19th june

STAAS:

- Block storage as a service (EBS,cinder)
- Manage storage as a service (S3,swift)
- Files / filesystem as a service (EFS,MANILA)

EFS is used in the scale up environment

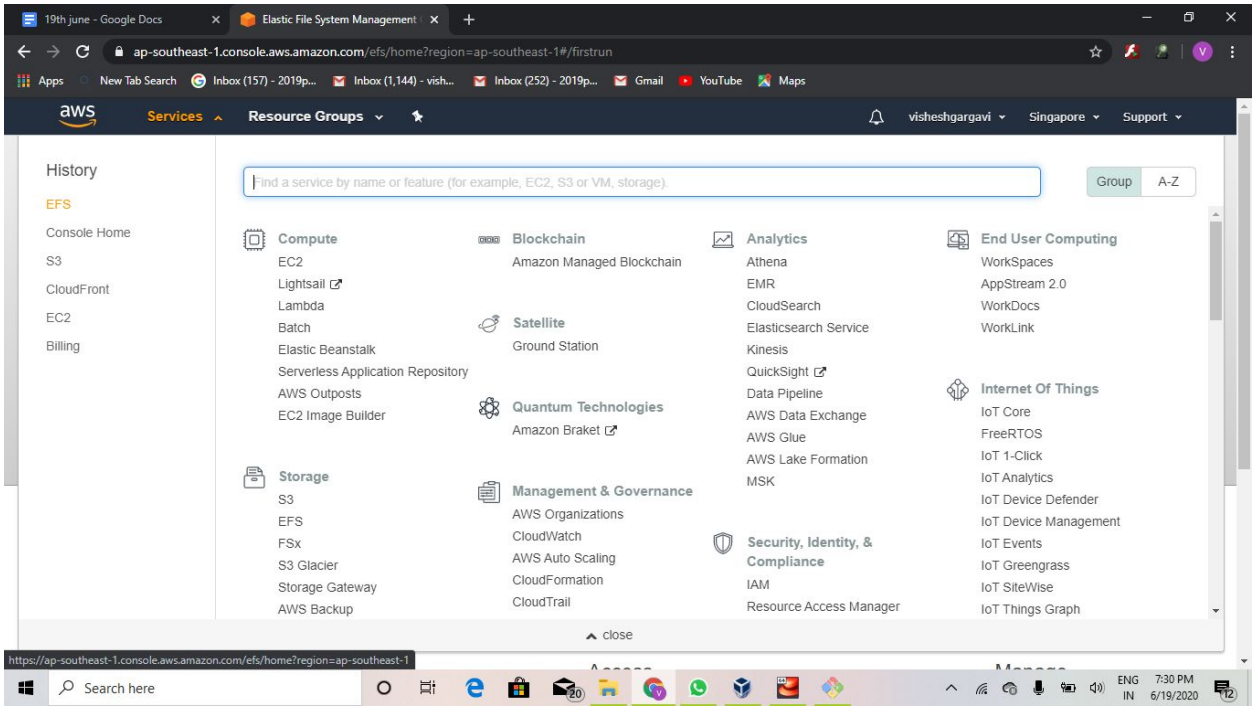
NFS is knows as file server or file storage

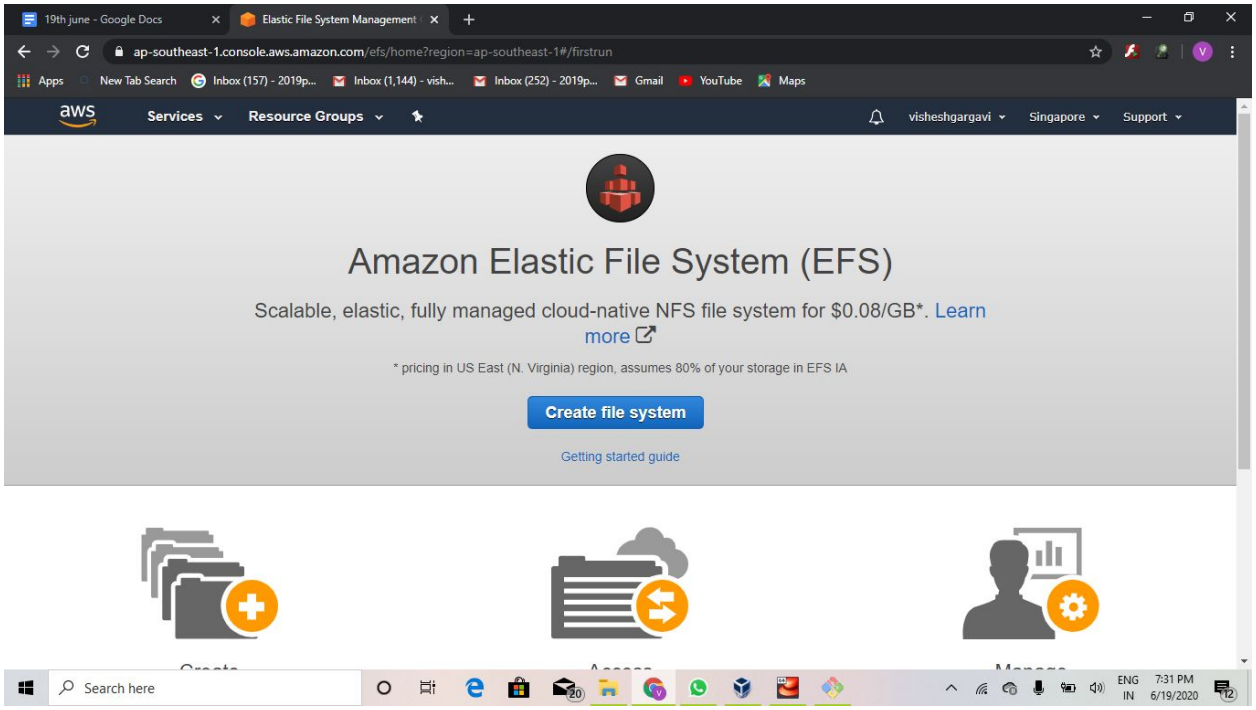
(Network file system)

Compute unit(RAM ,CPU)

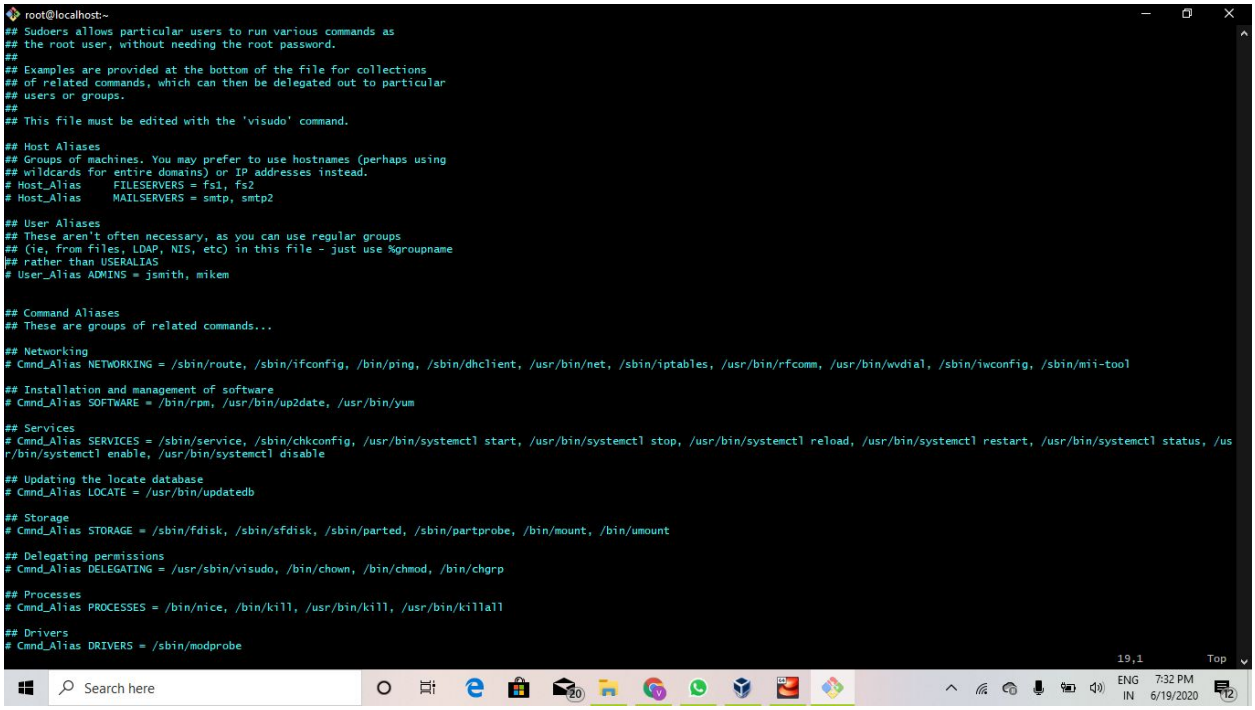
Storage unit(hardisk)

NAS(network attack storage)

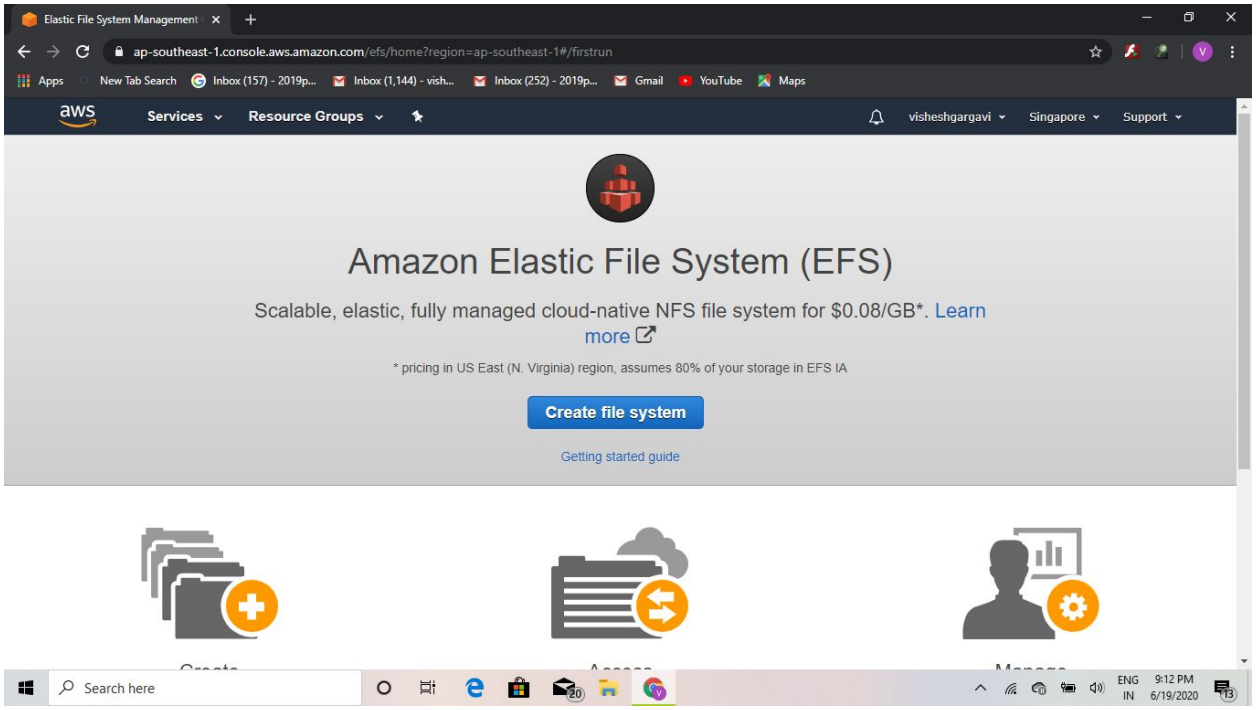


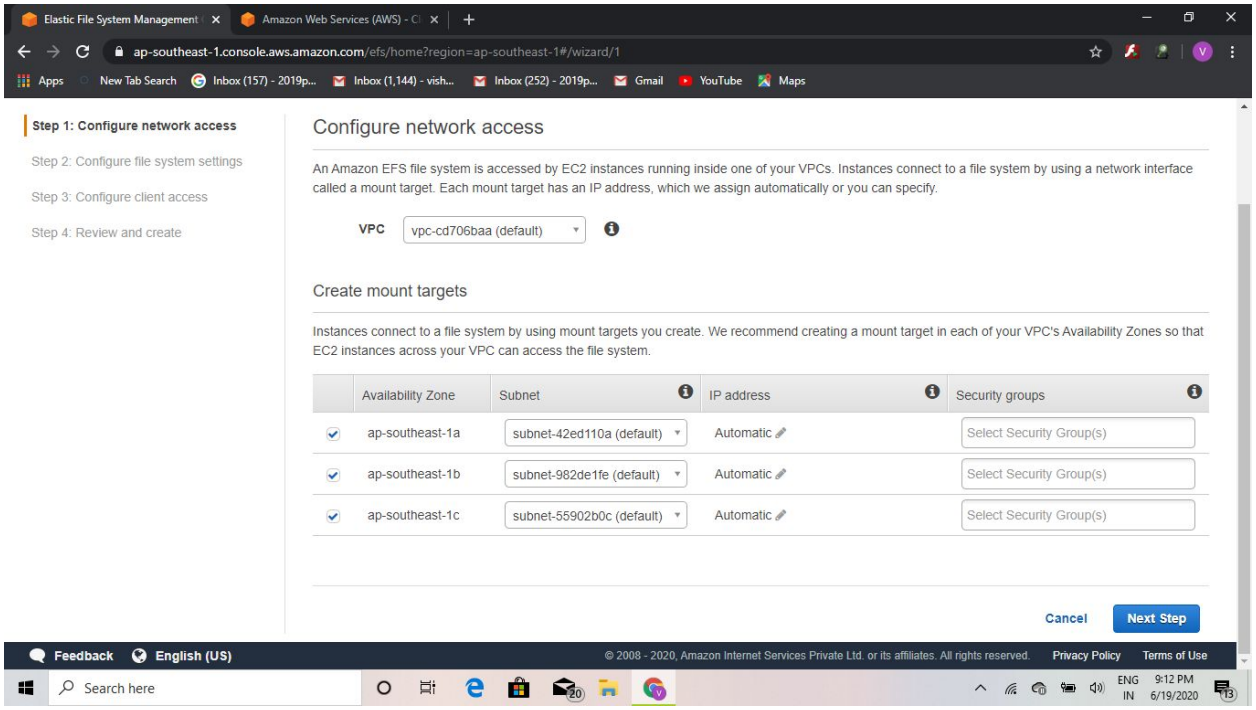


[root@localhost ~]# vim /etc/sudoers



[root@localhost ~]# vi /etc/exports


Elastic File System Management
ap-southeast-1.console.aws.amazon.com/efs/home?region=ap-southeast-1#/firstrun
Apps
New Tab Search
Inbox (157) - 2019p...
Inbox (1,144) - vish...
Inbox (252) - 2019p...
Gmail
YouTube
Maps
aws
Services
Resource Groups
visheshgargavi
Singapore
Support
Amazon Elastic File System (EFS)
Scalable, elastic, fully managed cloud-native NFS file system for $0.08/GB*. Learn more
* pricing in US East (N. Virginia) region, assumes 80% of your storage in EFS IA
Create file system
Getting started guide
Search here
ENG
IN
9:12 PM
6/19/2020


Elastic File System Management
Amazon Web Services (AWS) - Cl
ap-southeast-1.console.aws.amazon.com/efs/home?region=ap-southeast-1#/wizard/1
Apps
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Inbox (252) - 2019p...
Gmail
YouTube
Maps
Step 1: Configure network access
Step 2: Configure file system settings
Step 3: Configure client access
Step 4: Review and create
Configure network access
An Amazon EFS file system is accessed by EC2 instances running inside one of your VPCs. Instances connect to a file system by using a network interface called a mount target. Each mount target has an IP address, which we assign automatically or you can specify.
VPC
vpc-cd706baa (default)
Create mount targets
Instances connect to a file system by using mount targets you create. We recommend creating a mount target in each of your VPC's Availability Zones so that EC2 instances across your VPC can access the file system.
Availability Zone
Subnet
IP address
Security groups
ap-southeast-1a
subnet-42ed110a (default)
Automatic
Select Security Group(s)
ap-southeast-1b
subnet-982de1fe (default)
Automatic
Select Security Group(s)
ap-southeast-1c
subnet-55902b0c (default)
Automatic
Select Security Group(s)
Cancel
Next Step
Feedback
English (US)
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ENG
IN
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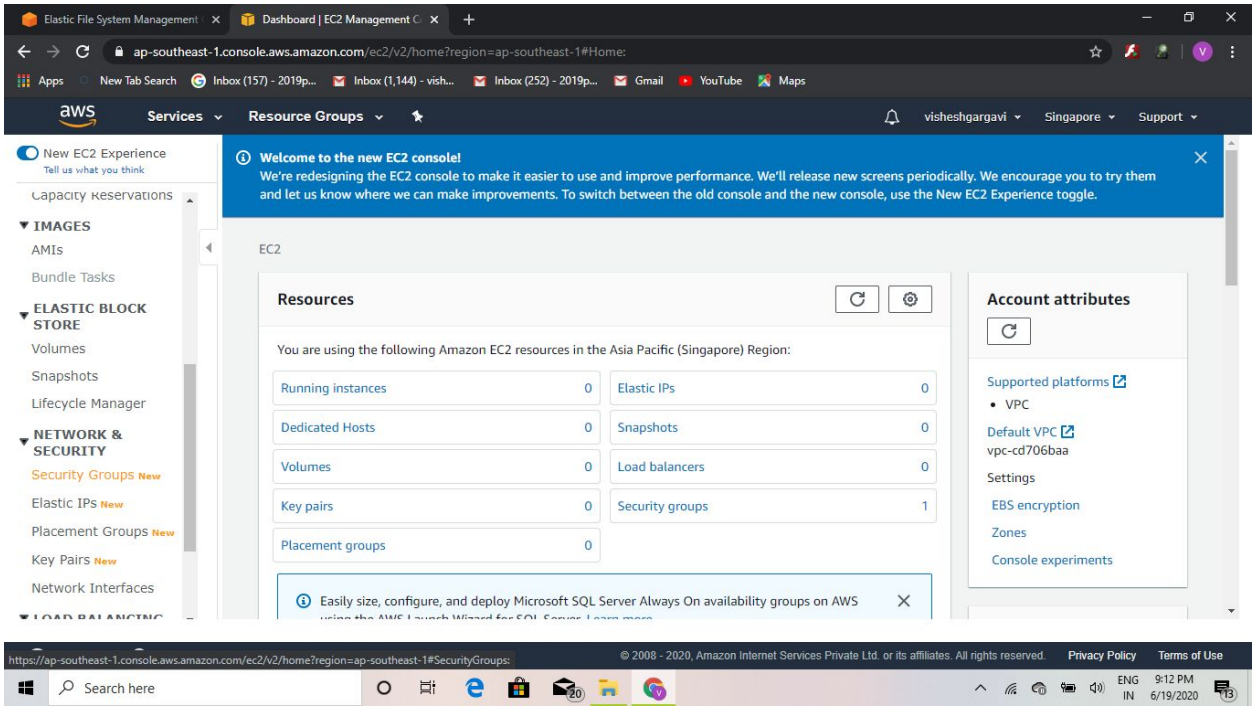
Elastic File System Management
Dashboard | EC2 Management C
ap-southeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-southeast-1#Home:
Apps
New Tab Search
Inbox (157) - 2019p...
Inbox (1,144) - vish...
Inbox (252) - 2019p...
Gmail
YouTube
Maps
aws
Services
Resource Groups
visheshgargavi
Singapore
Support
New EC2 Experience
Tell us what you think
Capacity Reservations
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
Lifecycle Manager
NETWORK & SECURITY
Security Groups New
Elastic IPs New
Placement Groups New
Key Pairs New
Network Interfaces
Welcome to the new EC2 console!
We're redesigning the EC2 console to make it easier to use and improve performance. We'll release new screens periodically. We encourage you to try them and let us know where we can make improvements. To switch between the old console and the new console, use the New EC2 Experience toggle.
EC2
Resources
You are using the following Amazon EC2 resources in the Asia Pacific (Singapore) Region:
Running instances 0
Elastic IPs 0
Dedicated Hosts 0
Snapshots 0
Volumes 0
Load balancers 0
Key pairs 0
Security groups 1
Placement groups 0
Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS
Account attributes
Supported platforms
VPC
Default VPC
vpc-cd706baa
Settings
EBS encryption
Zones
Console experiments
https://ap-southeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-southeast-1#SecurityGroups:
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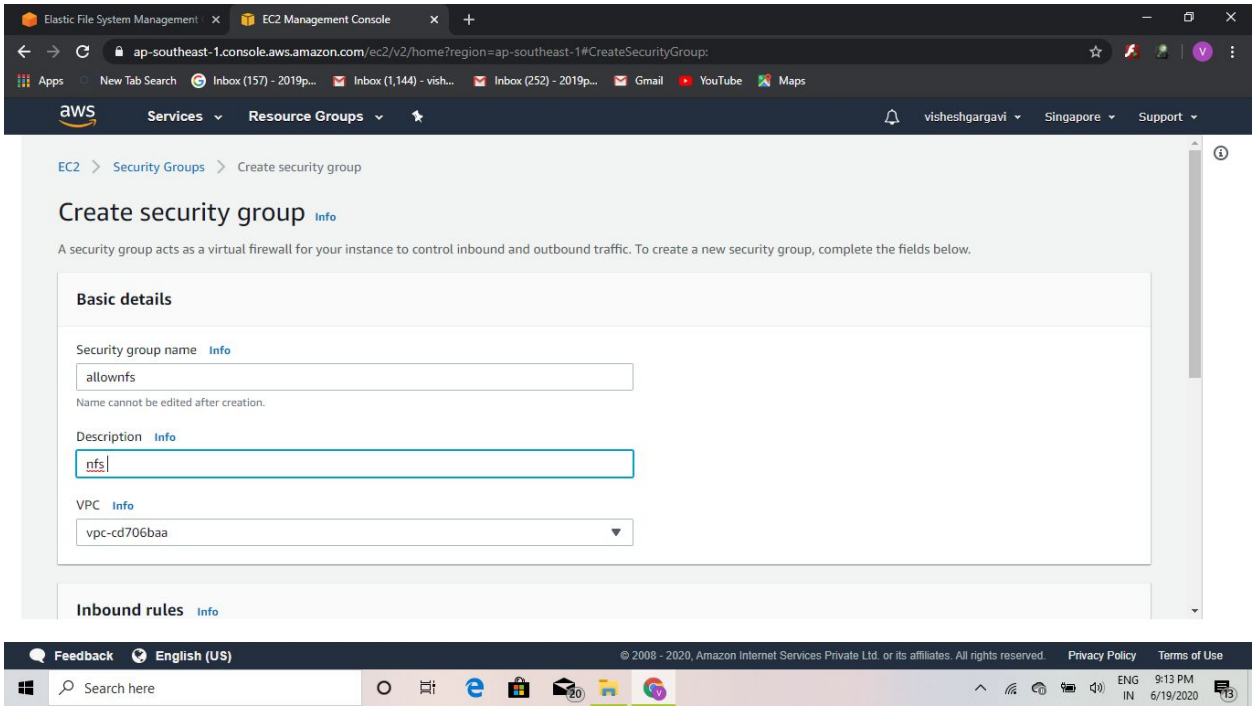
Elastic File System Management
EC2 Management Console
ap-southeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-southeast-1#CreateSecurityGroup:
Apps
New Tab Search
Inbox (157) - 2019p...
Inbox (1,144) - vish...
Inbox (252) - 2019p...
Gmail
YouTube
Maps
aws
Services
Resource Groups
visheshgargavi
Singapore
Support
EC2 > Security Groups > Create security group
Create security group Info
A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.
Basic details
Security group name Info
allownfs
Name cannot be edited after creation.
Description Info
nfs
VPC Info
vpc-cd706baa
Inbound rules Info
Feedback
English (US)
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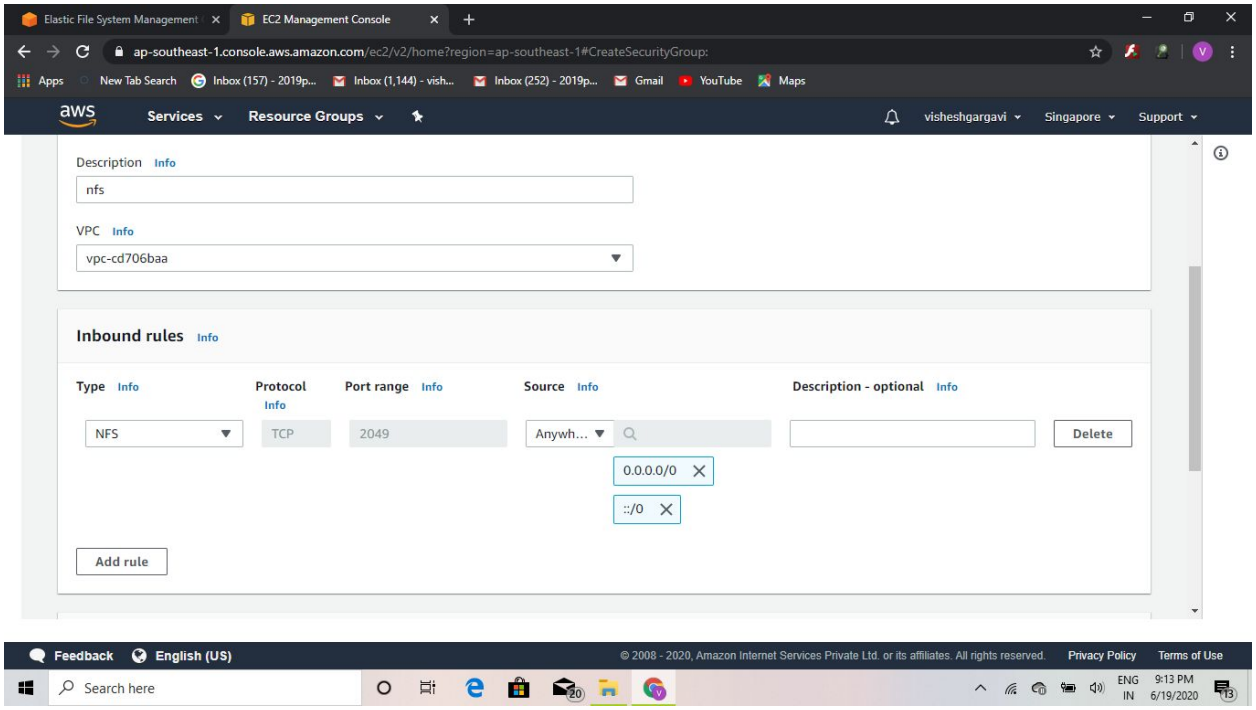
Elastic File System Management
EC2 Management Console
ap-southeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-southeast-1#CreateSecurityGroup:
Apps
New Tab Search
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Inbox (1,144) - vish...
Inbox (252) - 2019p...
Gmail
YouTube
Maps
aws
Services
Resource Groups
visheshgargavi
Singapore
Support
Description Info
nfs
VPC Info
vpc-cd706baa
Inbound rules Info
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
NFS
TCP
2049
Anywh...
Delete
0.0.0.0/0
::/0
Add rule
Feedback
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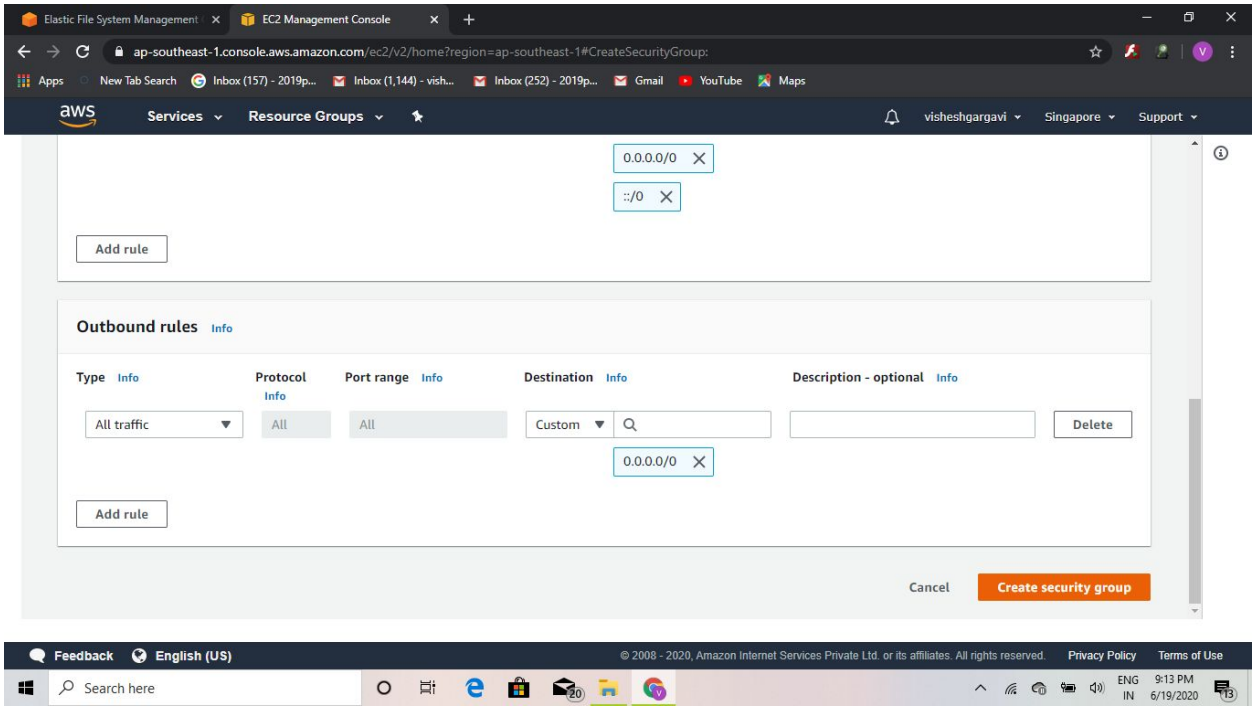
Elastic File System Management
EC2 Management Console
ap-southeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-southeast-1#CreateSecurityGroup:
Apps
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Inbox (252) - 2019p...
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YouTube
Maps
aws
Services
Resource Groups
visheshgargavi
Singapore
Support
0.0.0.0/0
::/0
Add rule
Outbound rules Info
Type Info
Protocol Info
Port range Info
Destination Info
Description - optional Info
All traffic
All
All
Custom
Delete
0.0.0.0/0
Add rule
Cancel
Create security group
Feedback
English (US)
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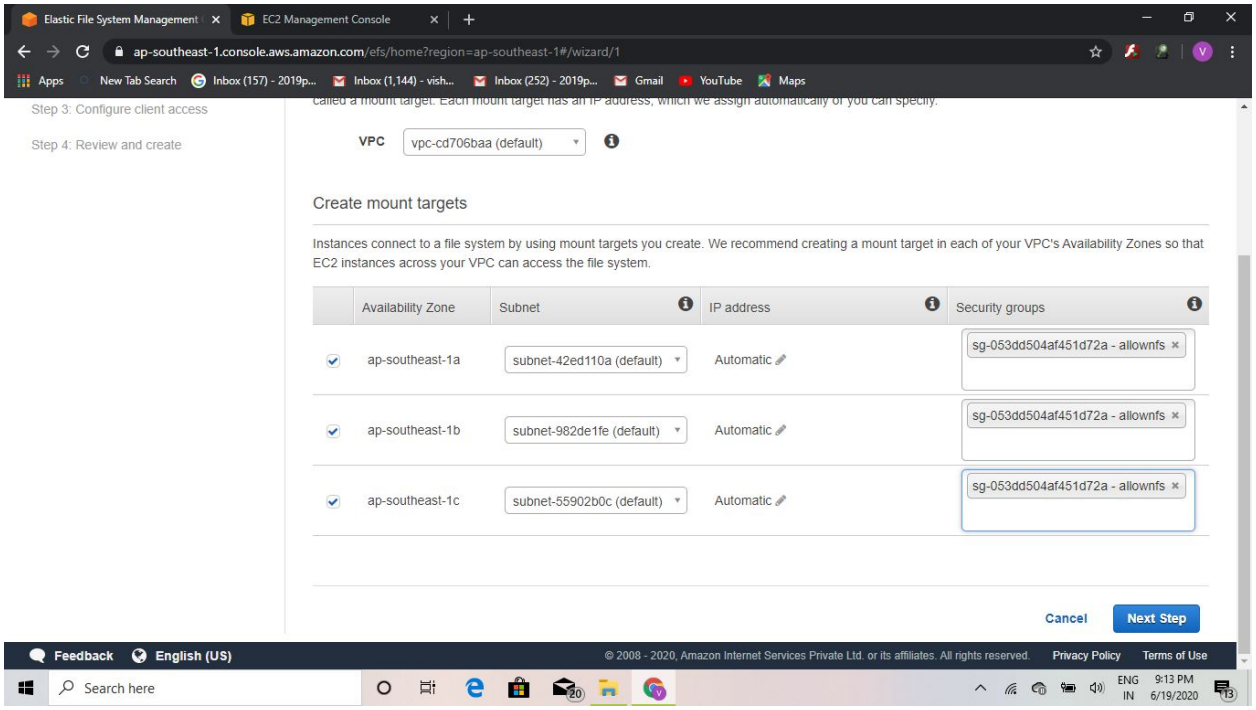
Elastic File System Management
EC2 Management Console
ap-southeast-1.console.aws.amazon.com/efs/home?region=ap-southeast-1#/wizard/1
Apps
New Tab Search
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Inbox (252) - 2019p...
Gmail
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Maps
Step 3: Configure client access
Step 4: Review and create
called a mount target. Each mount target has an IP address, which we assign automatically or you can specify.
VPC
vpc-cd706baa (default)
Create mount targets
Instances connect to a file system by using mount targets you create. We recommend creating a mount target in each of your VPC's Availability Zones so that EC2 instances across your VPC can access the file system.
Availability Zone
Subnet
IP address
Security groups
ap-southeast-1a
subnet-42ed110a (default)
Automatic
sg-053dd504af451d72a - allownfs
ap-southeast-1b
subnet-982de1fe (default)
Automatic
sg-053dd504af451d72a - allownfs
ap-southeast-1c
subnet-55902b0c (default)
Automatic
sg-053dd504af451d72a - allownfs
Cancel
Next Step
Feedback
English (US)
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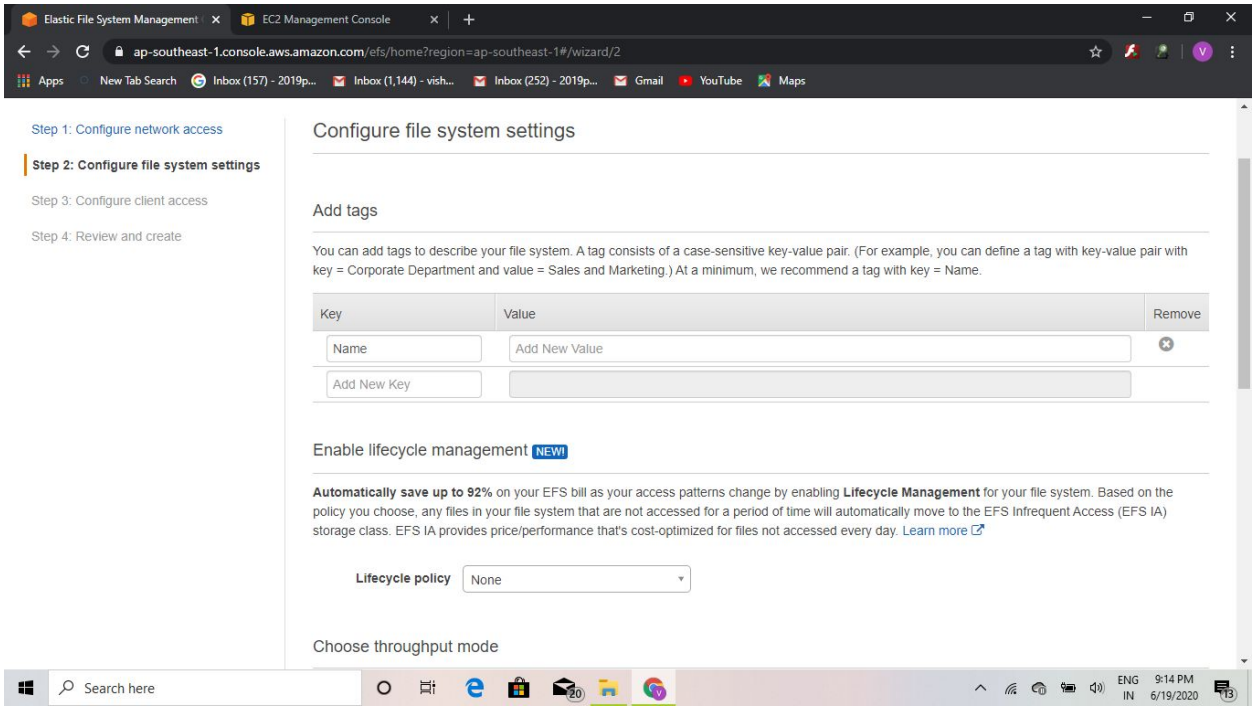
Elastic File System Management
EC2 Management Console
ap-southeast-1.console.aws.amazon.com/efs/home?region=ap-southeast-1#/wizard/2
Apps
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Gmail
YouTube
Maps
Step 1: Configure network access
Step 2: Configure file system settings
Step 3: Configure client access
Step 4: Review and create
Configure file system settings
Add tags
You can add tags to describe your file system. A tag consists of a case-sensitive key-value pair. (For example, you can define a tag with key-value pair with key = Corporate Department and value = Sales and Marketing.) At a minimum, we recommend a tag with key = Name.
Key
Value
Remove
Name
Add New Value
Add New Key
Enable lifecycle management
NEW!
Automatically save up to 92% on your EFS bill as your access patterns change by enabling Lifecycle Management for your file system. Based on the policy you choose, any files in your file system that are not accessed for a period of time will automatically move to the EFS Infrequent Access (EFS IA) storage class. EFS IA provides price/performance that's cost-optimized for files not accessed every day. Learn more
Lifecycle policy
None
Choose throughput mode
Search here
ENG
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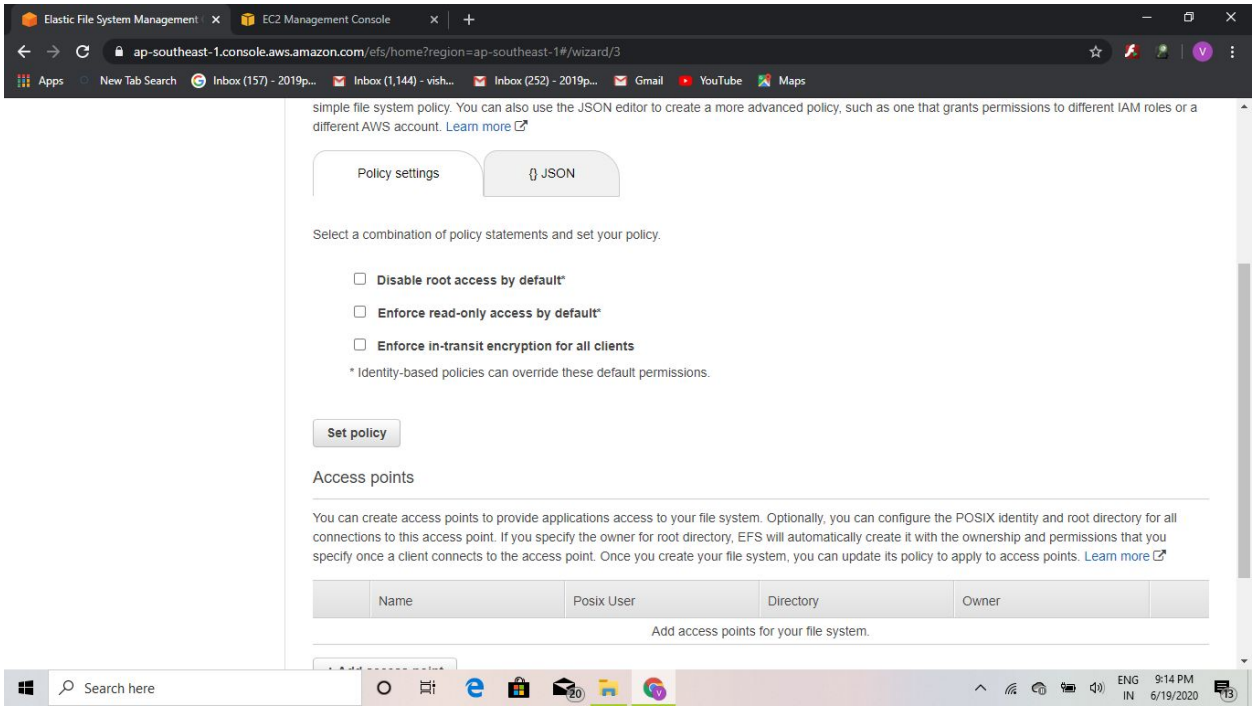
Elastic File System Management
EC2 Management Console
ap-southeast-1.console.aws.amazon.com/efs/home?region=ap-southeast-1#/wizard/3
Apps
New Tab Search
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Gmail
YouTube
Maps
simple file system policy. You can also use the JSON editor to create a more advanced policy, such as one that grants permissions to different IAM roles or a different AWS account. Learn more
Policy settings
{} JSON
Select a combination of policy statements and set your policy.
Disable root access by default*
Enforce read-only access by default*
Enforce in-transit encryption for all clients
* Identity-based policies can override these default permissions.
Set policy
Access points
You can create access points to provide applications access to your file system. Optionally, you can configure the POSIX identity and root directory for all connections to this access point. If you specify the owner for root directory, EFS will automatically create it with the ownership and permissions that you specify once a client connects to the access point. Once you create your file system, you can update its policy to apply to access points. Learn more
Name
Posix User
Directory
Owner
Add access points for your file system.
Search here
ENG
IN
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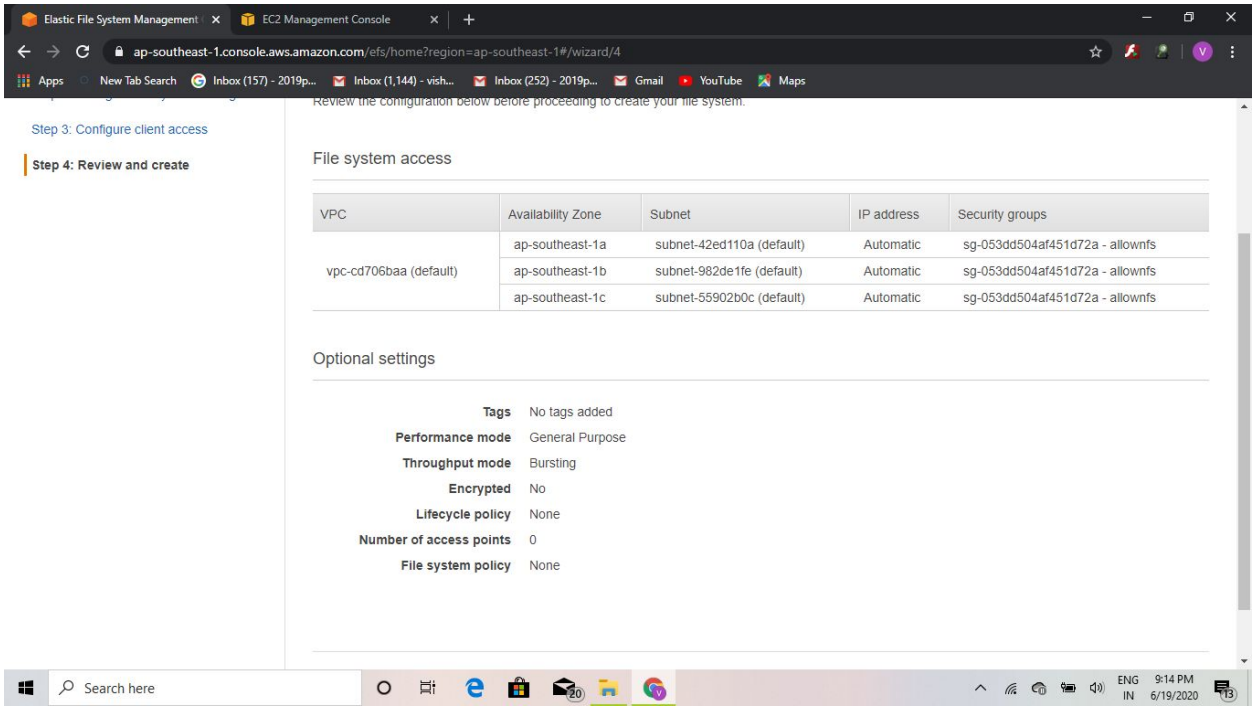
Elastic File System Management
EC2 Management Console
ap-southeast-1.console.aws.amazon.com/efs/home?region=ap-southeast-1#/wizard/4
Apps
New Tab Search
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Inbox (252) - 2019p...
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YouTube
Maps
Review the configuration below before proceeding to create your file system.
Step 3: Configure client access
Step 4: Review and create
File system access
VPC
Availability Zone
Subnet
IP address
Security groups
vpc-cd706baa (default)
ap-southeast-1a
subnet-42ed110a (default)
Automatic
sg-053dd504af451d72a - allownfs
ap-southeast-1b
subnet-982de1fe (default)
Automatic
sg-053dd504af451d72a - allownfs
ap-southeast-1c
subnet-55902b0c (default)
Automatic
sg-053dd504af451d72a - allownfs
Optional settings
Tags
No tags added
Performance mode
General Purpose
Throughput mode
Bursting
Encrypted
No
Lifecycle policy
None
Number of access points
0
File system policy
None
Search here
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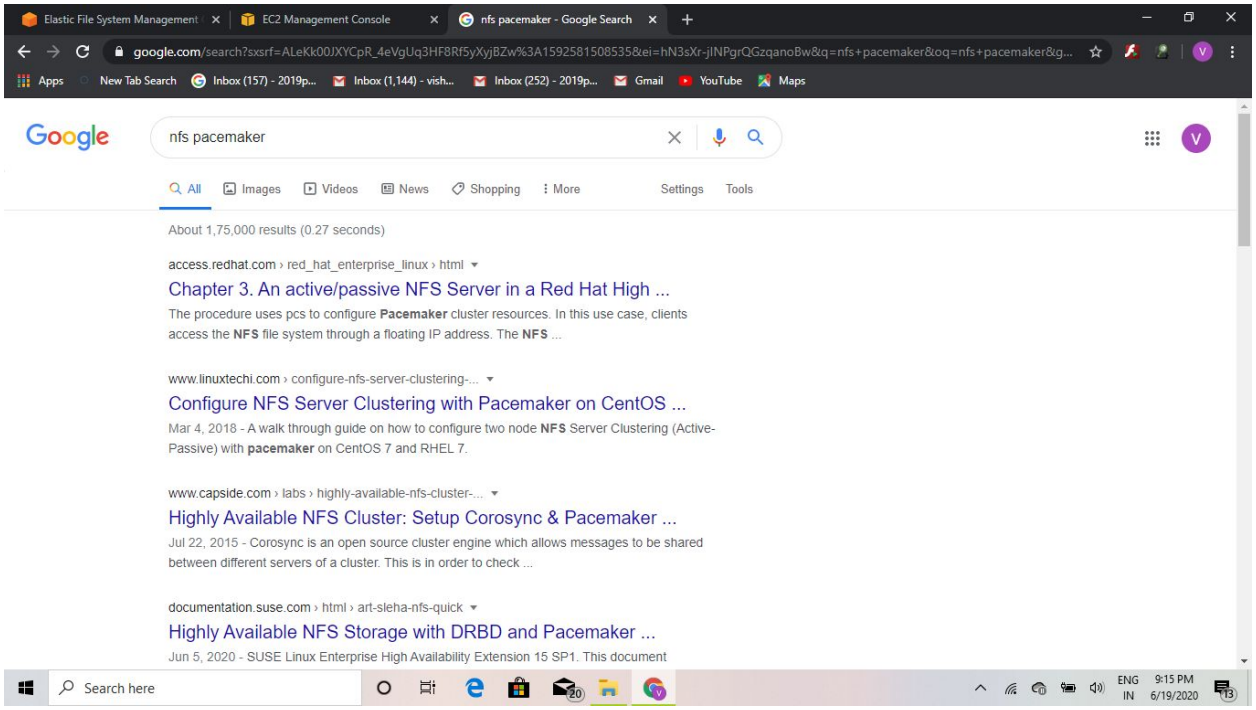
Elastic File System Management
EC2 Management Console
nfs pacemaker - Google Search
google.com/search?sxsrf=ALeKk00JXYCpR_4eVgUq3HF8Rf5yXyjBZw%3A1592581508535&ei=hN3sXr-jINPgrQGzqanoBw&q=nfs+pacemaker&oq=nfs+pacemaker&g...
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Gmail
YouTube
Maps
Google
nfs pacemaker
All
Images
Videos
News
Shopping
More
Settings
Tools
About 1,75,000 results (0.27 seconds)
access.redhat.com › red_hat_enterprise_linux › html
Chapter 3. An active/passive NFS Server in a Red Hat High ...
The procedure uses pcs to configure Pacemaker cluster resources. In this use case, clients access the NFS file system through a floating IP address. The NFS ...
www.linuxtechi.com › configure-nfs-server-clustering-...
Configure NFS Server Clustering with Pacemaker on CentOS ...
Mar 4, 2018 - A walk through guide on how to configure two node NFS Server Clustering (Active-Passive) with pacemaker on CentOS 7 and RHEL 7.
www.capside.com › labs › highly-available-nfs-cluster-...
Highly Available NFS Cluster: Setup Corosync & Pacemaker ...
Jul 22, 2015 - Corosync is an open source cluster engine which allows messages to be shared between different servers of a cluster. This is in order to check ...
documentation.suse.com › html › art-sleha-nfs-quick
Highly Available NFS Storage with DRBD and Pacemaker ...
Jun 5, 2020 - SUSE Linux Enterprise High Availability Extension 15 SP1. This document
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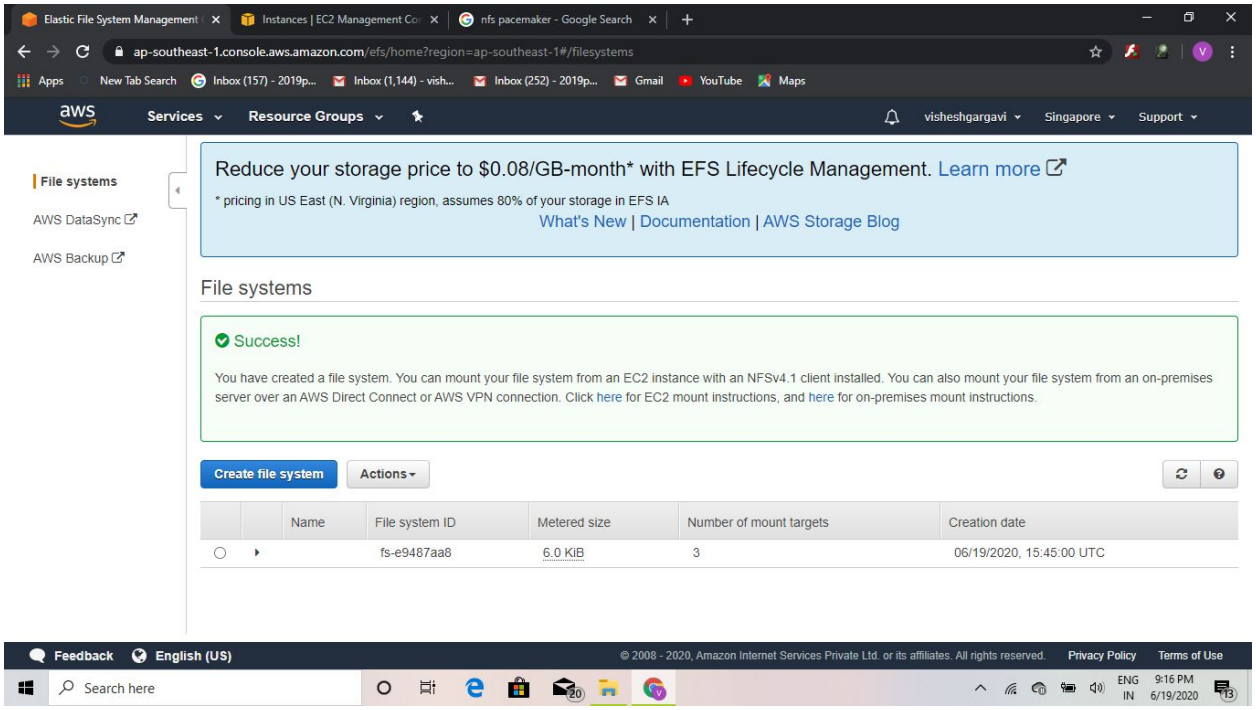
Elastic File System Management
Instances | EC2 Management Co
nfs pacemaker - Google Search
ap-southeast-1.console.aws.amazon.com/efs/home?region=ap-southeast-1#/filesystems
Apps
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Services
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Singapore
Support
File systems
AWS DataSync
AWS Backup
Reduce your storage price to $0.08/GB-month* with EFS Lifecycle Management. Learn more
* pricing in US East (N. Virginia) region, assumes 80% of your storage in EFS IA
What's New | Documentation | AWS Storage Blog
File systems
Success!
You have created a file system. You can mount your file system from an EC2 instance with an NFSv4.1 client installed. You can also mount your file system from an on-premises server over an AWS Direct Connect or AWS VPN connection. Click here for EC2 mount instructions, and here for on-premises mount instructions.
Create file system
Actions
Name
File system ID
Metered size
Number of mount targets
Creation date
fs-e9487aa8
6.0 KiB
3
06/19/2020, 15:45:00 UTC
Feedback
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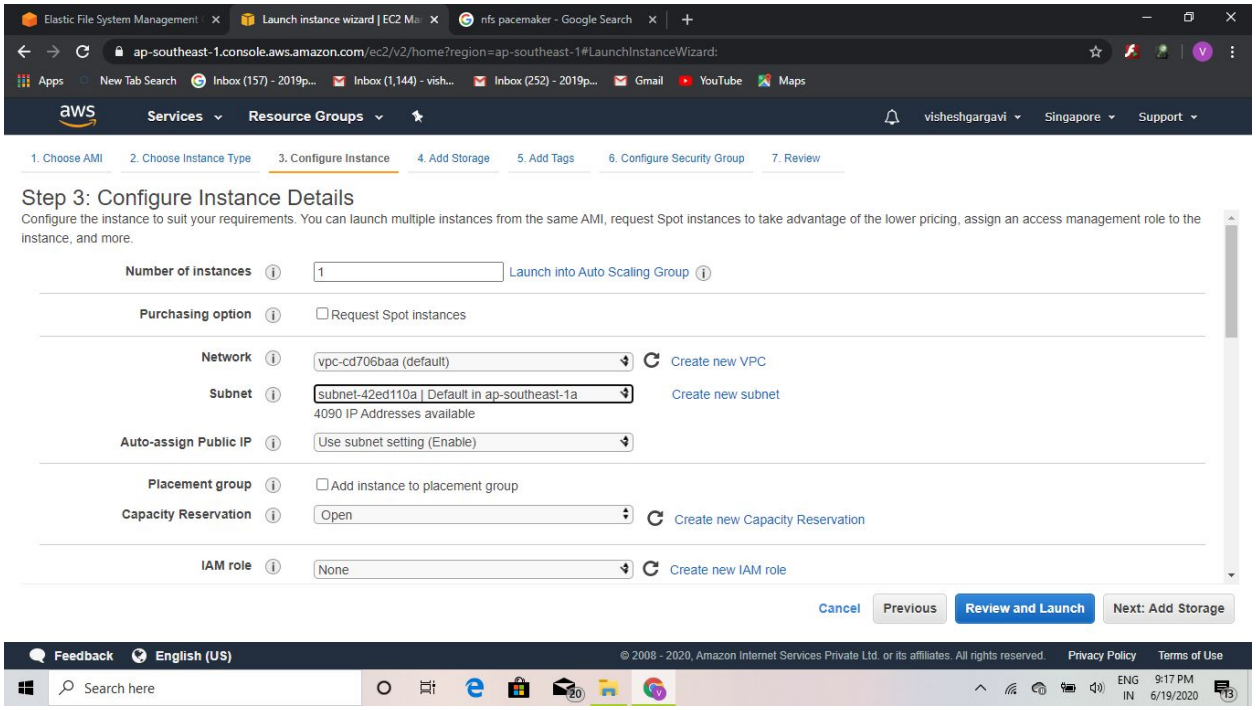
Elastic File System Management
Launch instance wizard | EC2 Ma
nfs pacemaker - Google Search
ap-southeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-southeast-1#LaunchInstanceWizard:
Apps
New Tab Search
Inbox (157) - 2019p...
Inbox (1,144) - vish...
Inbox (252) - 2019p...
Gmail
YouTube
Maps
aws
Services
Resource Groups
visheshgargavi
Singapore
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 3: Configure Instance Details
Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.
Number of instances
1
Launch into Auto Scaling Group
Purchasing option
Request Spot instances
Network
vpc-cd706baa (default)
Create new VPC
Subnet
subnet-42ed110a | Default in ap-southeast-1a
Create new subnet
4090 IP Addresses available
Auto-assign Public IP
Use subnet setting (Enable)
Placement group
Add instance to placement group
Capacity Reservation
Open
Create new Capacity Reservation
IAM role
None
Create new IAM role
Cancel
Previous
Review and Launch
Next: Add Storage
Feedback
English (US)
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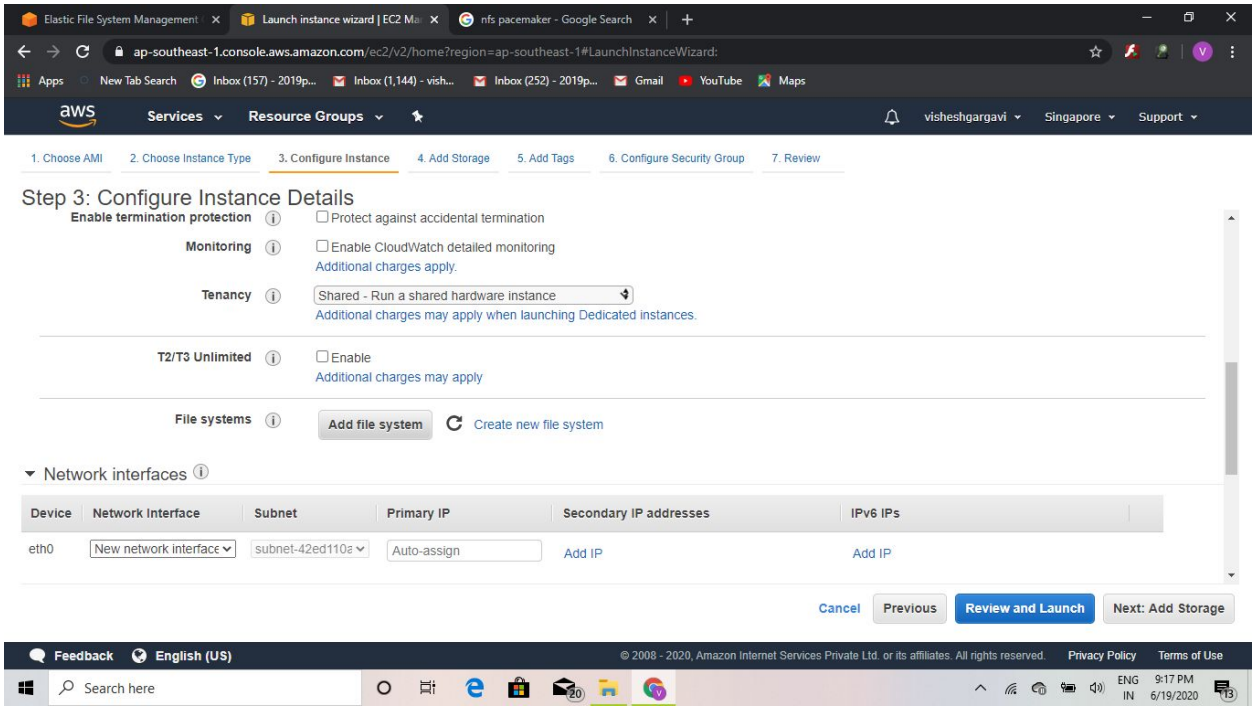
Elastic File System Management
Launch instance wizard | EC2 Ma
nfs pacemaker - Google Search
ap-southeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-southeast-1#LaunchInstanceWizard:
Apps
New Tab Search
Inbox (157) - 2019p...
Inbox (1,144) - vish...
Inbox (252) - 2019p...
Gmail
YouTube
Maps
aws
Services
Resource Groups
visheshgargavi
Singapore
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 3: Configure Instance Details
Enable termination protection
Protect against accidental termination
Monitoring
Enable CloudWatch detailed monitoring
Additional charges apply.
Tenancy
Shared - Run a shared hardware instance
Additional charges may apply when launching Dedicated instances.
T2/T3 Unlimited
Enable
Additional charges may apply
File systems
Add file system
Create new file system
Network interfaces
Device
Network Interface
Subnet
Primary IP
Secondary IP addresses
IPv6 IPs
eth0
New network interface
subnet-42ed110a
Auto-assign
Add IP
Add IP
Cancel
Previous
Review and Launch
Next: Add Storage
Feedback
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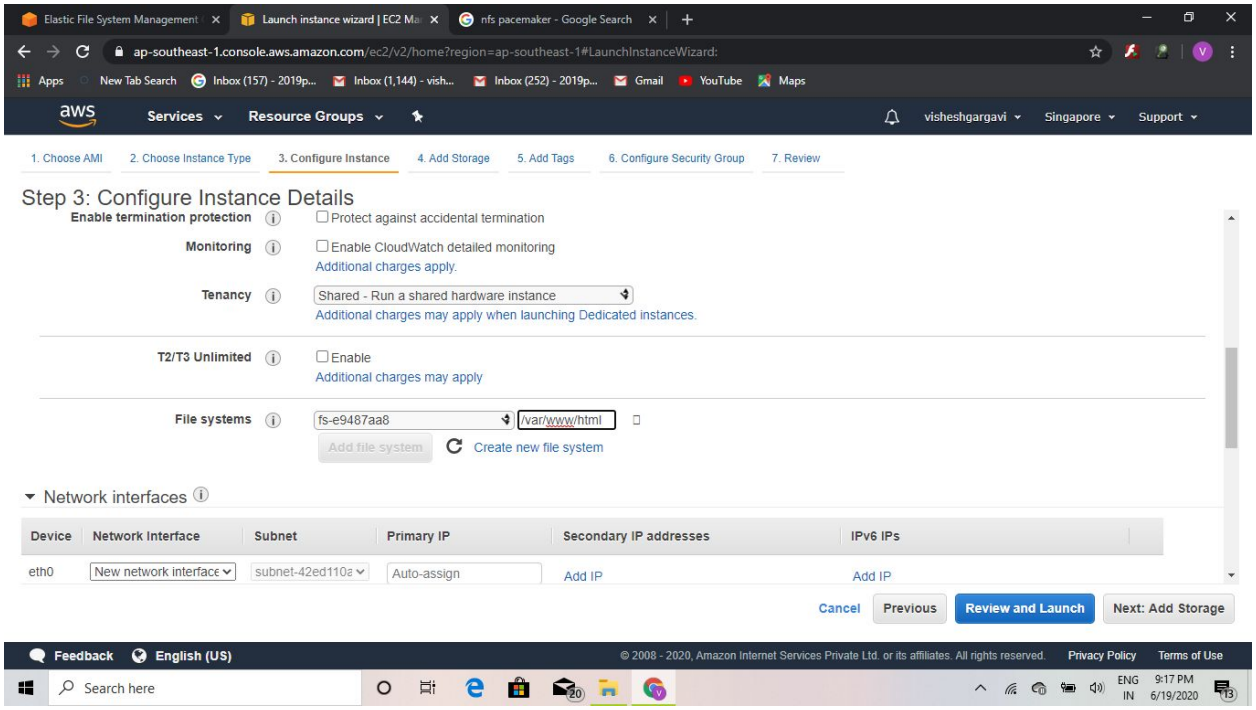
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Launch instance wizard | EC2 Ma
nfs pacemaker - Google Search
ap-southeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-southeast-1#LaunchInstanceWizard:
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New Tab Search
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Inbox (1,144) - vish...
Inbox (252) - 2019p...
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YouTube
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aws
Services
Resource Groups
visheshgargavi
Singapore
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 3: Configure Instance Details
Enable termination protection
Protect against accidental termination
Monitoring
Enable CloudWatch detailed monitoring
Additional charges apply.
Tenancy
Shared - Run a shared hardware instance
Additional charges may apply when launching Dedicated instances.
T2/T3 Unlimited
Enable
Additional charges may apply
File systems
fs-e9487aa8
/var/www/html
Add file system
Create new file system
Network interfaces
Device
Network Interface
Subnet
Primary IP
Secondary IP addresses
IPv6 IPs
eth0
New network interface
subnet-42ed110a
Auto-assign
Add IP
Add IP
Cancel
Previous
Review and Launch
Next: Add Storage
Feedback
English (US)
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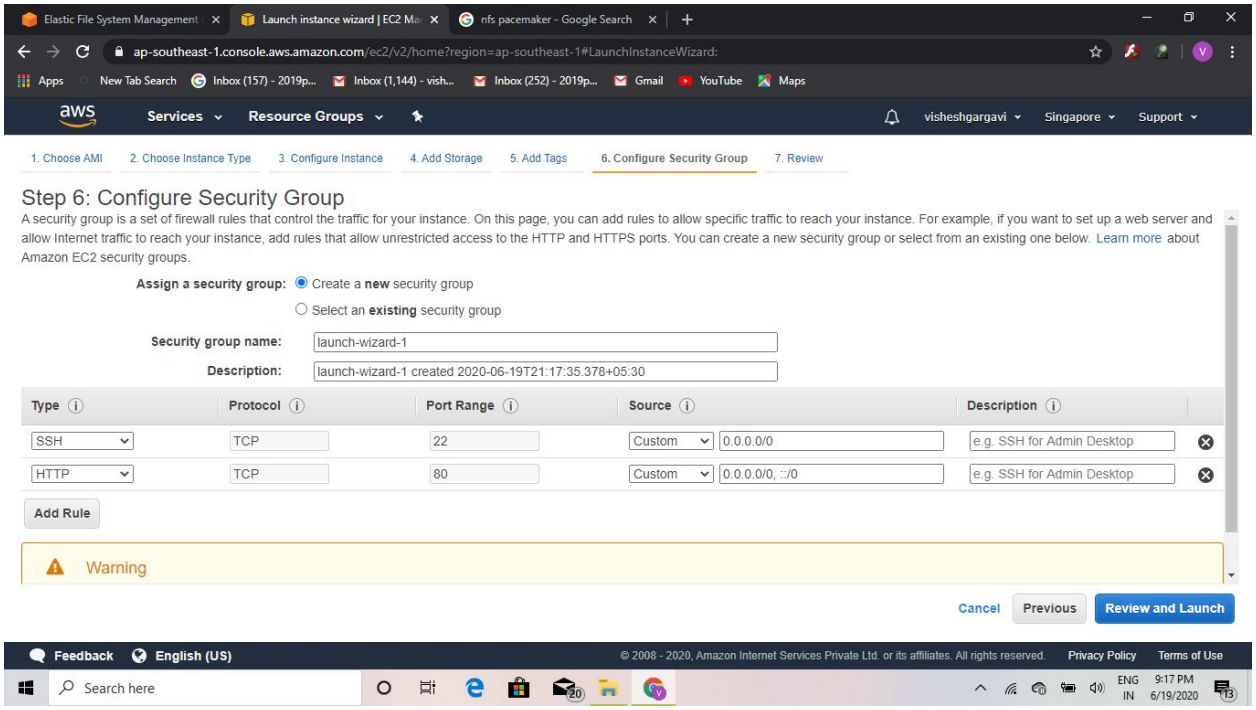
9:17 PM
6/19/2020


Elastic File System Management
Launch instance wizard | EC2 Ma
nfs pacemaker - Google Search
ap-southeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-southeast-1#LaunchInstanceWizard:
Apps
New Tab Search
Inbox (157) - 2019p...
Inbox (1,144) - vish...
Inbox (252) - 2019p...
Gmail
YouTube
Maps
aws
Services
Resource Groups
visheshgargavi
Singapore
Support
1. Choose AMI
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5. Add Tags
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7. Review
Step 6: Configure Security Group
A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. Learn more about Amazon EC2 security groups.
Assign a security group:
Create a new security group
Select an existing security group
Security group name:
launch-wizard-1
Description:
launch-wizard-1 created 2020-06-19T21:17:35.378+05:30
Type
Protocol
Port Range
Source
Description
SSH
TCP
22
Custom
0.0.0.0/0
e.g. SSH for Admin Desktop
HTTP
TCP
80
Custom
0.0.0.0/0, ::/0
e.g. SSH for Admin Desktop
Add Rule
Warning
Cancel
Previous
Review and Launch
Feedback
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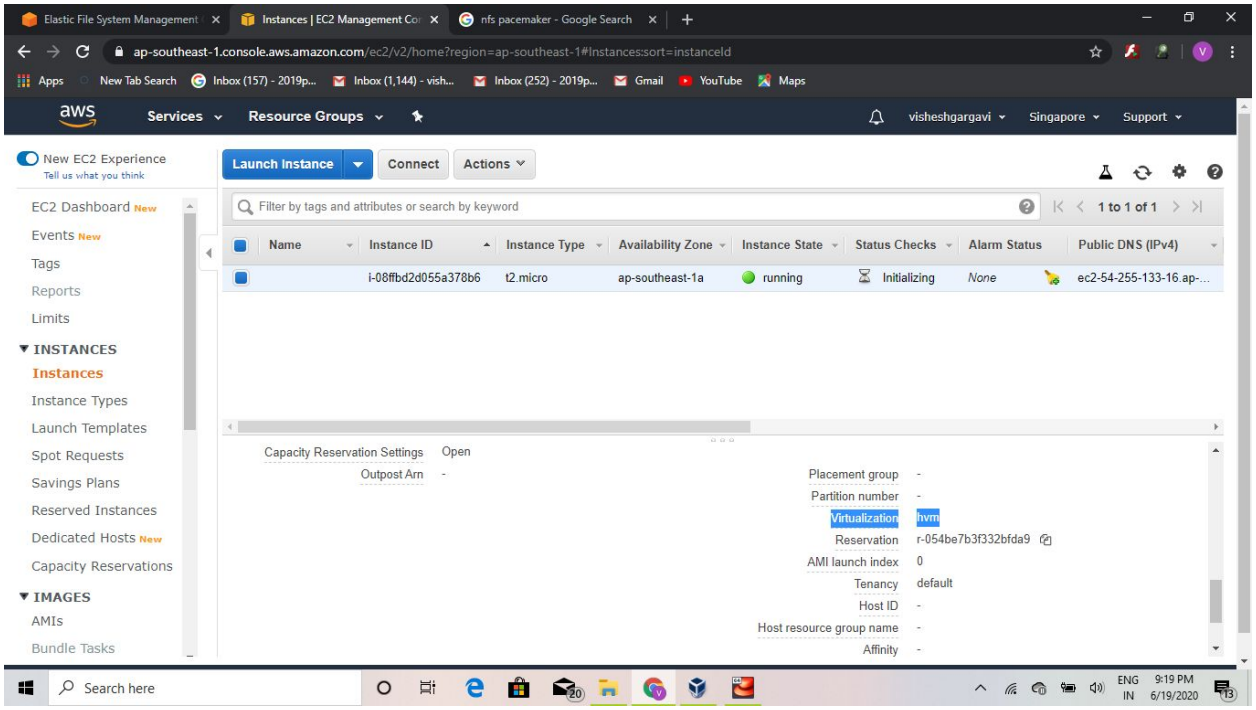
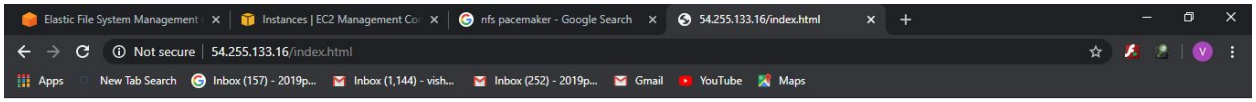
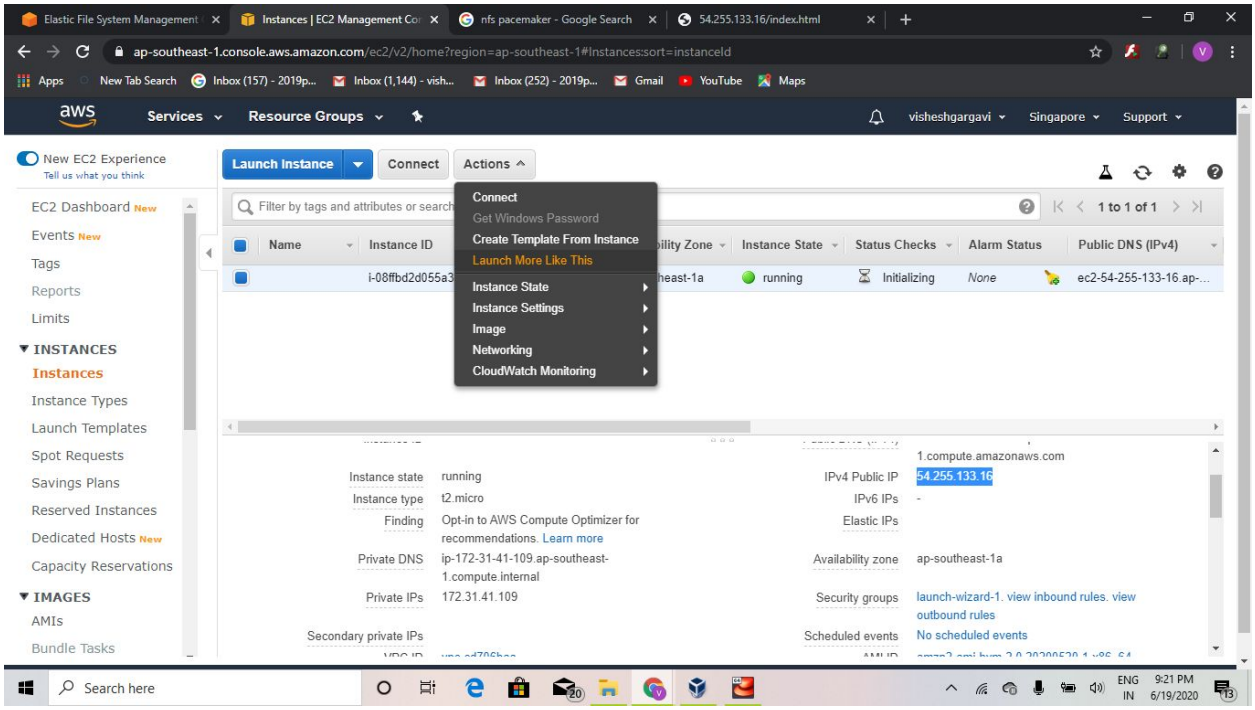
6/19/2020





hii vishesh here


Elastic File System Management
Instances | EC2 Management Co
nfs pacemaker - Google Search
54.255.133.16/index.html
ap-southeast-1.console.aws.amazon.com/ec2/v2/home?region=ap-southeast-1#Instances:sort=instanceId
Apps
New Tab Search
Inbox (157) - 2019p...
Inbox (1,144) - vish...
Inbox (252) - 2019p...
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Maps
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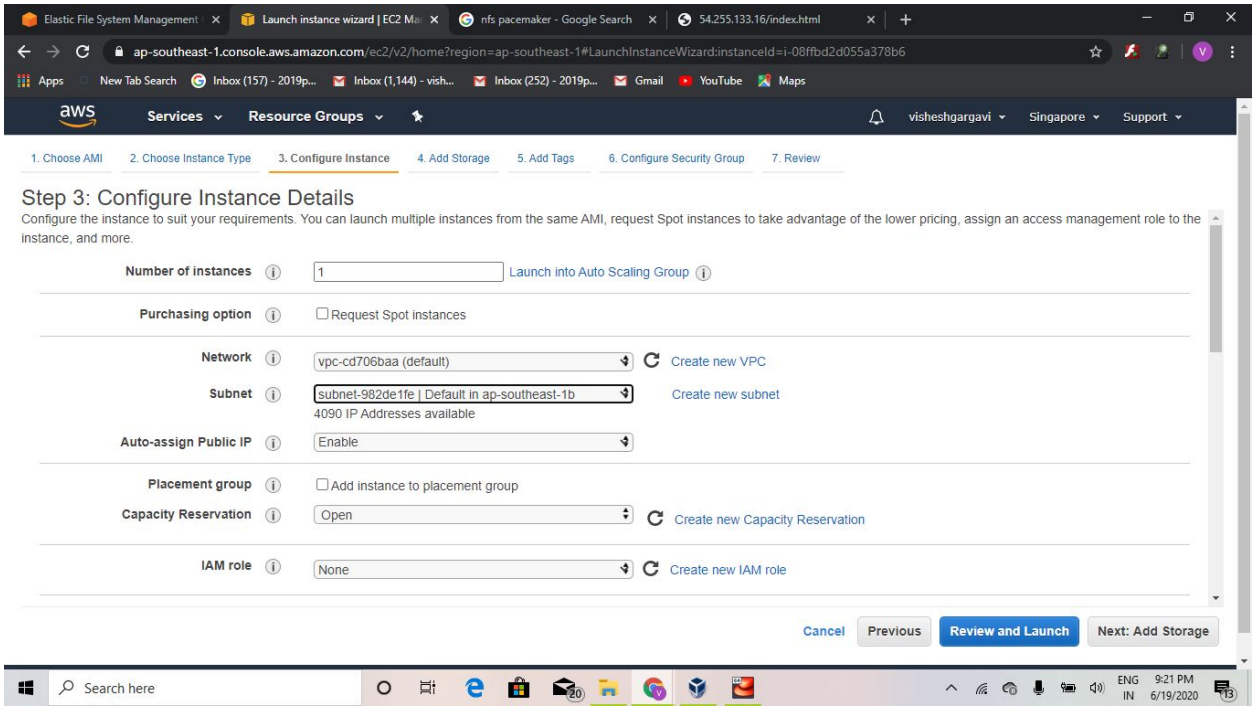
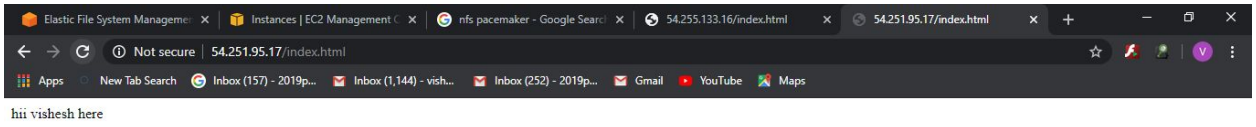
Support
New EC2 Experience
Tell us what you think
EC2 Dashboard New
Events New
Tags
Reports
Limits
INSTANCES
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts New
Capacity Reservations
IMAGES
AMIs
Bundle Tasks
Launch Instance
Connect
Actions
Connect
Get Windows Password
Create Template From Instance
Launch More Like This
Instance State
Instance Settings
Image
Networking
CloudWatch Monitoring
Filter by tags and attributes or search
1 to 1 of 1
Name
Instance ID
Instance State
Status Checks
Alarm Status
Public DNS (IPv4)
running
Initializing
None
Instance state
running
Instance type
t2.micro
Finding
Opt-in to AWS Compute Optimizer for recommendations. Learn more
Private DNS
ip-172-31-41-109.ap-southeast-1.compute.internal
Private IPs
172.31.41.109
Secondary private IPs
IPv4 Public IP
54.255.133.16
IPv6 IPs
Elastic IPs
Availability zone
ap-southeast-1a
Security groups
launch-wizard-1. view inbound rules. view outbound rules
Scheduled events
No scheduled events
Search here
ENG
IN
9:21 PM
6/19/2020





Guest os(VM)
Hypervisor (oracle virtual box)
C:\Users\user\Desktop\kube_cloud>kubectl create -f rs1.yml
replicaset.apps/myweb-rs created

```
C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME            READY   STATUS              RESTARTS   AGE
myweb-rs-wz5tq   0/1     ContainerCreating   0          4s

C:\Users\user\Desktop\kube_cloud>kubectl exec -it myweb-rs-wz5tq -- bash
[root@myweb-rs-wz5tq /]# ls
anaconda-post.log  boot  etc   lib   lost+found  mnt  proc  run   srv  tmp  var
bin                dev   home  lib64  media      opt  root  sbin  sys  usr
[root@myweb-rs-wz5tq /]# cat > p.txt
hii vishesh
[root@myweb-rs-wz5tq /]# cat  p.txt
hii vishesh
[root@myweb-rs-wz5tq /]# ls
anaconda-post.log  boot  etc   lib   lost+found  mnt  p.txt  root  sbin  sys  usr
bin                dev   home  lib64  media      opt  proc   run   srv   tmp  var
[root@myweb-rs-wz5tq /]# exit
exit
C:\Users\user\Desktop\kube_cloud>kubectl describe pod
Name:         myweb-rs-wz5tq
Namespace:    default
Priority:     0
Node:         minikube/192.168.99.100
Start Time:   Fri, 19 Jun 2020 20:28:55 +0530
Labels:       app=webserver
              env=production
              region=IN
Annotations:  <none>
Status:       Running
IP:           172.17.0.6
IPs:
  IP:           172.17.0.6
Controlled By:  ReplicaSet/myweb-rs
Containers:
  myweb-con:
    Container ID:
docker://0ba874646b1bd3666f2b4c0189b8259053bc5e8531a7ba020c4871352df22ad5
    Image:          vimal13/apache-webserver-php
    Image ID:
docker-pullable://vimal13/apache-webserver-php@sha256:faed0a5afaf9f04b6915d73f7247f6f5a
71db9274ca44118d38f4601c0080a91
    Port:           <none>
    Host Port:      <none>
```

```
    State:          Running
      Started:      Fri, 19 Jun 2020 20:29:01 +0530
    Ready:          True
    Restart Count:  0
    Environment:
      x:  5
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from default-token-8llwm (ro)
Conditions:
  Type              Status
  Initialized       True
  Ready             True
  ContainersReady   True
  PodScheduled      True
Volumes:
  default-token-8llwm:
    Type:        Secret (a volume populated by a Secret)
    SecretName:  default-token-8llwm
    Optional:    false
QoS Class:       BestEffort
Node-Selectors:  <none>
Tolerations:     node.kubernetes.io/not-ready:NoExecute for 300s
                 node.kubernetes.io/unreachable:NoExecute for 300s
Events:
  Type    Reason     Age   From               Message
  ----    ------     ----  ----               -------
  Normal  Scheduled  74s   default-scheduler  Successfully assigned default/myweb-rs-wz5tq to
minikube
  Normal  Pulling    73s   kubelet, minikube  Pulling image "vimal13/apache-webserver-php"
  Normal  Pulled     69s   kubelet, minikube  Successfully pulled image
"vimal13/apache-webserver-php"
  Normal  Created    69s   kubelet, minikube  Created container myweb-con
  Normal  Started    68s   kubelet, minikube  Started container myweb-con

C:\Users\user\Desktop\kube_cloud>kubectl delete pods myweb-rs-wz5tq
pod "myweb-rs-wz5tq" deleted

C:\Users\user\Desktop\kube_cloud>kubectl get pods
NAME            READY   STATUS              RESTARTS   AGE
myweb-rs-ch49r   0/1     ContainerCreating   0          6s

C:\Users\user\Desktop\kube_cloud>kubectl exec -it myweb-rs-ch49r -- bash
[root@myweb-rs-ch49r /]# ls
```

```
anaconda-post.log  boot  etc   lib    lost+found  mnt  proc  run   srv  tmp  var
bin                dev   home  lib64  media       opt  root  sbin  sys  usr
[root@myweb-rs-ch49r /]# exit
exit

C:\Users\user\Desktop\kube_cloud>
```