Efs (Elastic file system)

**This is region specific**

**not availability zone specific imp**

It means share with your storage (data)

## Efs with DNS

Steps :-

Create any **vpc \_newvpc**

Go to the **instance**

**Lunch instance**  **first**

Name :- **efs1-instance**

**T2 micro**

Key:- **newkey**

**Create security group**

Name :- **efs-SG**

Vpc select -**new select**

***Subnet 1a***

**Auto assign public ip**

**Enable**

**Add port**

**Nfs :- anywhere :- 0.0.0.0/0**

**Lunch**

**Lunch instance Second**

Name :- **efs2-instance**

**T2 micro**

Key:- **newkey**

**Select existing group**

**Vpc select -new select**

**Subnet 1c**

**Auto assign public ip**

**Enable**

**Lunch**

Go to **efs**

**Create file system**

Name:-**efs-new**

Vpc :- **newvpc**

**Select customize**

**Next**

Vpc :- **newvpc**

**Availablity zone security group**

***1a select -efs-SG***

***1b select -efs-SG***

***1c select -efs-SG***

**Next**

**Next**

**Create**

Select **efs id**

Then **attach**

Then you see the **two option**

**1.mount via DNS** 2. Mount via ip

**Select 1.**

Then **copy the command**

Back to the **instance**

Connect any **efs instance**

**Sudo mkdir efs**

**Paste :- now you see the error of unknown file system**

**sudo mount -t efs -o tls fs-0cc0d3c43f324ae0d:/ efs**

**Then**

**Sudo yum install -y amazon-efs-utils**

Then **paste**

**sudo mount -t efs -o tls fs-0cc0d3c43f324ae0d:/ efs**

Now you see the **mounting is done**

**cd efs**

**sudo touch file{1..5}**

then go the **2nd instance**

**sudo mkdir efs**

then **paste** :- same now you see the error

**sudo yum install package -y amazon-efs-utils**

**paste**

**sudo mount -t efs -o tls fs-0cc0d3c43f324ae0d:/ efs**

cd **efs**

**now you see the files**

# for testing tomcat script for two instance is connected or not

**connect any one instance (efs1)**

**cd efs**

**sudo vim script.sh**

#!/bin/bash

sudo yum update-y

sudo yum install java-openjdk -y

cd /home/ec2-user/efs

sudo wget https://dlcdn.apache.org/tomcat/tomcat-8/v8.5.84/bin/apache-tomcat-8.5.84.zip

sudo unzip apache-tomcat-8.5.84.zip

cd ./apache-tomcat-8.5.84

sudo wget https://s3-us-west-2.amazonaws.com/studentapi-cit/student.war

sudo mv student.war ./webapps

cd bin

sudo chmod +x catalina.sh

sudo ./catalina.sh start

**sudo chmod 700 efs**

**sudo ./script.sh**

go to this **instance efs1**

copy **public ip then paste** :- now you see the blank we can not add port of tomcat

then **first add port to the any instance**

select **efs1**

**security group:- openlink:- inbound rule :- 8080 :- 0.0.0.0/0 : anywhere**

then hit the **efs1 ip :8080** – now you see the tomcat page

**ip:8080/student**

go to the **2nd instance**

copy ip then paste **ip:8080** now you see the blank bcoz 2nd instance don’t have a package of java first install

**sudo yum install java-openjdk -y**

**first start catlina.sh then hit**

**ip 2nd instance :8080** now you see the page of tomcat

**ip 2nd instance:8080/student**

# efs with ip :-

Steps :-

Create any **vpc \_newvpc**

Go to the **instance**

**Lunch instance** first

Name :- **efs1-instance**

T2 micro

Key:- **newkey**

**Create security group**

Name :- **efs-SG**

Vpc select -**new select**

**Subnet 1a**

**Auto assign public ip**

**Enable**

**Add port**

**Nfs :- anywhere :- 0.0.0.0/0**

**Lunch**

**Lunch instance**  Second

Name :- **efs2-instance**

**T2 micro**

Key:- **newkey**

**Select existing group**

**Vpc select -new select**

**Subnet 1c**

**Auto assign public ip**

**Enable**

**Lunch**

Go to **efs**

**Create file system**

Name:-**efs-new**

Vpc :- **newvpc**

**Select customize**

**Next**

Vpc :- **newvpc**

**Availablity zone security group**

**1a select -efs-SG**

**1b select -efs-SG**

**1c select -efs-SG**

**Next**

**Next**

**Create**

Select **efs id**

Then **attach**

Then you see the **two option**

1.mount via DNS **2. Mount via ip**

Select 2.

Then **copy** the **command**

**sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 192.168.0.188:/ efs**

Back to the **instance**

Connect any **efs instance**

**Sudo mkdir efs**

**Paste**  :- **now you see the error of unknown file system**

**Then**

**Sudo yum install -y amazon-efs-utils**

Then **paste**

**sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 192.168.0.188:/ efs**

Now you see the **mounting is done**

**cd efs**

**sudo touch file{1..5}**

then go the **2nd instance**

**sudo mkdir efs**

then **paste**  :- same now you see the error

**sudo yum install package -y amazon-efs-utils**

**paste**

**sudo mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 192.168.0.188:/ efs**

**cd efs**

**now you see the files**