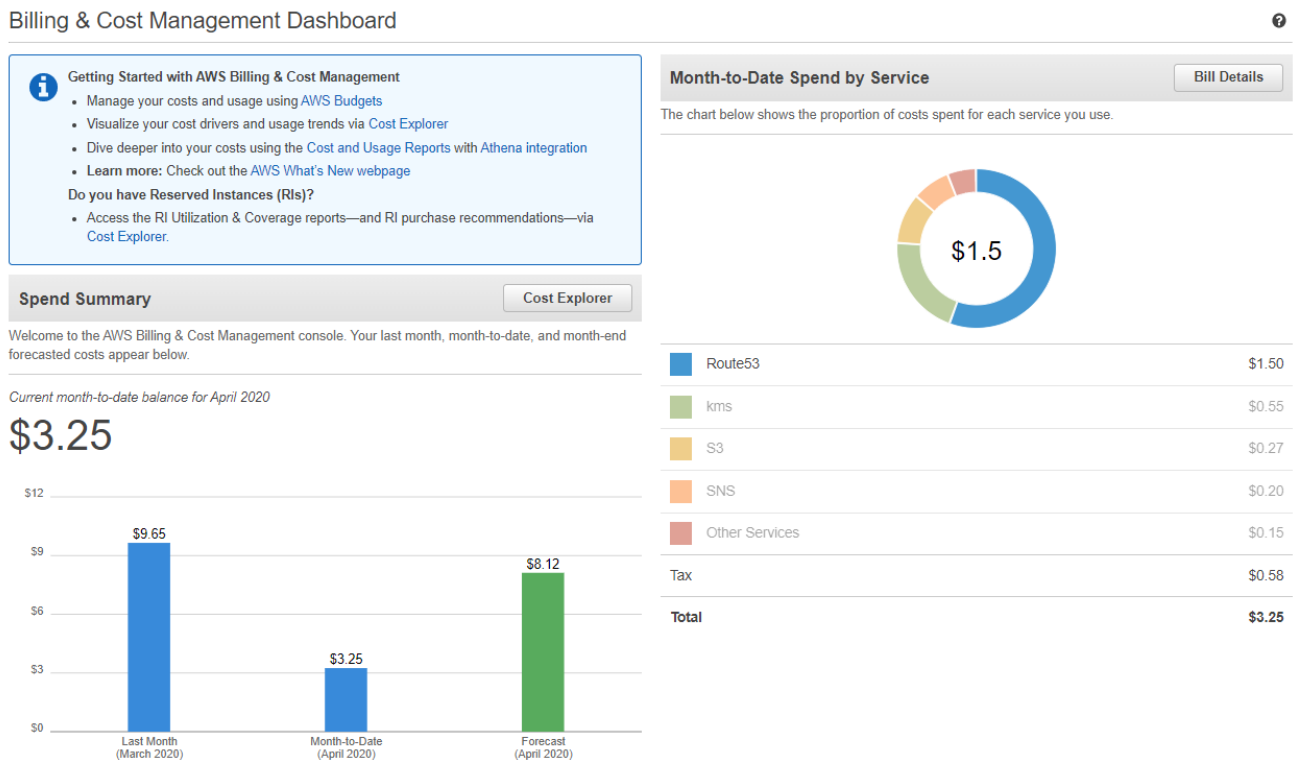
> Resources

**Lambda** > APIs

**SNS** > Topics

**You use a lot of objects – what will it cost me when I enroll and use your shop example?**

I used AWS a lot to write this example and the blogs that are about this example. I can show you my bill: it's April 13 when I write this faq:



You see here, that most of my costs are for Route53 (I use three public domain names in Route53). I also use s3 for personal files, these costs have nothing to do with the shop example.

The costs of KMS are there because keys that are destroyed are not destroyed immediately, but after 7 – 30 days. On this moment, about 270 keys are waiting to be destroyed.

The costs for SNS and Other services (DynamoDB, Lambda) are spent on this example.

When I would continue to use AWS the same amount of time and resources as I am using it now, then the costs for this example shop will be around  $(\$0.55 + \$0.20 + \$0.15) \times 30 / 12 = \$ 2,25$  per month. When you use this example, your costs will probably be much lower.

There is one way to keep the costs down: destroy all objects that you don't use anymore. So: every time you stop looking at this example, use the `destroy-all.sh` script in the home directory of the Vagrant user.

**Can I use a free tier account to play along?**

Yes, you can:

- The API gateway includes one million API calls
- Lambda provides 400 GB per second and one million requests for free
- The first million SNS push notifications are free
- DynamoDB offers 25GB of indexed storage, 25 write units and 25 read units
- Route53, Certificate Management don't offer free tier

When you look at this list, 25 write units and 25 read units are not that much, so you might have to pay a little bit. But see the answer to the previous question: you really have to do very much effort to get your monthly bill over \$2,25...