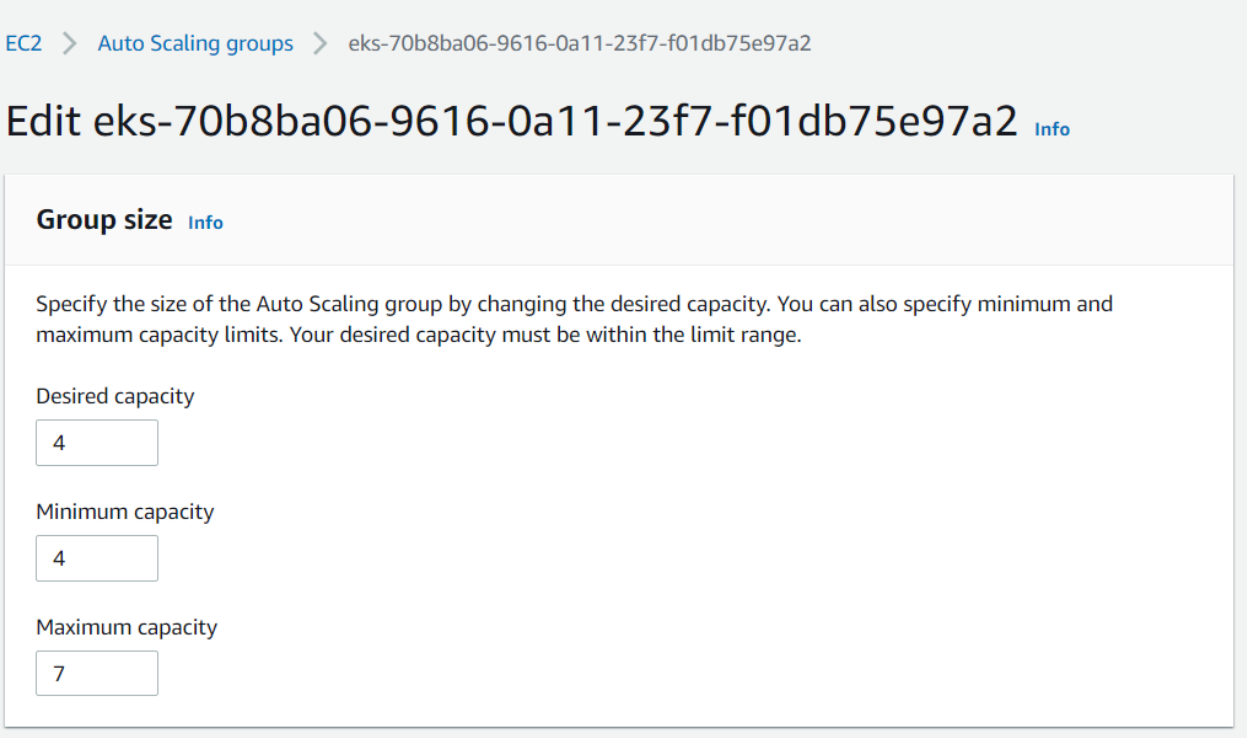
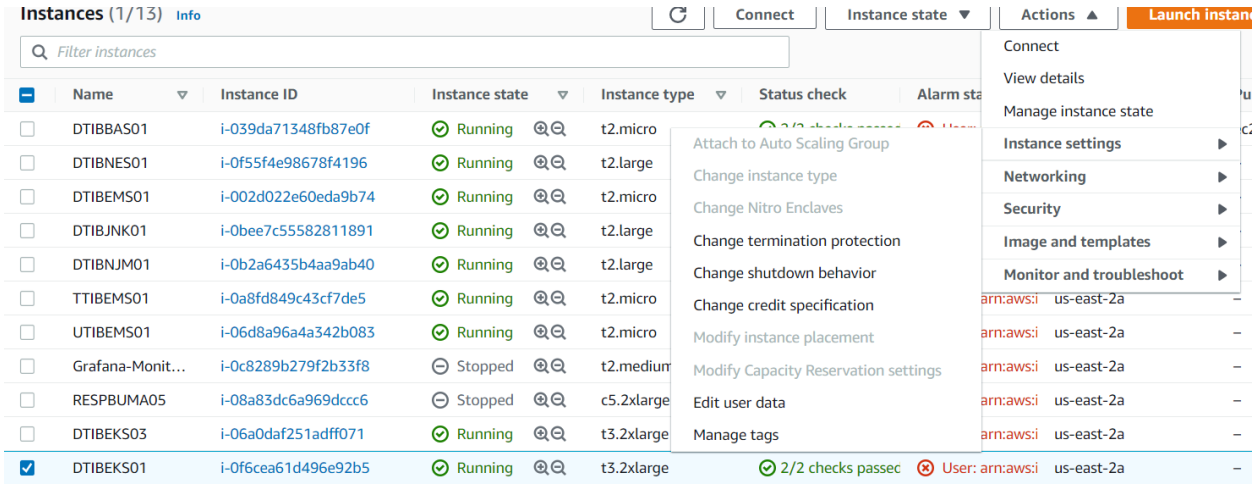
Kubernetes Migration – Development :

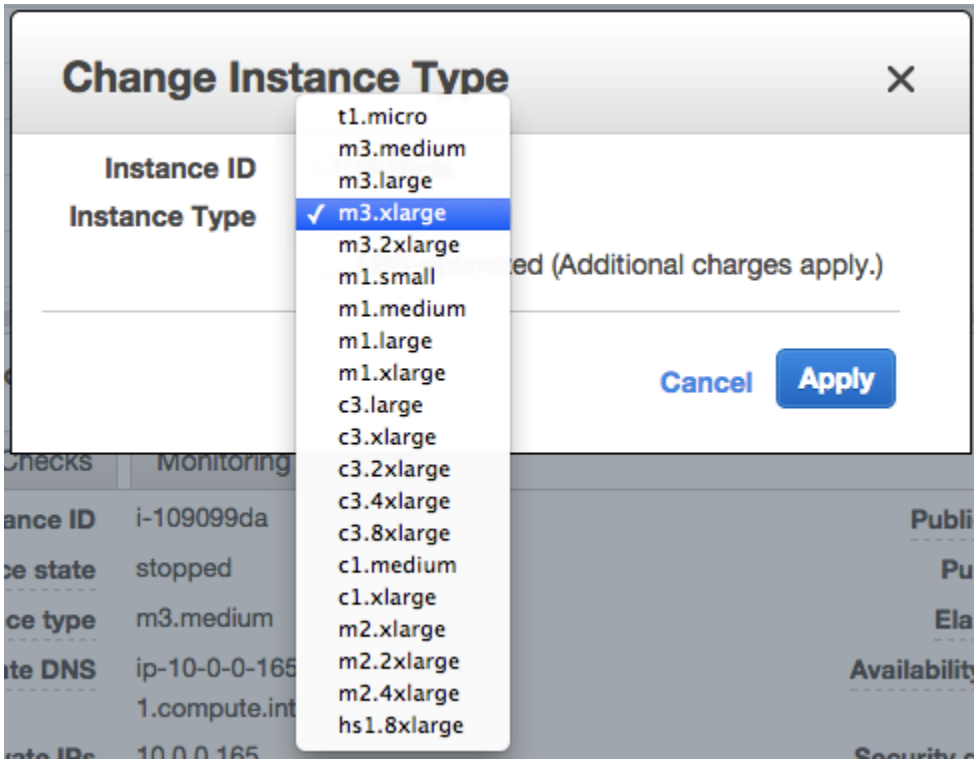
1. Add the EKS nodes from prevent termination in AWS
2. Scale up nodes as required by giving the capacity, as shown in below screenshot for ref.



3. After the new instances are spined up, earlier we **t2.large** configuration



Stop the Instance, change instance type to **t2xlarge**



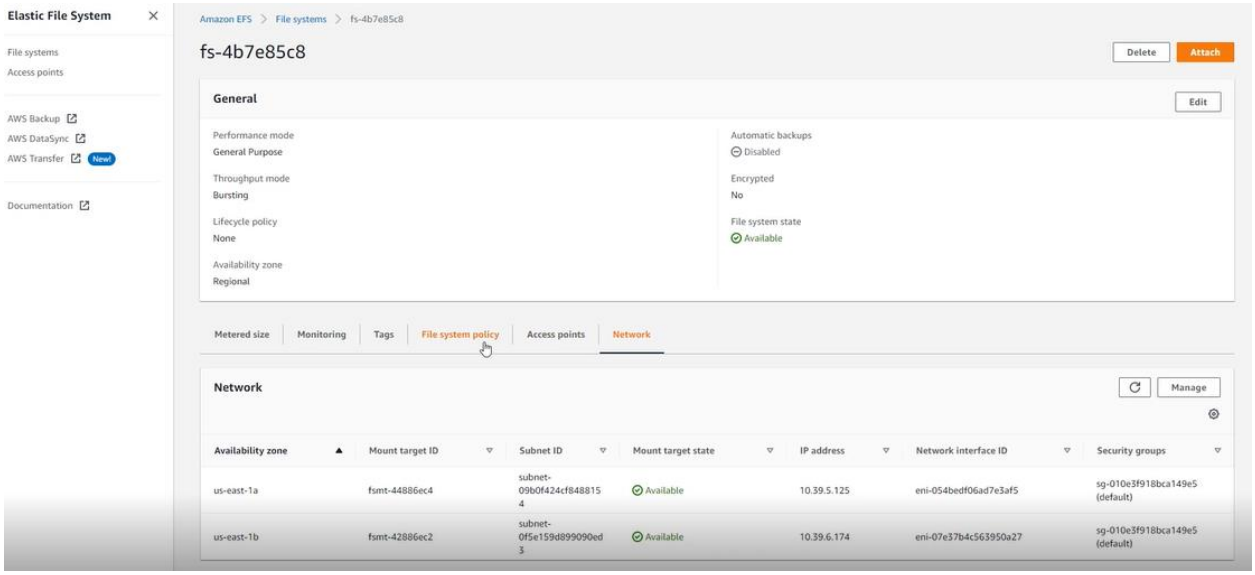
Earlier we have t2.large = 4 CPU, RAM = 16 GB

Upgraded cluster size,

t2xlarge = 8 CPU, RAM = 32 GB provided with (Accelerated Performance)

4. Now as per our architecture we need to add EFS- Mount point.

   Amazon EFS > File Systems

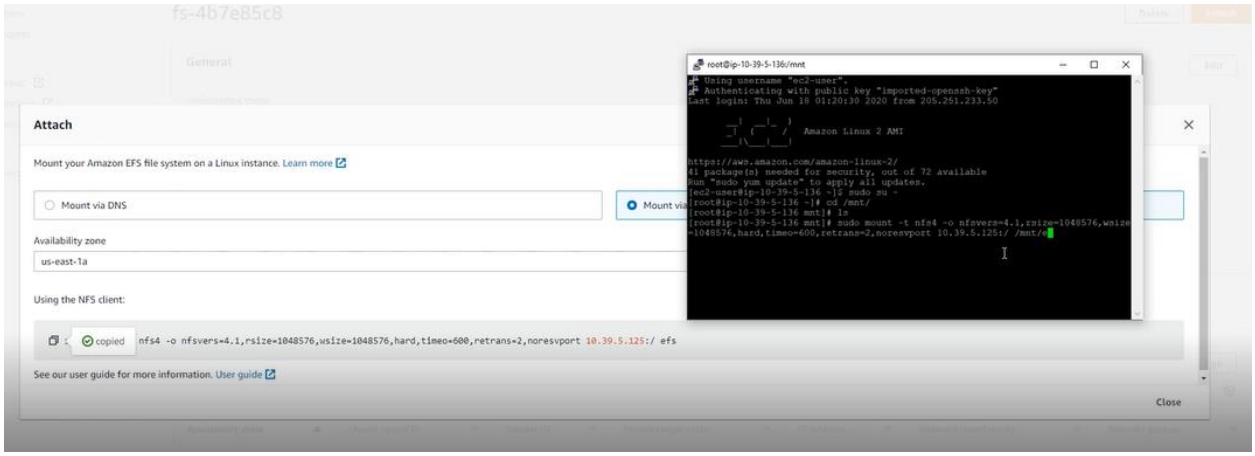


5. Attach Mount points to New Instances.

mkdir -p /mnt/efs

cd efs

copy and attach the mount as shown below



6. Make as permanent mount adding in /etc/fstab

   Add below,

   [ec2-user@ip-10-38-43-93 ~]$ cat /etc/fstab
   #pjdeshr01.resources.howardhughes.com
   //10.32.106.10/jde92 /mnt/pjdeshr01/jde92 cifs credentials=/home/ec2-user/
   pjdeshr01-credentials,noperm 0 0

   //10.32.106.10/Mediaobj /mnt/pjdeshr01/mediaobj cifs credentials=/home/ec2-user/
   pjdeshr01-credentials,noperm 0 0
   #respjdedp01.resources.howardhughes.com
   //10.32.100.64/jde91 /mnt/respjdedp01/jde91 cifs credentials=/home/ec2-user/resp
   jdedp01-credentials,noperm 0 0

   //10.32.100.64/MediaObj /mnt/respjdedp01/mediaobj cifs credentials=/home/ec2-use
   r/respjdedp01-credentials,noperm 0 0

   ec2-user@ip-10-38-43-93:~

```
[ec2-user@ip-10-38-43-93 ~]$ cat /etc/fstab
#
UUID=86f833b3-2706-482a-80ce-64ed1d83a94d     /           xfs    defaults,noatime  1   1

#pjdeshr01.resources.howardhughes.com

//10.32.106.10/jde92    /mnt/pjdeshr01/jde92    cifs credentials=/home/ec2-user/pjdeshr01-credentials,noperm 0 0

//10.32.106.10/Mediaobj /mnt/pjdeshr01/mediaobj cifs credentials=/home/ec2-user/pjdeshr01-credentials,noperm 0 0

#respjdedp01.resources.howardhughes.com

//10.32.100.64/jde91 /mnt/respjdedp01/jde91 cifs credentials=/home/ec2-user/respjdedp01-credentials,noperm 0 0

//10.32.100.64/MediaObj /mnt/respjdedp01/mediaobj cifs credentials=/home/ec2-user/respjdedp01-credentials,noperm 0 0
[ec2-user@ip-10-38-43-93 ~]$
```

7. After applying above changes restart the Instances, if it is not restarted then pods will not properly communicate with the EFS - Mount Point.
8. After restart make sure all pods are scaled up in all the namespace we have.

```
arun@arun-persistent:~$ kubectl get deploy -n tibco-dev
NAME                                      READY   UP-TO-DATE   AVAILABLE   AGE
esb-appianworkdayrr                       1/1     1            1           370d
esb-birchstreetvendorinvoice              1/1     1            1           367d
esb-blacklinetojdejournals                1/1     1            1           217d
esb-butoappian                            1/1     1            1           370d
esb-chathamtoappian                       1/1     1            1           370d
esb-concurexpfilebased                    1/1     1            1           340d
esb-concurjdeexpprocessing                1/1     1            1           370d
esb-concurjdeexpvalidation                1/1     1            1           370d
esb-concurjdevalidationrules              1/1     1            1           370d
esb-coupaebuilder-po                      1/1     1            1           42d
esb-coupajde-po                           1/1     1            1           28d
esb-coupajdeapprovedinvoices              1/1     1            1           209d
esb-coupajdesim                           1/1     1            1           188d
esb-criticaldates                         1/1     1            1           336d
esb-ebuilderjde-bciimportexport           1/1     1            1           247d
esb-ebuildersubledgertoblackline          1/1     1            1           173d
esb-employeeoffboarding                   1/1     1            1           238d
esb-jdecoupacoa                           1/1     1            1           185d
esb-jdecoupainvoicepayments               1/1     1            1           180d
esb-jdecoupajabudgets                     1/1     1            1           31d
esb-jdecoupasuppliers                     1/1     1            1           180d
esb-jderunwaylotinformation               1/1     1            1           125d
esb-jderunwaytakedownscheduleextract      1/1     1            1           34d
esb-jdespocoamaintenancefeed              1/1     1            1           228d
esb-jdetoappianbillingrr                  1/1     1            1           63d
esb-jdetoappianrr                         1/1     1            1           370d
esb-jdetoblacklineap                      1/1     1            1           264d
esb-jdetoblacklinear                      1/1     1            1           264d
esb-jdetoblacklineextractions             1/1     1            1           83d
esb-jdetoblacklinefa                      1/1     1            1           264d
esb-jdetoblacklinegl                      1/1     1            1           279d
esb-jdetoblacklineslr                     1/1     1            1           259d
esb-jdetoblacklinevalidations             1/1     1            1           220d
esb-jdetosalesforceaddress                1/1     1            1           370d
esb-jdetosalesforcelease                  1/1     1            1           336d
esb-jdetosalesforceleaseintegration       1/1     1            1           196d
esb-jdetosalesforcemls                    1/1     1            1           315d
esb-jdetosalesforceproperty               1/1     1            1           220d
```

9. Log into the pod and check whether the data is available in the efs-mount points as shown below.

```
arun@arun-persistent:~$ kubectl exec -it esb-coupajdeapprovedinvoices-79f5d9fb8f-vhpnz -n tibco-dev -- sh
$ bash
bwce@esb-coupajdeapprovedinvoices-79f5d9fb8f-vhpnz:/$ ls
OPR_INV_CoupaJDE_ApprovedInvoices.application-1.0.0-SNAPSHOT.ear  boot  efs-mount  home  lib64  mnt  proc               resources  run   scripts  sys  usr
bin                                                               dev   etc        lib   media  opt  reducedStartupTime  root       sbin  srv      tmp  var
bwce@esb-coupajdeapprovedinvoices-79f5d9fb8f-vhpnz:/$ cd efs-mount/
bwce@esb-coupajdeapprovedinvoices-79f5d9fb8f-vhpnz:/efs-mount$ ls
JE          auth       blacklinegl  coupa         hawk      jde_sfdc_lease            jde_sfdc_property  pgp                    teamwork
StartEndDate  blackline  condo        ebuilder_jde  jde_sfdc  jde_sfdc_leaseintegration  njams              sfdc_sharepoint_lease
bwce@esb-coupajdeapprovedinvoices-79f5d9fb8f-vhpnz:/efs-mount$ cd jde_sfdc_lease
bwce@esb-coupajdeapprovedinvoices-79f5d9fb8f-vhpnz:/efs-mount/jde_sfdc_lease$ ls
Address_LastExecutionTime.txt
bwce@esb-coupajdeapprovedinvoices-79f5d9fb8f-vhpnz:/efs-mount/jde_sfdc_lease$
```