Backup of Redash

Backing up of stage fun2 redash periodically.

We are doing regular backups to azure blob storage using the following script

Pre-flight checks

1. To authenticate with azure we should give azure environment variables in the script as shown below

2. Copy the key from azure UI by following this path

3. Install the Azure CLI on Linux

```
sudo rpm --import https://packages.microsoft.com/keys/microsoft.asc
```

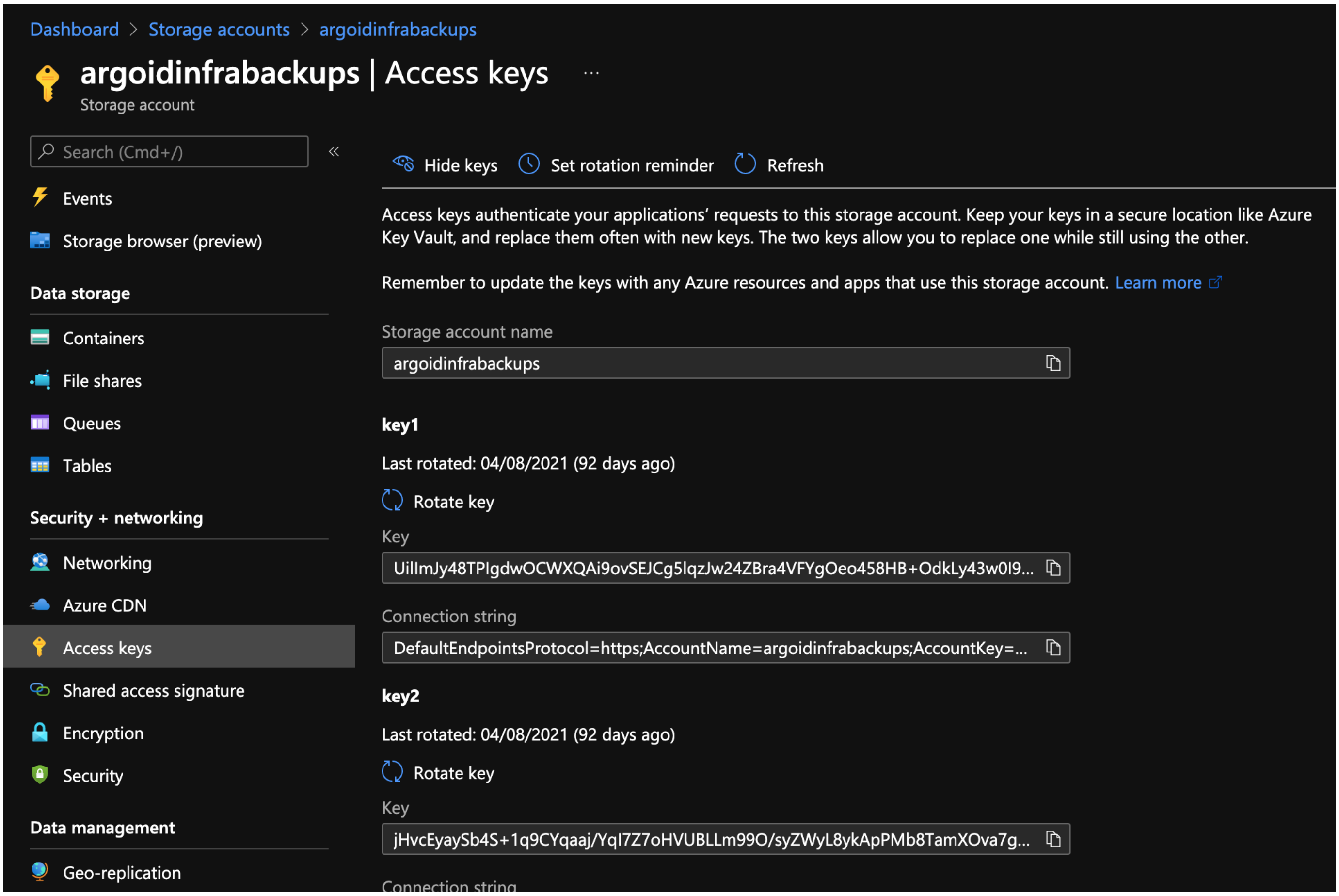
```
echo -e "[azure-cli]
name=Azure CLI
baseurl=https://packages.microsoft.com/yumrepos/azure-cli
enabled=1
gpgcheck=1
gpgkey=https://packages.microsoft.com/keys/microsoft.asc" | sudo tee
/etc/yum.repos.d/azure-cli.repo
```

```
sudo yum install azure-cli
```

To fetch the access keys.

To fetch the access keys we need to login to azure portal Storage accounts argoidinfrabackups container.

Click on Access keys, we can view the access keys by clicking on show keys.



argoidinfrabackups | Access keys

Access keys authenticate your applications' requests to this storage account. Keep your keys in a secure location like Azure Key Vault, and replace them often with new keys. The two keys allow you to replace one while still using the other.

Remember to update the keys with any Azure resources and apps that use this storage account. Learn more

Storage account name: argoidinfrabackups

key1

Last rotated: 04/08/2021 (92 days ago)

Key: UiIlmJy48TPIgdwOCWXQAi9ovSEJCg5lqzJw24ZBra4VFYgOeo458HB+OdkLy43w0I9...

Connection string: DefaultEndpointsProtocol=https;AccountName=argoidinfrabackups;AccountKey=...

key2

Last rotated: 04/08/2021 (92 days ago)

Key: jHvcEyaySb4S+1q9CYqaaj/YqI7Z7oHVUBLLm99O/syZWyL8ykApPMb8TamXOva7g...

Connection string

Home>argoidinfrabackups >Access keys>Show keys

3. The key found in it must be stored in the `AZURE_STORAGE_KEY` property

4. keep the environment variables in crontab as shown below

```
#SHELL=/bin/bash

##export azure properties
AZURE_STORAGE_KEY="Uil******************************D2PwlwpoOVovoRiA=="
AZURE_STORAGE_AUTH_MODE="key"
AZURE_STORAGE_ACCOUNT="argoidinfrabackups"
AZURE_STORAGE_CONNECTION_STRING="DefaultEndpointsProtocol=https;
AccountName=argoidinfrabackups;
AccountKey=UilI****************************0I9LEhD2PwlwpoOVovoRiA==;
EndpointSuffix=core.windows.net"
```

Step1:-Scripts to backup

Placed the scripts in /opt/redash_backup_scripts in stage fun2 redash instance 192.0.1.28 VM

```
#!/bin/bash
#created by vasu
##created on 2021-09-06 ist

date=$(date '+%Y-%m-%d_%H:%M:%S')
pg_dump_backup_dir=/opt/redash_backup/pg_dump/pg_dump_$date.sql
redash_secret_key_dir=/opt/redash_backup/redash_secret_key
/redash_secret_key_$date
redash_container=redash-stage-backups
azure_backup=/opt/redash_backup/
docker_container_secret=redash_server_1
docker_container_postgres=redash_postgres_1
logrotate_script=/root/logrotate_redash.sh

##"Backup the postgres database"
docker exec $docker_container_postgres  pg_dump -U postgres postgres >>
$pg_dump_backup_dir

## "Backup redash secret key"
docker inspect $docker_container_secret | grep REDASH_SECRET_KEY >>
$redash_secret_key_dir

## "azure syncing with azure blob"
az storage azcopy blob sync --container $redash_container  -s
$azure_backup

## "calling the log rotation script"
bash "$logrotate_script"
```

Step2:-Logrotation script

Also configured log rotation script and calling the script at the end

```
#!/bin/bash
##created by vasu
##created on 28-05-2021
#filepath=<path>
delfilepath=/opt/redash_backup/
#deldirpath=<path>

#To gzip the files older than 2 days
for f in $(find $filepath -name "*.log" -mtime +2 -type f) ;
 do
  # filename=`echo $f | awk -F '/' '{print $NF}'`;
  gzip  $f
  echo "$f"
 done

#To delete the .sql files older than 5 days
find $delfilepath -mtime +5 -type f -delete

#To delete the directories older than 9 days
#find $deldirpath -mtime +9 -type d -empty -delete
```

The backups will be copied into the azure blobs(argoind-infra-backups)

Step3:-New instance restoration

we have to install the redash by using the following documentation in new instance

Redash Installation

Step4:-Download the backups

we can download the backups from Home>Storage accounts>argoidinfrabackups>redash-stage-backups

Step5:-Postgres data upgradation

Go to the latest file and download the Postgres database and data
we can use the following command to restore the Postgres data

First, we should clear the Postgres database using the following commands

```
DROP SCHEMA postgres CASCADE;
drop schema public cascade;
CREATE SCHEMA public;
```

then,

we need to copy the latest `pg_dump.sql` file into the docker container

```
sudo docker cp pg_dump.sql redash_postgres_1:./
sudo docker exec -it redash_postgres_1 psql -U postgres -d postgres -f
pg_dump.sql
```

Step6:-Restart the docker containers

We need to restart the docker containers

Step7:- Final checks

1. We need to check whether the data and schema is copied into the new Postgres
2. Check for the data sources