

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.

EC2 > Auto Scaling groups > eks-70b8ba06-9616-0a11-23f7-f01db75e97a2

Edit eks-70b8ba06-9616-0a11-23f7-f01db75e97a2 [Info](#)

Group size [Info](#)

Specify the size of the Auto Scaling group by changing the desired capacity. You can also specify minimum and maximum capacity limits. Your desired capacity must be within the limit range.

Desired capacity

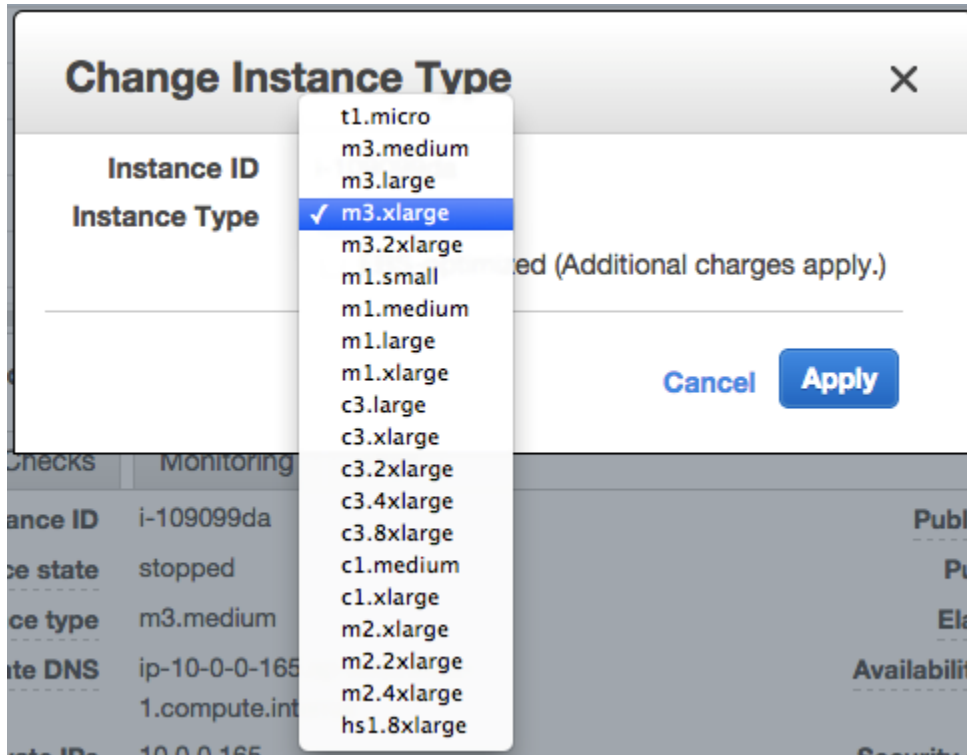
Minimum capacity

Maximum capacity

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

Instances (1/13) Info							Connect	Instance state ▼	Actions ▲	Launch instance
<input type="text" value="Filter instances"/>										
<input type="checkbox"/>	Name	Instance ID	Instance state		Instance type	Status check	Alarm state			
<input type="checkbox"/>	DTIBBAS01	i-039da71348fb87e0f	Running	🔍	t2.micro	🟢 2/2 checks passed	🔴 User: arn:aws:iam::123456789012:user		Connect	
<input type="checkbox"/>	DTIBNES01	i-0f55f4e98678f4196	Running	🔍	t2.large	🟢 2/2 checks passed	🔴 User: arn:aws:iam::123456789012:user		View details	
<input type="checkbox"/>	DTIBEMS01	i-002d022e60eda9b74	Running	🔍	t2.micro	🟢 2/2 checks passed	🔴 User: arn:aws:iam::123456789012:user		Manage instance state	
<input type="checkbox"/>	DTIBJNK01	i-0bee7c55582811891	Running	🔍	t2.large	🟢 2/2 checks passed	🔴 User: arn:aws:iam::123456789012:user		Instance settings	
<input type="checkbox"/>	DTIBNJM01	i-0b2a6435b4aa9ab40	Running	🔍	t2.large	🟢 2/2 checks passed	🔴 User: arn:aws:iam::123456789012:user		Networking	
<input type="checkbox"/>	TTIBEMS01	i-0a8fd849c43cf7de5	Running	🔍	t2.micro	🟢 2/2 checks passed	🔴 User: arn:aws:iam::123456789012:user		Security	
<input type="checkbox"/>	UTIBEMS01	i-06d8a96a4a342b083	Running	🔍	t2.micro	🟢 2/2 checks passed	🔴 User: arn:aws:iam::123456789012:user		Image and templates	
<input type="checkbox"/>	Grafana-Monit...	i-0c8289b279f2b33f8	Stopped	🔍	t2.medium	🟡 1/2 checks passed	🔴 User: arn:aws:iam::123456789012:user		Monitor and troubleshoot	
<input type="checkbox"/>	RESPBUMA05	i-08a83dc6a969dccc6	Stopped	🔍	c5.2xlarge	🟡 1/2 checks passed	🔴 User: arn:aws:iam::123456789012:user			
<input type="checkbox"/>	DTIBEKS03	i-06a0daf251adff071	Running	🔍	t3.2xlarge	🟢 2/2 checks passed	🔴 User: arn:aws:iam::123456789012:user			
<input checked="" type="checkbox"/>	DTIBEKS01	i-0f6cea61d496e92b5	Running	🔍	t3.2xlarge	🟢 2/2 checks passed	🔴 User: arn:aws:iam::123456789012:user			

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



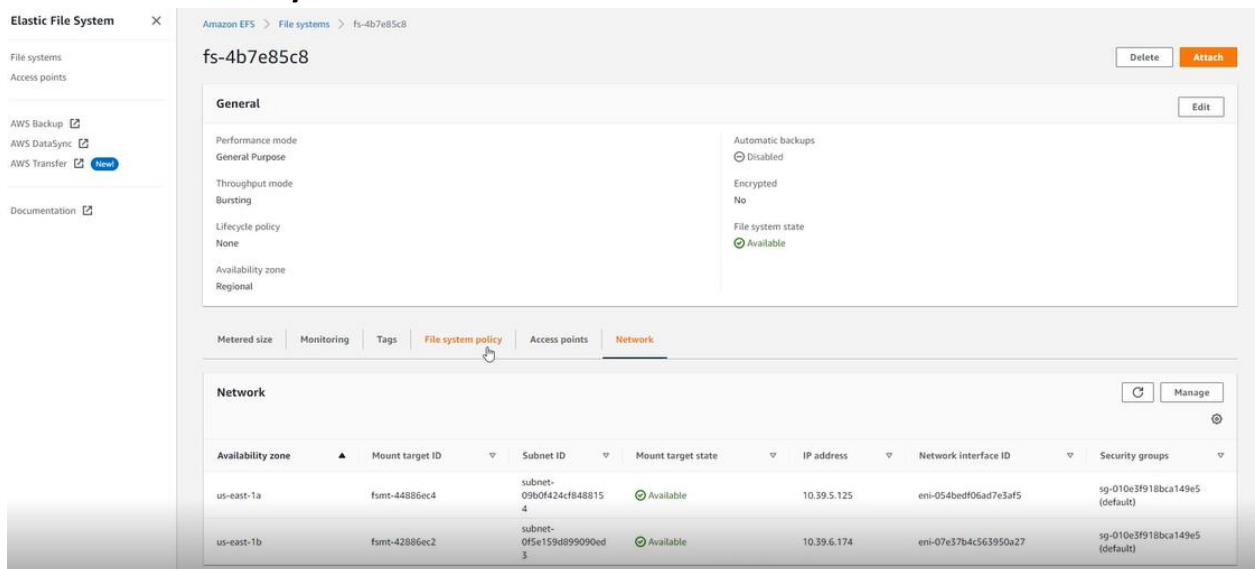
Earlier we have t2.large = 4 CPU, RAM = 16 GB

Upgraded cluster size,

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

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

Amazon EFS > File Systems

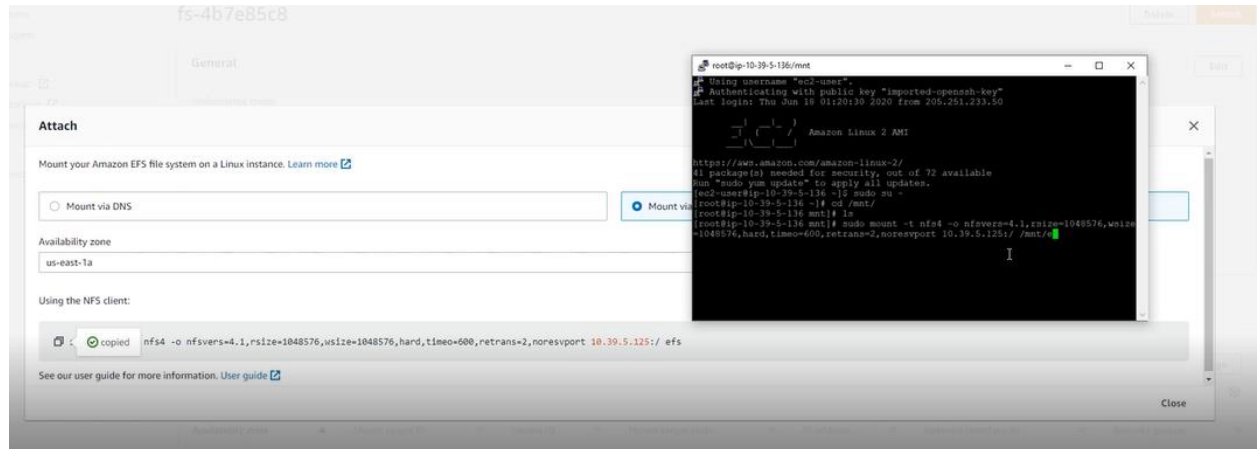


- Attach Mount points to New Instances.

```
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-blacklinetodejournals         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-jdetosalesforcecmls            1/1      1              1            315d
esb-jdetosalesforceproperty        1/1      1              1            220d

```

- 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  reducedStartupTime  resources  run  scripts  sys  usr
bin                                                                dev   etc       lib   media  opt  root  sbin  srv  tmp  var
bwce@esb-coupajdeapprovedinvoices-79f5d9fb8f-vhpnz:/$ cd efs-mount/
bwce@esb-coupajdeapprovedinvoices-79f5d9fb8f-vhpnz:/efs-mount$ ls
DE          auth      blacklinegl  coupa    hawk     jde_sfddc_lease  jde_sfddc_property  pgp      teamwork
StartEndDate  blackline  condo      ebuilder_jde  jde_sfddc  jde_sfddc_leaseintegration  njams              sfddc_sharepoint_lease
bwce@esb-coupajdeapprovedinvoices-79f5d9fb8f-vhpnz:/efs-mount$ cd jde_sfddc_lease
bwce@esb-coupajdeapprovedinvoices-79f5d9fb8f-vhpnz:/efs-mount/jde_sfddc_lease$ ls
Address_LastExecutionTime.txt
bwce@esb-coupajdeapprovedinvoices-79f5d9fb8f-vhpnz:/efs-mount/jde_sfddc_lease$

```