aws云实例创建SNS实现邮件报警和自动恢复

笔记本: warship

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一、环境准备

1、安装python2.6.6(略)

2、安装aws-cli

(1)、下载aws-cli

curl "https://s3.amazonaws.com/aws-cli/awscli-bundle.zip" -o "awscli-bundle.zip"

unzip awscli-bundle.zip

安装可执行文件

sudo ./awscli-bundle/install -i /usr/local/aws -b /usr/local/bin/aws

Running cmd: /usr/bin/python virtualenv.py --no-download --python /usr/bin/python /usr/local/aws

Running cmd: /usr/local/aws/bin/pip install --no-index --find-links file:///usr/local/src/awscli-bundle/packages

awscli-1.11.156.tar.gz

You can now run: /usr/local/bin/aws --version

(2)、配置环境变量

可以在任一台能连接外网的主机上安装完aws cli 包,并且在该上配置好环境变量,就可以操作线上账号下的所有机器资源了 # aws configure

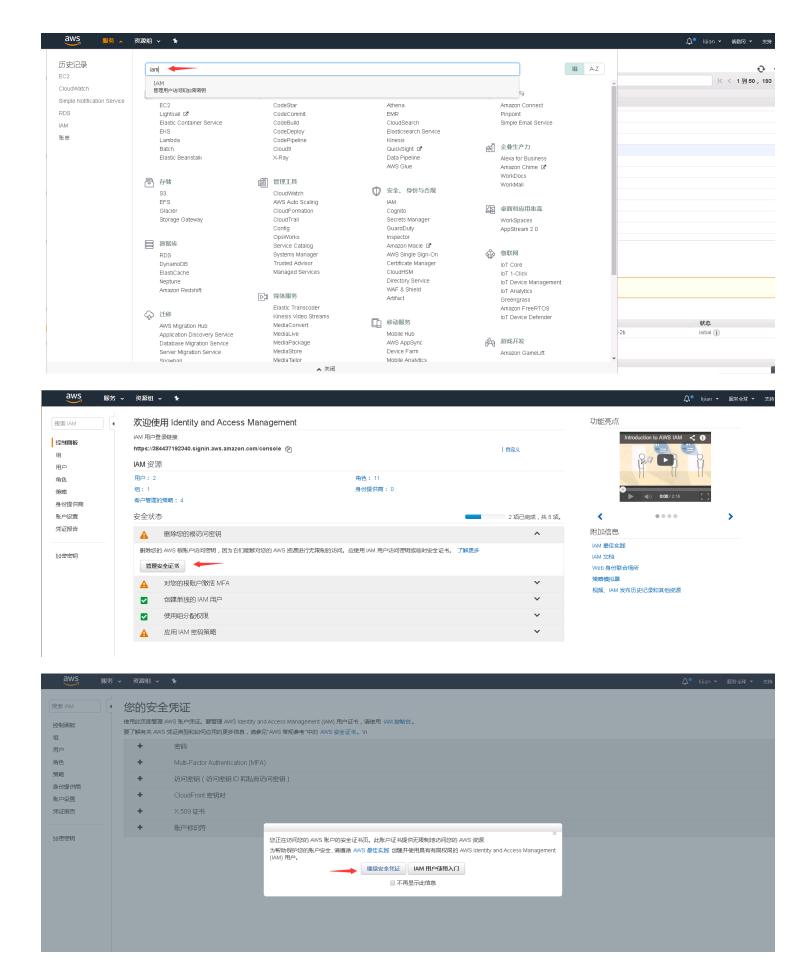
AWS Access Key ID [None]: AKIAIALPCYTAHD7RQNEQ

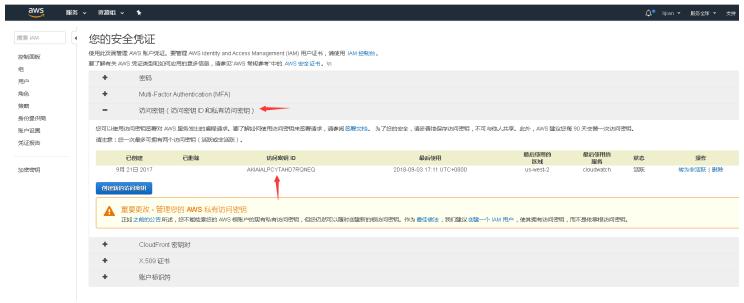
AWS Secret Access Key [None]: I803qrH3GUl0scAxL1uFJccmuNo/r2ffEqWrM5gB

Default region name [None]: us-west-2 Default output format [None]: json

或者编辑

mkdir /root/.aws
cd /root/.aws
vim config
[default]
aws_access_key_id=AKIAIALPCYTAHD7RQNEQ
aws_secret_access_key=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
output = json
region = us-west-2





(3)、使用

参考: http://docs.aws.amazon.com/cli/latest/reference/rds/describe-db-log-files.html

默认情况下aws命令接受的输入和输出格式数据格式都是json格式,不过也可以通过参数,指定输出的为table表格式或text文件格式,具体可以使用aws help查看帮助手册。默认aws cli 的包文件存放路径为 /usr/local/lib/python2.7/dist-packages/awscli ,也可以进该目录下的examples 查看帮助。

复杂用法

aws ec2 describe-tags --filters "Name=key, Values=Name" --output=table

2)、rds

打开日志记录

slow_query_log: To create the slow query log, set to 1. The default is 0.

general_log: To create the general log, set to 1. The default is 0.

long_query_time: 3

log_output option: You can specify one of the following options for the log_output parameter.

TABLE (default) - Write general queries to the mysql.general_log table, and slow queries to the mysql.slow_log table.

FILE- Write both general and slow query logs to the file system. Log files are rotated hourly.

NONE- Disable logging.

查看日志

aws rds describe-db-log-files --db-instance-identifier warships-log --output text

aws rds download-db-log-file-portion --db-instance-identifier ttlsa --starting-token 0 --output text --log-file-name general/mysql-general.log

aws rds download-db-log-file-portion --db-instance-identifier warships-6 --starting-token 0 --output text --log-file-name slowquery/mysgl-slowquery.log.2017-09-22.01

/rdsdbbin/oscar/bin/mysqld, Version: 5.6.10 (MySQL Community Server (GPL)). started with:

Tcp port: 3306 Unix socket: /tmp/mysql.sock
Time Id Command Argument

II slow.txt

-rw-r--r-- 1 root root 0 Sep 22 00:47 slow.txt

创建rds

aws rds create-db-instance \

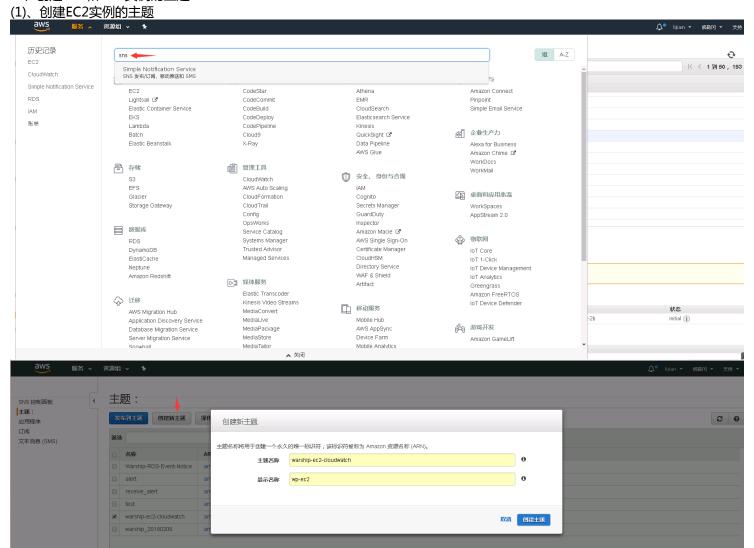
- --db-instance-identifier mydbinstance \
- --db-instance-class db.m1.small \
- --engine mariadb \
- --allocated-storage 20 \
- --master-username masteruser \
- --master-user-password masteruserpassword \
- --backup-retention-period 3

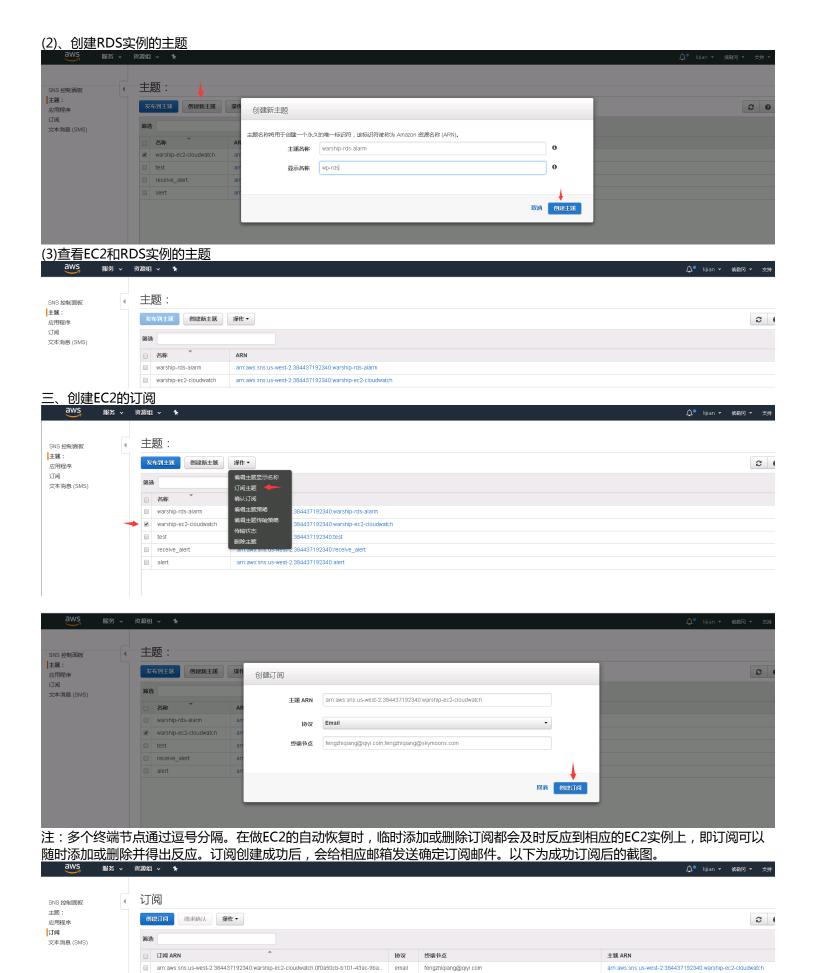
输出:

DBINSTANCE mydbinstance db.m1.small mariadb 20 sa creating 3 **** n 10.0.17 SECGROUP default active

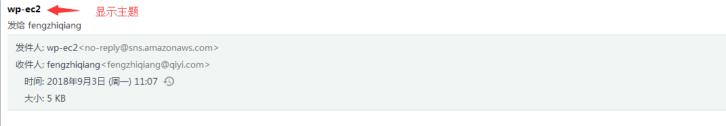
PARAMGRP default.mariadb10.0 in-sync

二、创建EC2和RDS实例的主题





AWS Notification - Subscription Confirmation *



You have chosen to subscribe to the topic:

arn:aws:sns:us-west-2:384437192340:warship-ec2-cloudwatch

To confirm this subscription, click or visit the link below (If this was in error no action is necessary): Confirm subscription

Please do not reply directly to this email. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send an email to sns-opt-out



Simple Notification Service

Subscription confirmed!

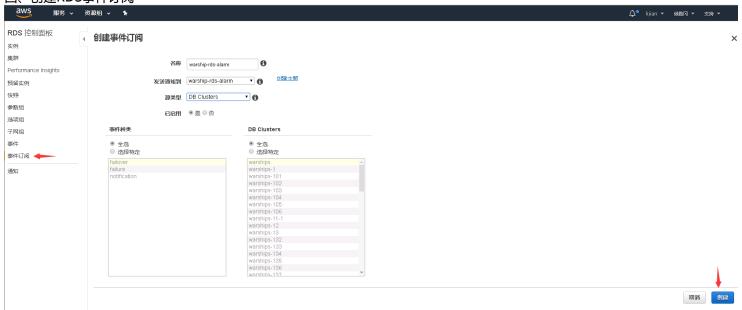
You have subscribed fengzhiqiang@qiyi.com to the topic: warship-ec2-cloudwatch.

Your subscription's id is:

arn:aws:sns:us-west-2:384437192340:warship-ec2-cloudwatch:0f0a50cb-b101-43ac-9bab-44c649ea81d0

If it was not your intention to subscribe, click here to unsubscribe.

四、创建RDS事件订阅



五、通过脚本批量添加EC2的Cloudwatch报警

(1)、编写脚本

#vim /root/.aws/aws.sh

#!/bin/bash

grep -v "^#" instance-id.20180903|while read INSTANCE_ID

do

aws cloudwatch put-metric-alarm --alarm-name "recover-instance ".\$INSTANCE_ID --alarm-description "Recover Instance" --namespace AWS/EC2 --dimensions Name=InstanceId,Value=\$INSTANCE_ID --actions-enabled --statistic Average --metric-name StatusCheckFailed --comparison-operator GreaterThanThreshold --threshold 0 --period 60 --evaluation-periods 2 --alarm-actions arn:aws:automate:us-west-2:ec2:recover arn:aws:sns:us-west-

2:384437192340:warship-ec2-cloudwatch --region us-west-2

if [\$? -eq 0]; then

echo \$INSTANCE_ID add success. | tee /tmp/aws_`date +%Y%m%d`.log else

echo \$INSTANCE_ID add fail. | tee /tmp/aws_`date +%Y%m%d`.log

fi

done

- (2)、维护EC2实例ID列表
- (3)、执行脚本并输出日志
- 六、显示cloudwatch告警列表

