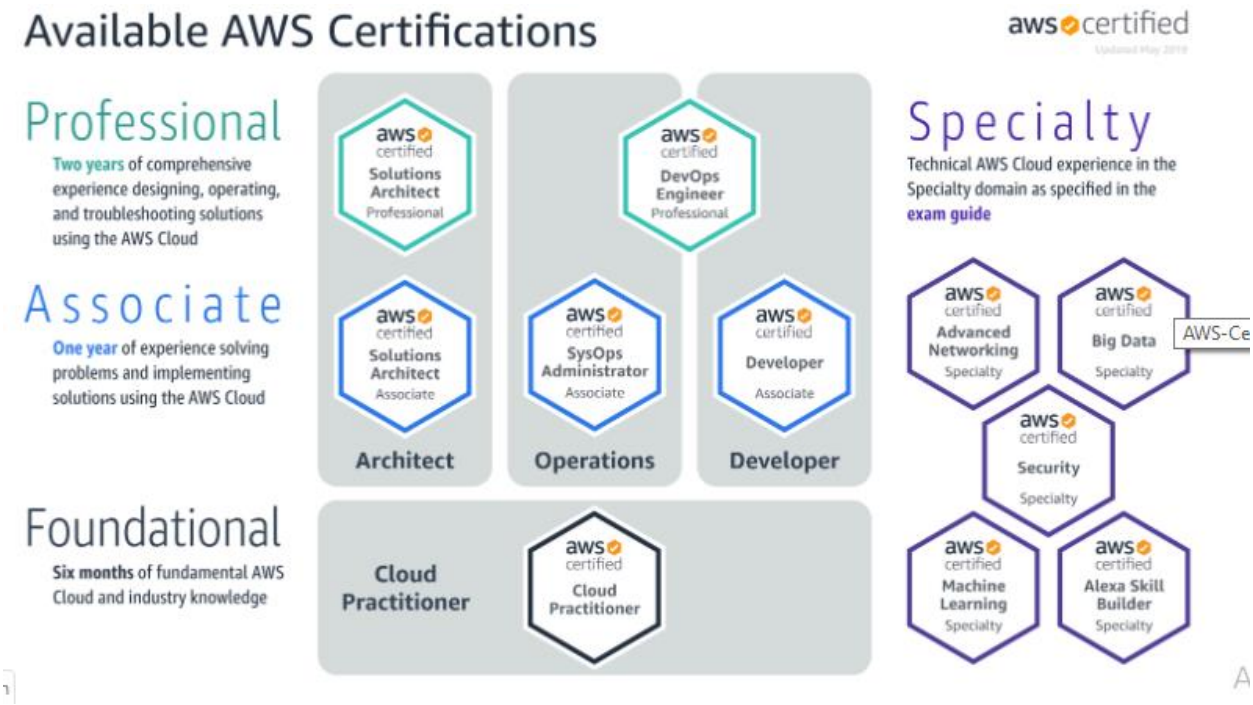
Type of Position and Certification in AWS



Learning Paths

Cloud Practitioner path

Architect path

Developer path

Operations path

Our Exams

AWS Certified Cloud Practitioner

This certification provides individuals in a larger variety of cloud and technology roles with a way to validate their AWS Cloud knowledge and enhance their professional credibility. This exam covers four domains, including cloud concepts, security, technology, and billing and pricing.

AWS Certified Solutions Architect – Associate

This certification validates your ability to effectively demonstrate knowledge of how to architect and deploy secure and robust applications on AWS technologies. This exam is for anyone with at least one year of hands-on experience designing available, cost-efficient, fault-tolerant, and scalable and distributed systems on AWS.

AWS Certified Developer – Associate

This certification validates proficiency in developing, deploying, and debugging cloud-based applications using AWS. This exam is for anyone with one or more years of hands-on experience developing and maintaining an AWS-based application, plus in-depth knowledge of at least one high-level programming language.

AWS Certified SysOps Administrator – Associate

This certification validates your technical expertise in deployment, management, and operations on the AWS platform. This exam is for anyone with one or more years of hands-on experience operating AWS-based applications.

AWS Certified Solutions Architect – Professional

This certification validates your advanced technical skills and experience in designing distributed applications and systems on the AWS platform. This exam is anyone two or more years of hands-on experience designing and deploying cloud architecture on AWS.

AWS Certified DevOps Engineer – Professional

This certification validates your technical expertise in provisioning, operating, and managing distributed application systems on the AWS platform. This exam is for anyone with two or more years of hands-on experience provisioning, operating, and managing AWS environments.

AWS Certified Security – Specialty

This certification validates your technical expertise in securing the AWS platform. This exam is for anyone in an experienced security role.

AWS Certified Big Data – Specialty

This certification validates your technical expertise in designing and implementing AWS services to derive value from data. This exam is for anyone who performs complex Big Data analyses.

AWS Certified Advanced Networking – Specialty

This certification validates your technical expertise in designing and implementing AWS and hybrid IT architectures at scale. This exam is for anyone who performs complex networking tasks.

AWS Certified Machine Learning – Specialty

This certification validates your technical expertise in building, training, tuning, and deploying machine learning (ML) models using AWS Cloud. This exam is for anyone who performs a development or data science role.

AWS Certified Alexa Skill Builder – Specialty

This certification validates your technical expertise in building, testing, and publishing Amazon Alexa skills. This exam is for anyone who performs a role as an Alexa skill builder.

The main coursysops administrators, systems administrators

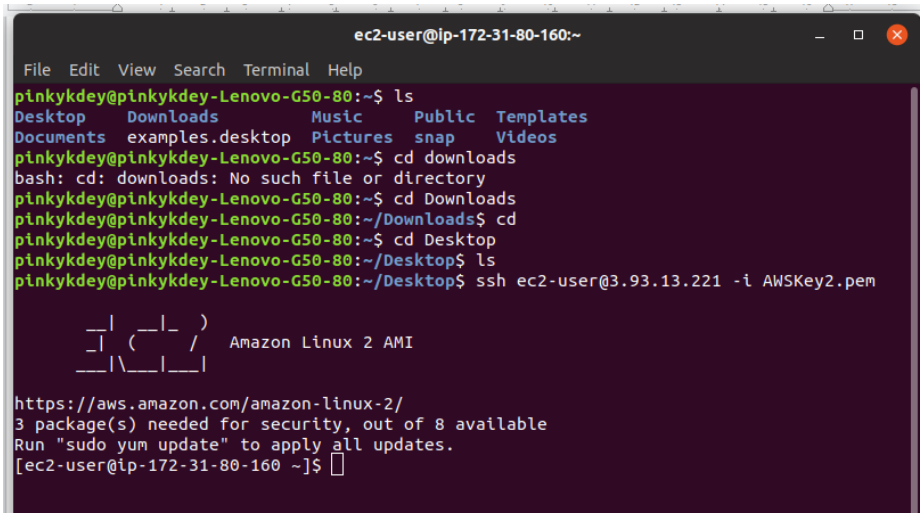
How do I set up SSH access for an Amazon EC2 instance?

Basically, you need a private-key file to login into your EC2 via SSH. Follow these steps to create one:

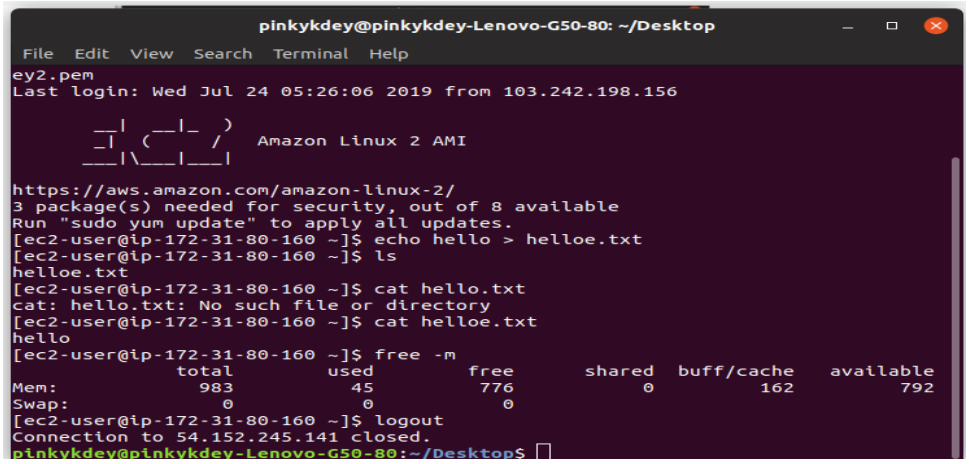
- Go https://console.aws.amazon.com/ec2/home & sign in to your existing Amazon account.

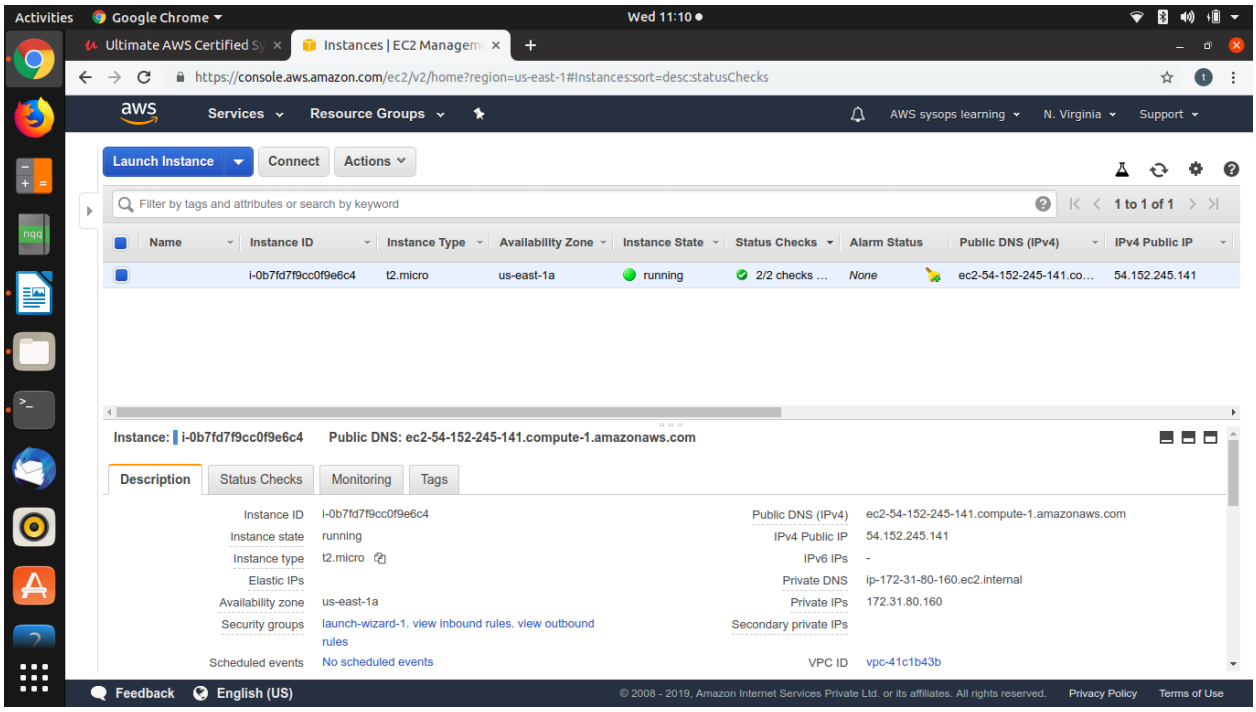
- Click on "Key Pairs" on LHS or https://console.aws.amazon.com/ec2/home?region=us-east-1#s=KeyPairs.
  - You should see the list of KEYs generated by you (or during EC2 creation process).
  - Click on "Create Key Pair" if you don't see any or you lost your private-key.
  - Enter a unique name and hit enter.
  - A download panel will appear for you to save the private-key, save it.
  - Keep it somewhere with the file permission "0600"
- Click on "Instances" on LHS or https://console.aws.amazon.com/ec2/home?region=us-east-1#s=Instances
  - You should see the list of ec2-instances, if you don't see any, then please create one.
  - Click on the EC2 machine and note down the Public DNS address.
- Open your Terminal (in Linux) and type the following command
  - ssh -i /path/to/private-key root@<ec2-public-dns-address> - the root username has been avoided in the latest releases, based on your distribution select ec2-user or ubuntu as your username.
  - hit Enter

1. Launching an EC2 Instance



2. Changing EC2 Instance Type

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Instance Type
Availability Zone
Instance State
Status Checks
Alarm Status
Public DNS (IPv4)
IPv4 Public IP
i-0b7fd7f9cc0f9e6c4
t2.micro
us-east-1a
running
2/2 checks ...
None
ec2-54-152-245-141.co...
54.152.245.141
Instance: i-0b7fd7f9cc0f9e6c4
Public DNS: ec2-54-152-245-141.compute-1.amazonaws.com
Description
Status Checks
Monitoring
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i-0b7fd7f9cc0f9e6c4
Instance state
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Secondary private IPs
VPC ID
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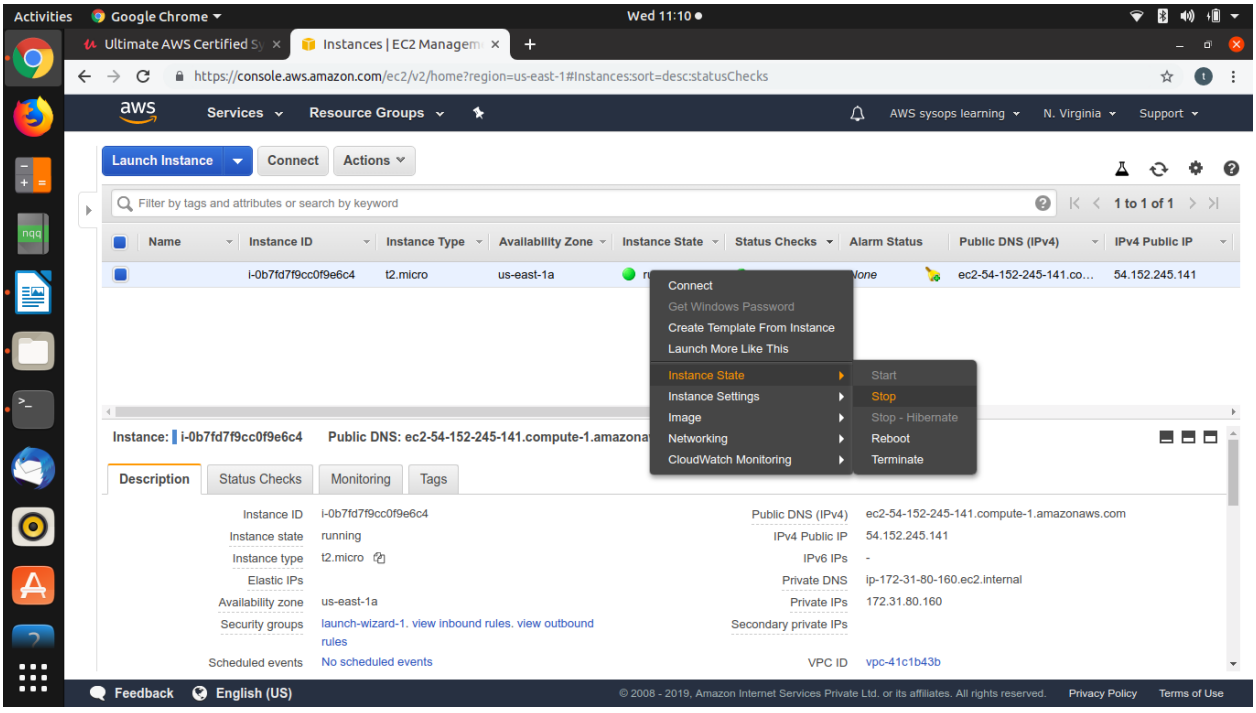
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Instance State
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Connect
Get Windows Password
Create Template From Instance
Launch More Like This
Instance State
Instance Settings
Image
Networking
CloudWatch Monitoring
Start
Stop
Stop - Hibernate
Reboot
Terminate
Instance: i-0b7fd7f9cc0f9e6c4
Description
Status Checks
Monitoring
Tags
Instance ID
i-0b7fd7f9cc0f9e6c4
Instance state
running
Instance type
t2.micro
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Security groups
launch-wizard-1. view inbound rules. view outbound rules
Scheduled events
No scheduled events
Public DNS (IPv4)
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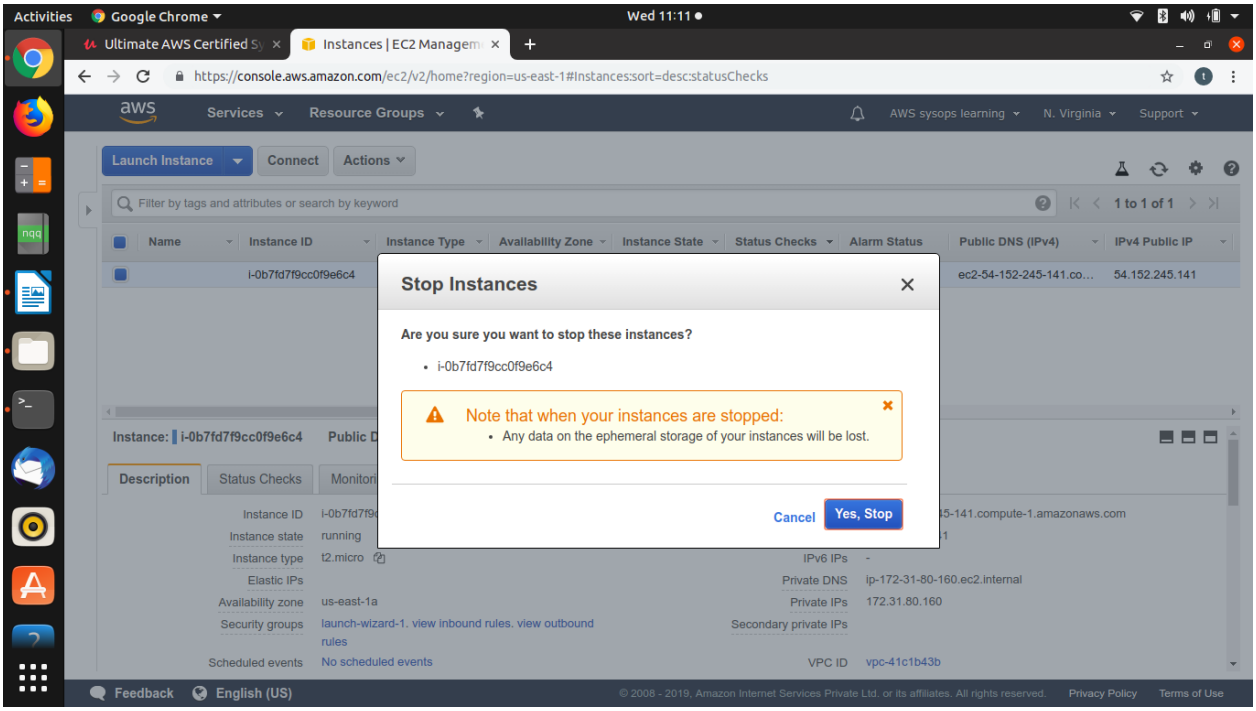
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Instance Type
Availability Zone
Instance State
Status Checks
Alarm Status
Public DNS (IPv4)
IPv4 Public IP
i-0b7fd7f9cc0f9e6c4
ec2-54-152-245-141.co...
54.152.245.141
Stop Instances
Are you sure you want to stop these instances?
i-0b7fd7f9cc0f9e6c4
Note that when your instances are stopped:
Any data on the ephemeral storage of your instances will be lost.
Cancel
Yes, Stop
Instance: i-0b7fd7f9cc0f9e6c4
Description
Status Checks
Monitoring
Instance ID
Instance state
running
Instance type
t2.micro
Elastic IPs
Availability zone
us-east-1a
Security groups
launch-wizard-1. view inbound rules. view outbound rules
Scheduled events
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IPv6 IPs
Private DNS
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Private IPs
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Secondary private IPs
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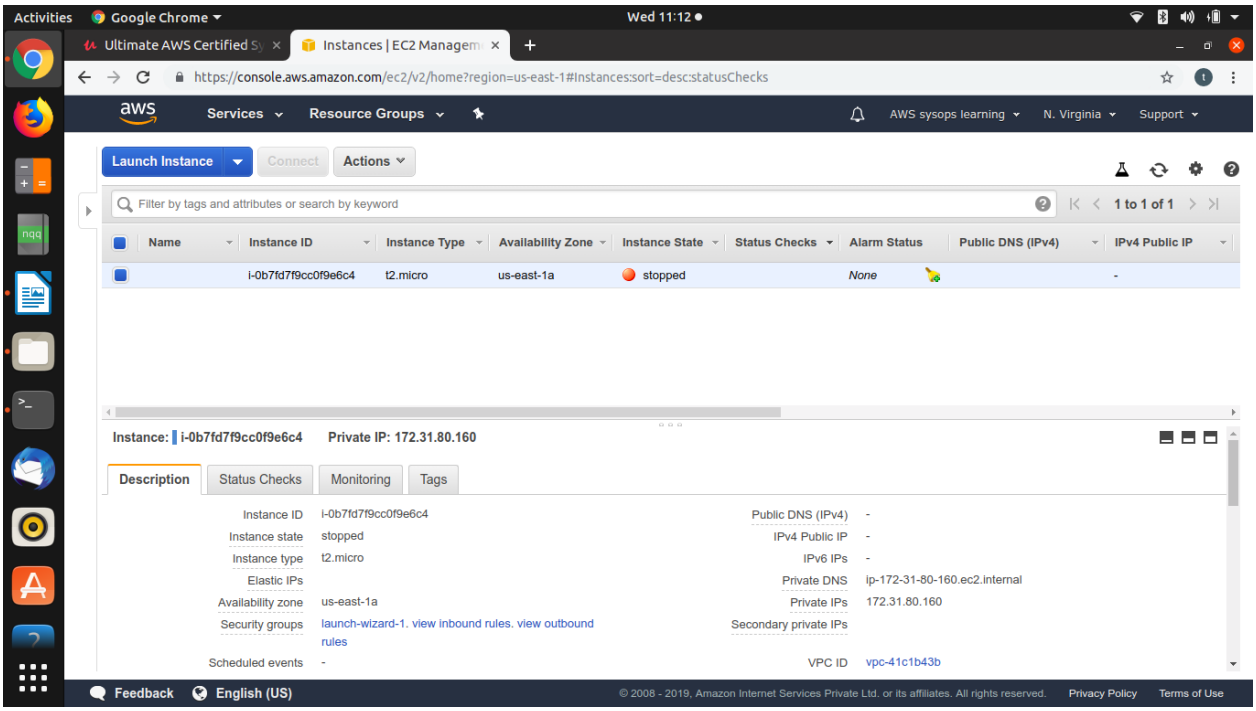
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Public DNS (IPv4)
IPv4 Public IP
i-0b7fd7f9cc0f9e6c4
t2.micro
us-east-1a
stopped
None
Instance: i-0b7fd7f9cc0f9e6c4
Private IP: 172.31.80.160
Description
Status Checks
Monitoring
Tags
Instance ID
i-0b7fd7f9cc0f9e6c4
Instance state
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Secondary private IPs
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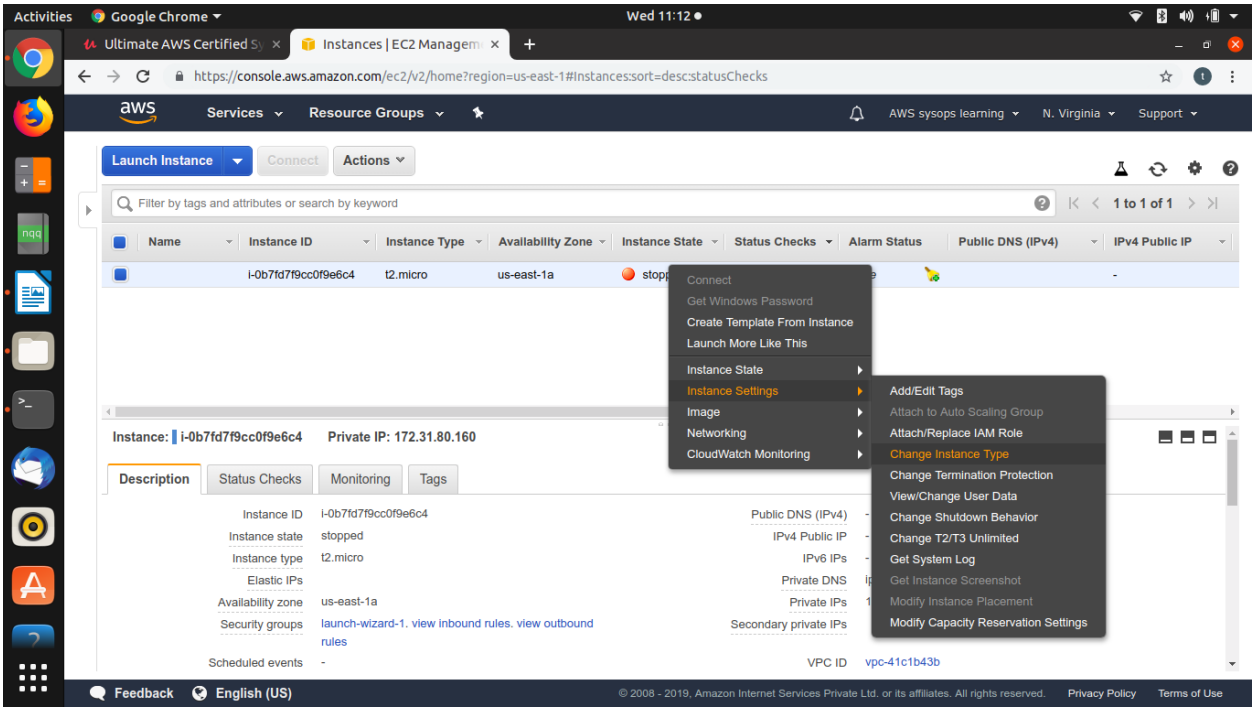
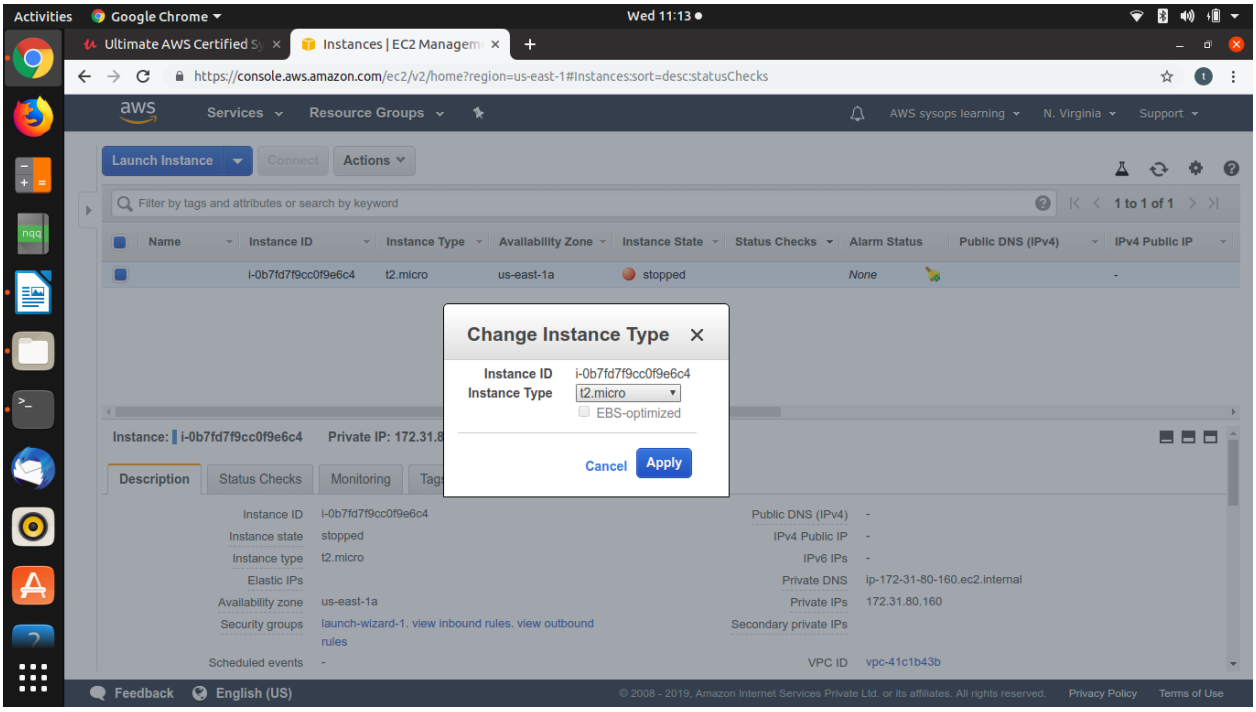
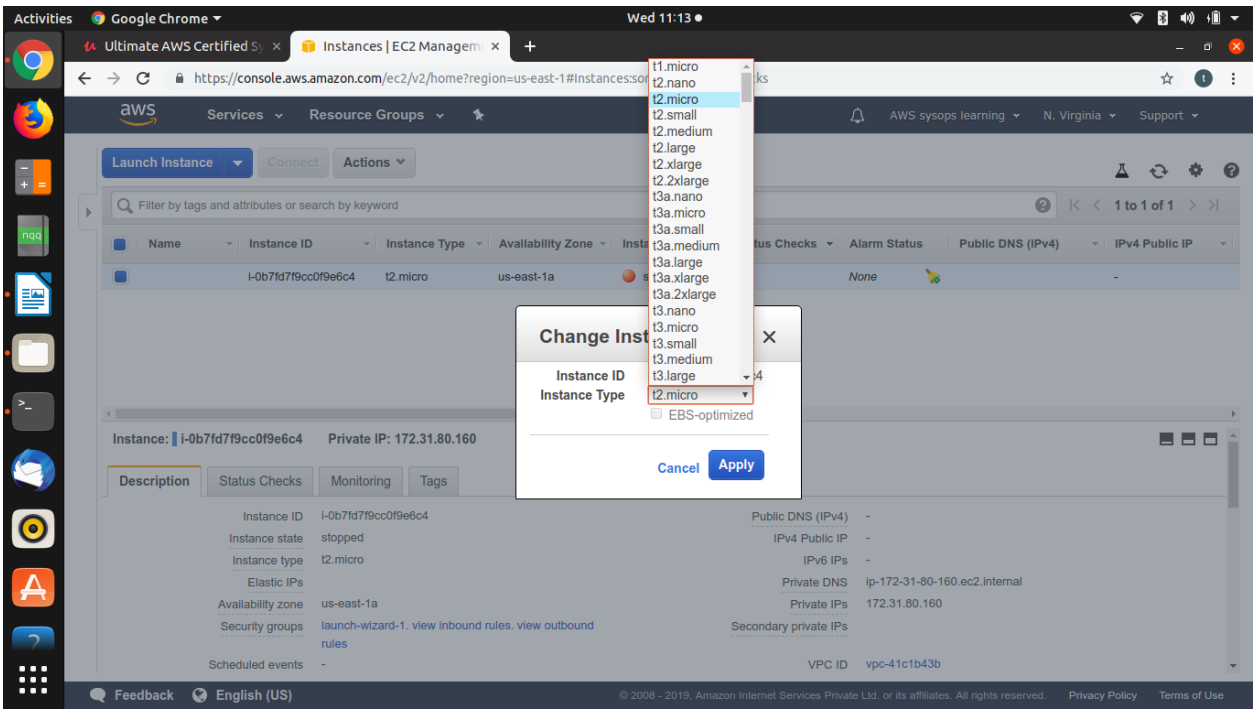
3. EC2 Placement Groups



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t2.micro
us-east-1a
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t1.micro
t2.nano
t2.micro
t2.small
t2.medium
t2.large
t2.xlarge
t2.2xlarge
t3a.nano
t3a.micro
t3a.small
t3a.medium
t3a.large
t3a.xlarge
t3a.2xlarge
t3.nano
t3.micro
t3.small
t3.medium
t3.large
Change Inst
Instance ID
Instance Type
t2.micro
EBS-optimized
Cancel
Apply
Instance: i-0b7fd7f9cc0f9e6c4
Private IP: 172.31.80.160
Description
Status Checks
Monitoring
Tags
Instance ID
i-0b7fd7f9cc0f9e6c4
Instance state
stopped
Instance type
t2.micro
Elastic IPs
Availability zone
us-east-1a
Security groups
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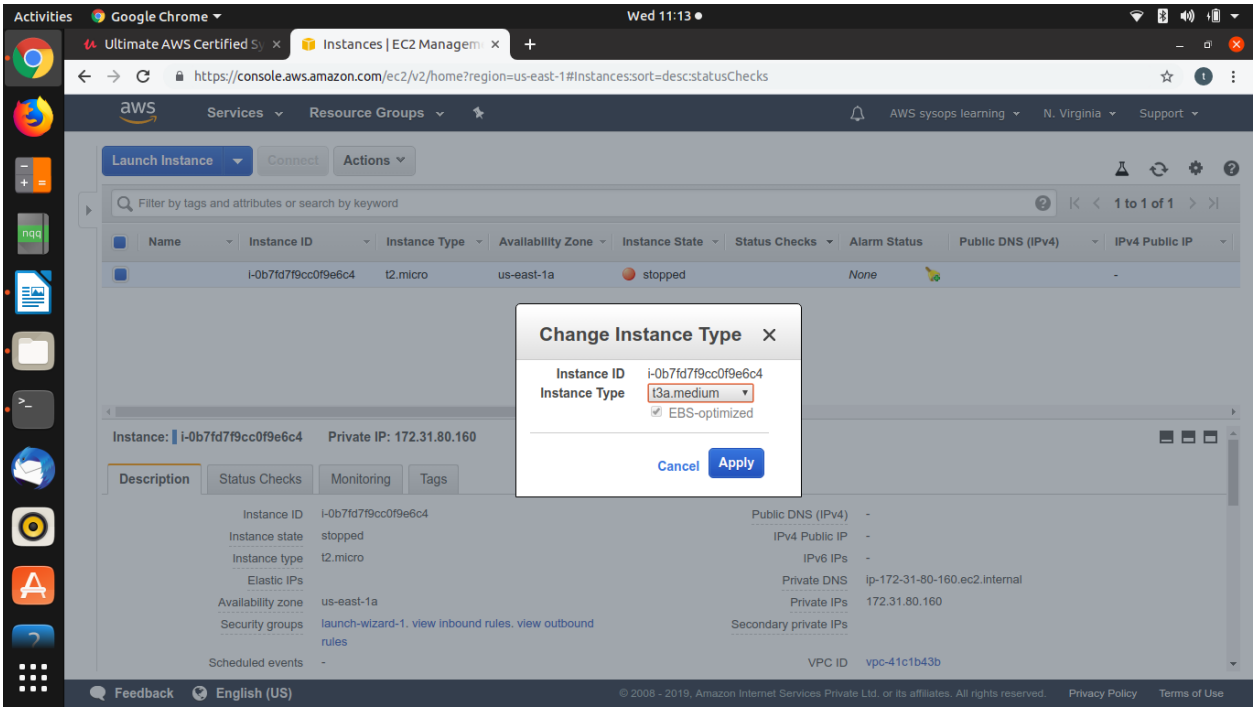
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us-east-1a
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None
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Instance ID
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Instance Type
t3a.medium
EBS-optimized
Cancel
Apply
Instance: i-0b7fd7f9cc0f9e6c4
Private IP: 172.31.80.160
Description
Status Checks
Monitoring
Tags
Instance ID
i-0b7fd7f9cc0f9e6c4
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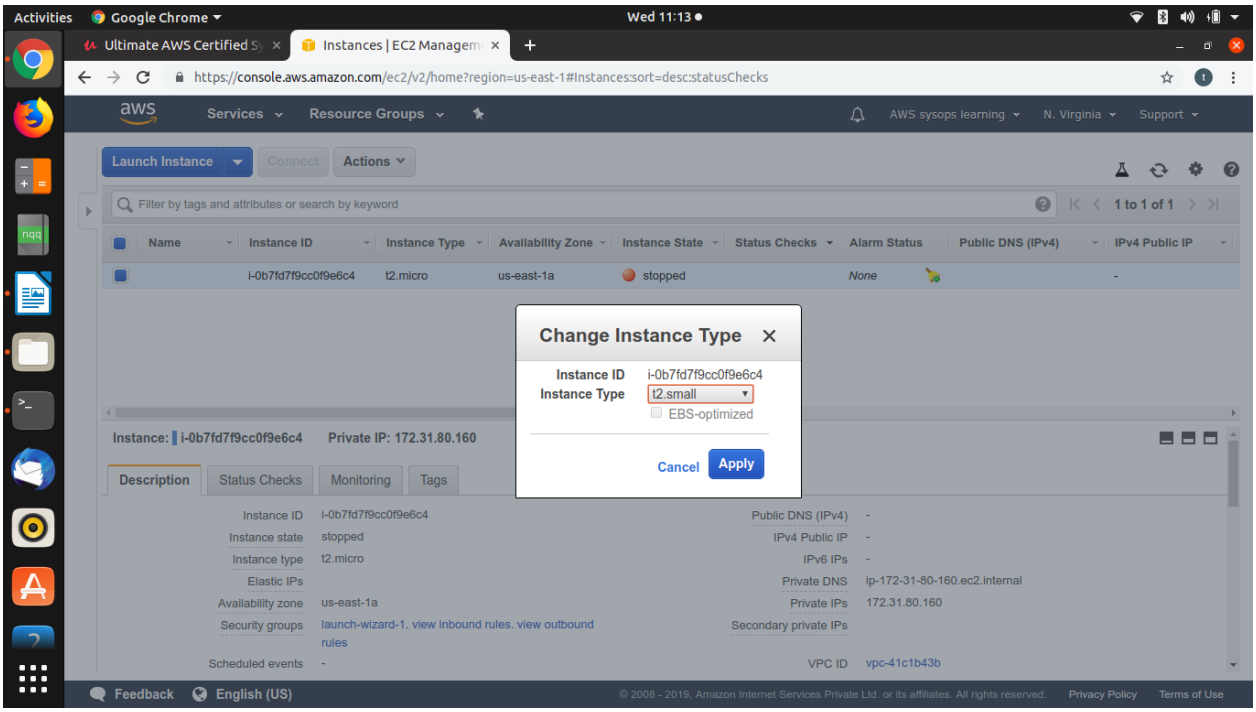
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stopped
None
Change Instance Type
Instance ID
i-0b7fd7f9cc0f9e6c4
Instance Type
t2.small
EBS-optimized
Cancel
Apply
Instance: i-0b7fd7f9cc0f9e6c4
Private IP: 172.31.80.160
Description
Status Checks
Monitoring
Tags
Instance ID
i-0b7fd7f9cc0f9e6c4
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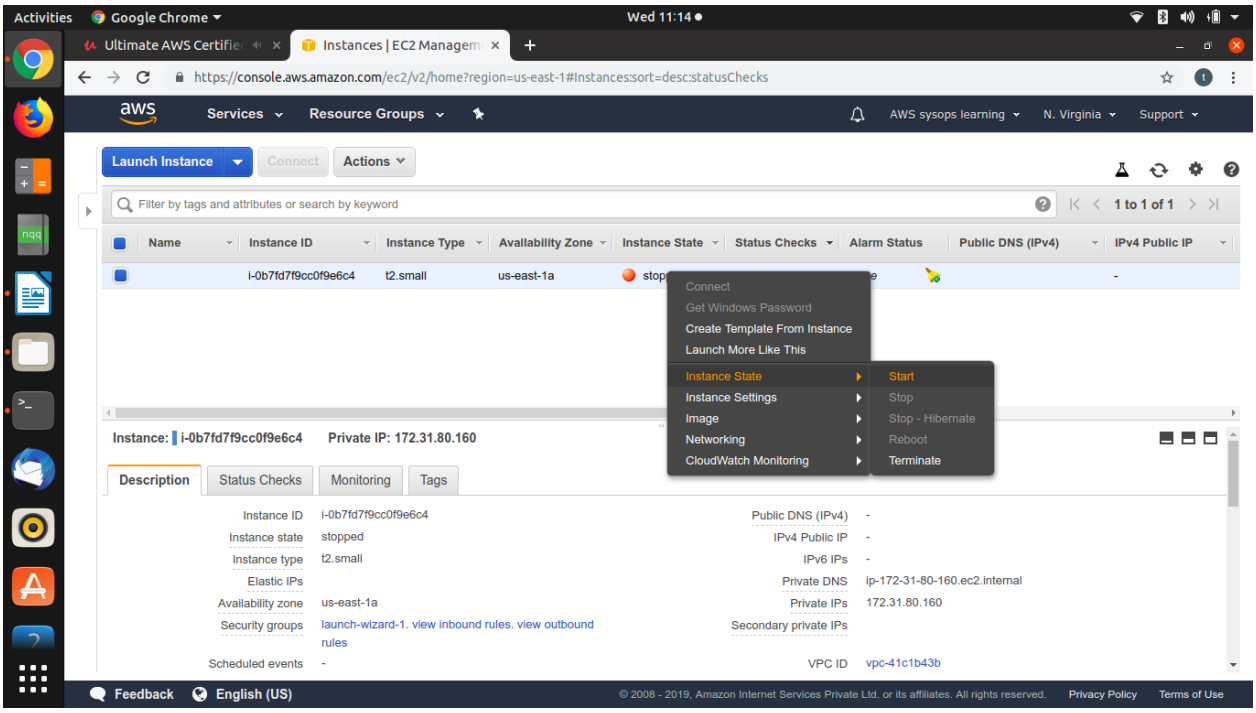
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1 to 1 of 1
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Get Windows Password
Create Template From Instance
Launch More Like This
Instance State
Instance Settings
Image
Networking
CloudWatch Monitoring
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Stop
Stop - Hibernate
Reboot
Terminate
Instance: i-0b7fd7f9cc0f9e6c4
Private IP: 172.31.80.160
Description
Status Checks
Monitoring
Tags
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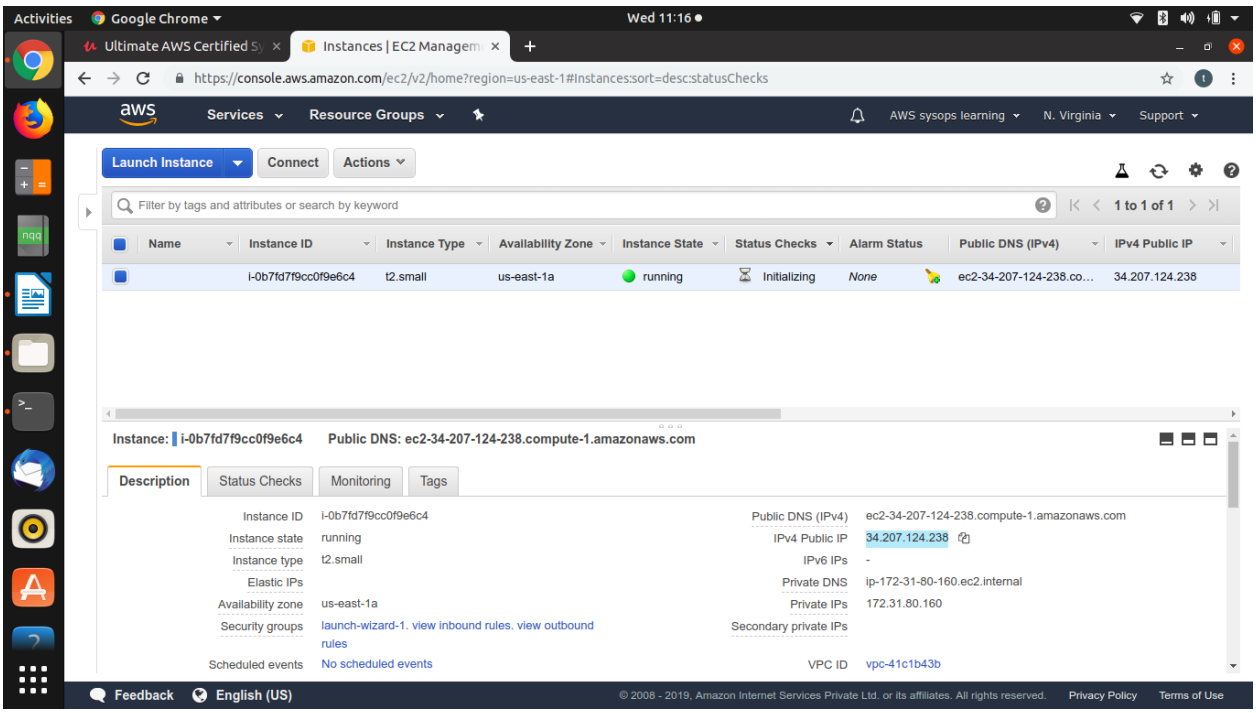
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Instance ID
Instance Type
Availability Zone
Instance State
Status Checks
Alarm Status
Public DNS (IPv4)
IPv4 Public IP
i-0b7fd7f9cc0f9e6c4
t2.small
us-east-1a
running
Initializing
None
ec2-34-207-124-238.co...
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Instance: i-0b7fd7f9cc0f9e6c4
Public DNS: ec2-34-207-124-238.compute-1.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-0b7fd7f9cc0f9e6c4
Instance state
running
Instance type
t2.small
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Availability zone
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Scheduled events
No scheduled events
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ec2-34-207-124-238.compute-1.amazonaws.com
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IPv6 IPs
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Private DNS
ip-172-31-80-160.ec2.internal
Private IPs
172.31.80.160
Secondary private IPs
VPC ID
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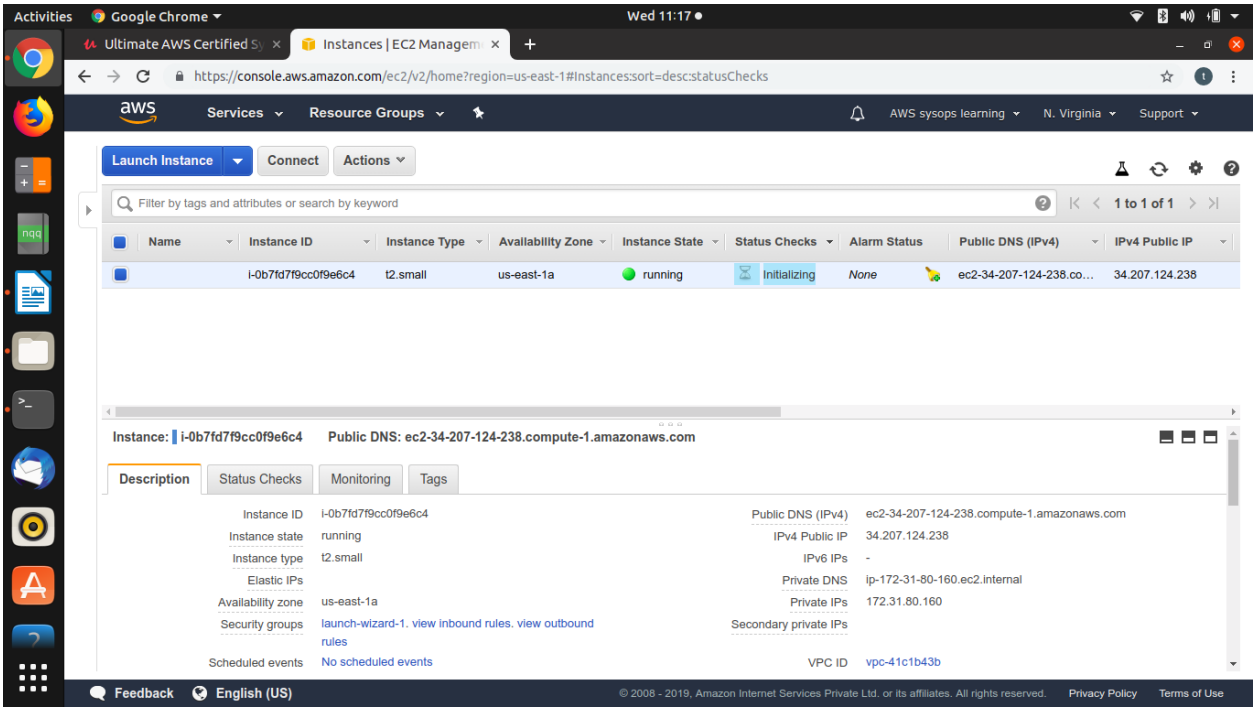
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N. Virginia
Support
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1 to 1 of 1
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Availability Zone
Instance State
Status Checks
Alarm Status
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IPv4 Public IP
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t2.small
us-east-1a
running
Initializing
None
ec2-34-207-124-238.co...
34.207.124.238
Instance: i-0b7fd7f9cc0f9e6c4
Public DNS: ec2-34-207-124-238.compute-1.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-0b7fd7f9cc0f9e6c4
Instance state
running
Instance type
t2.small
Elastic IPs
Availability zone
us-east-1a
Security groups
launch-wizard-1. view inbound rules. view outbound rules
Scheduled events
No scheduled events
Public DNS (IPv4)
ec2-34-207-124-238.compute-1.amazonaws.com
IPv4 Public IP
34.207.124.238
IPv6 IPs
-
Private DNS
ip-172-31-80-160.ec2.internal
Private IPs
172.31.80.160
Secondary private IPs
VPC ID
vpc-41c1b43b
Feedback
English (US)
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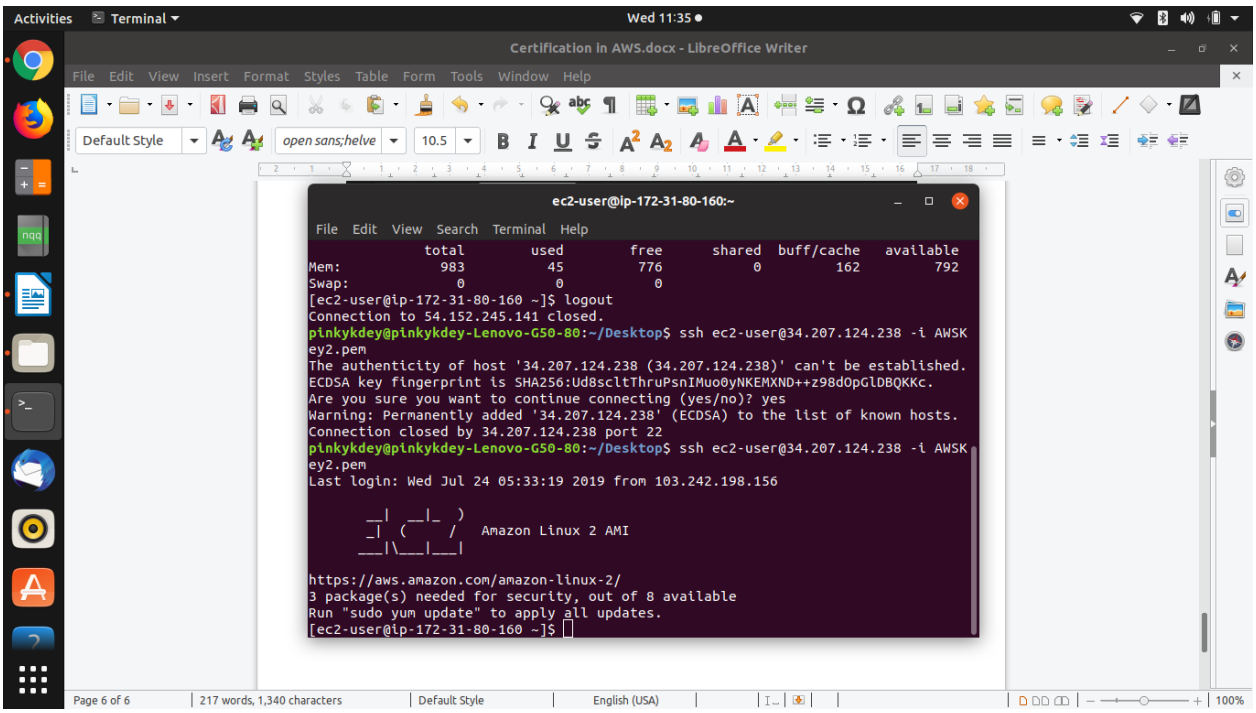
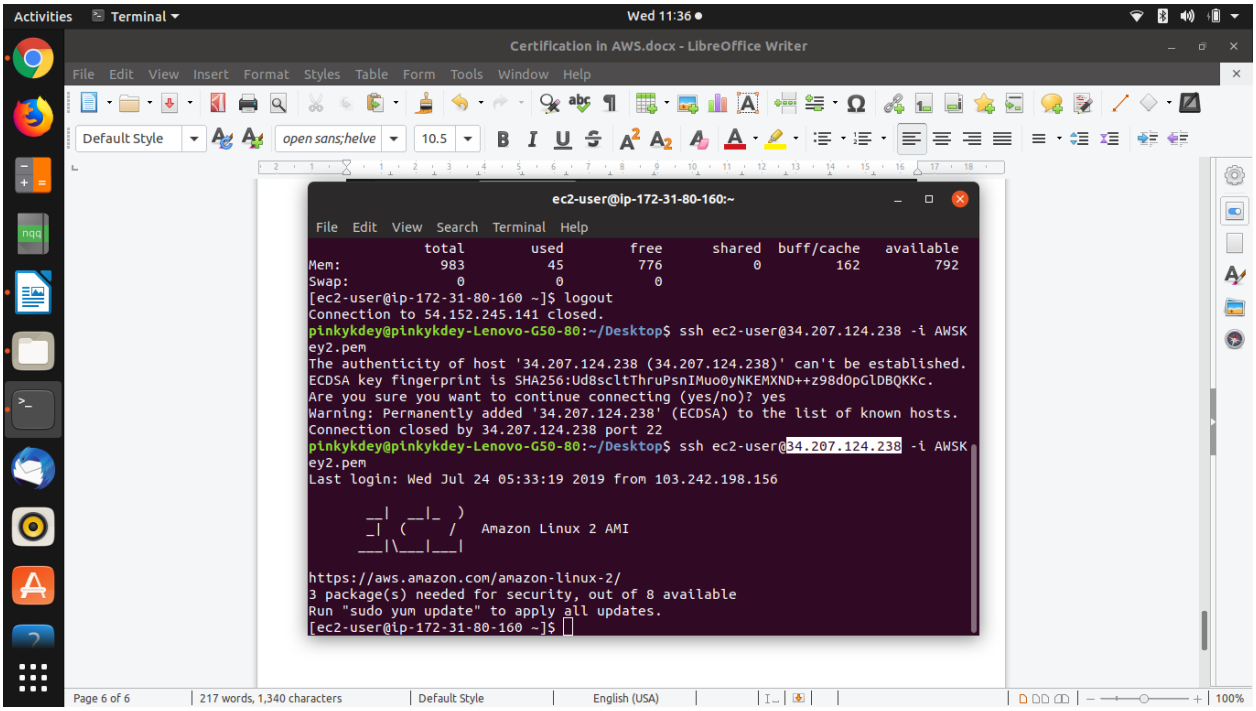
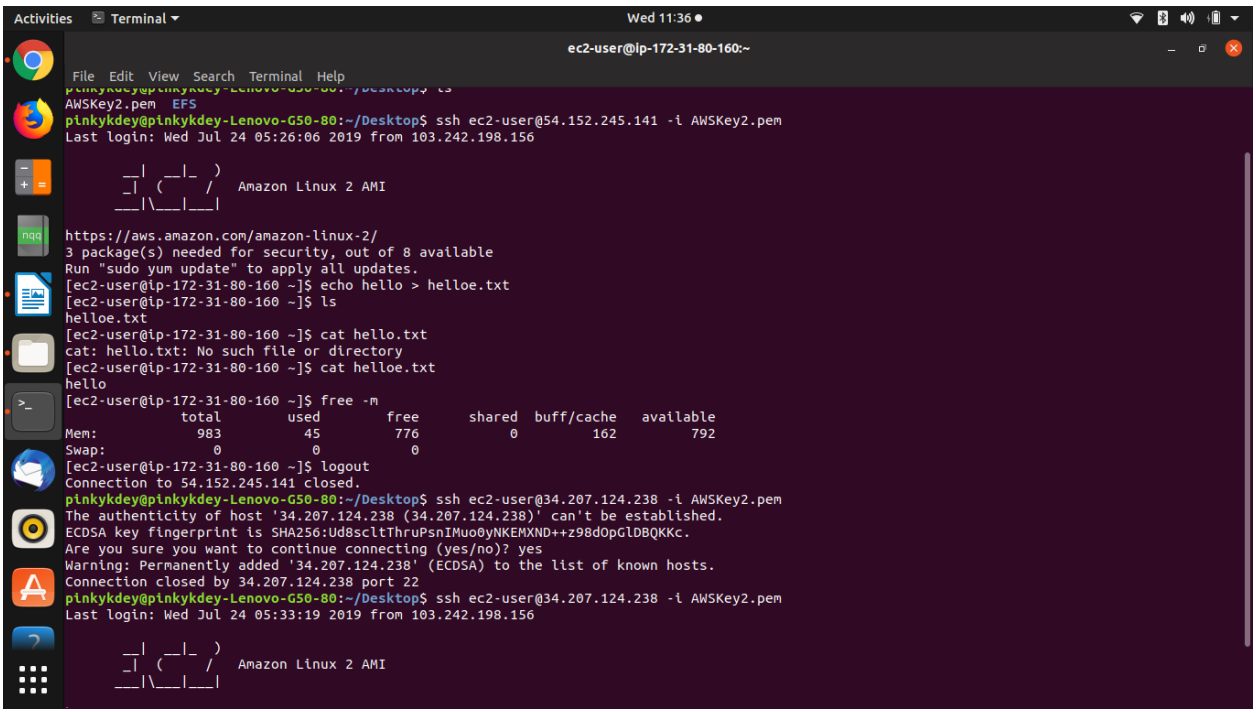
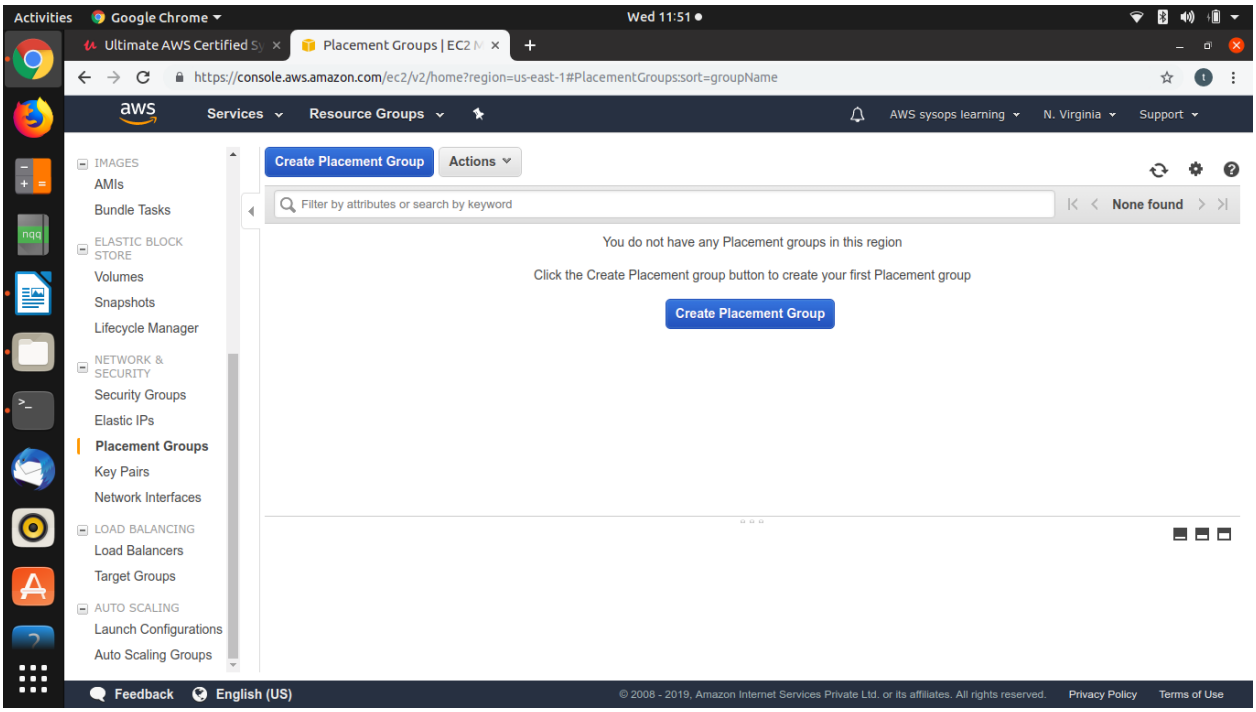
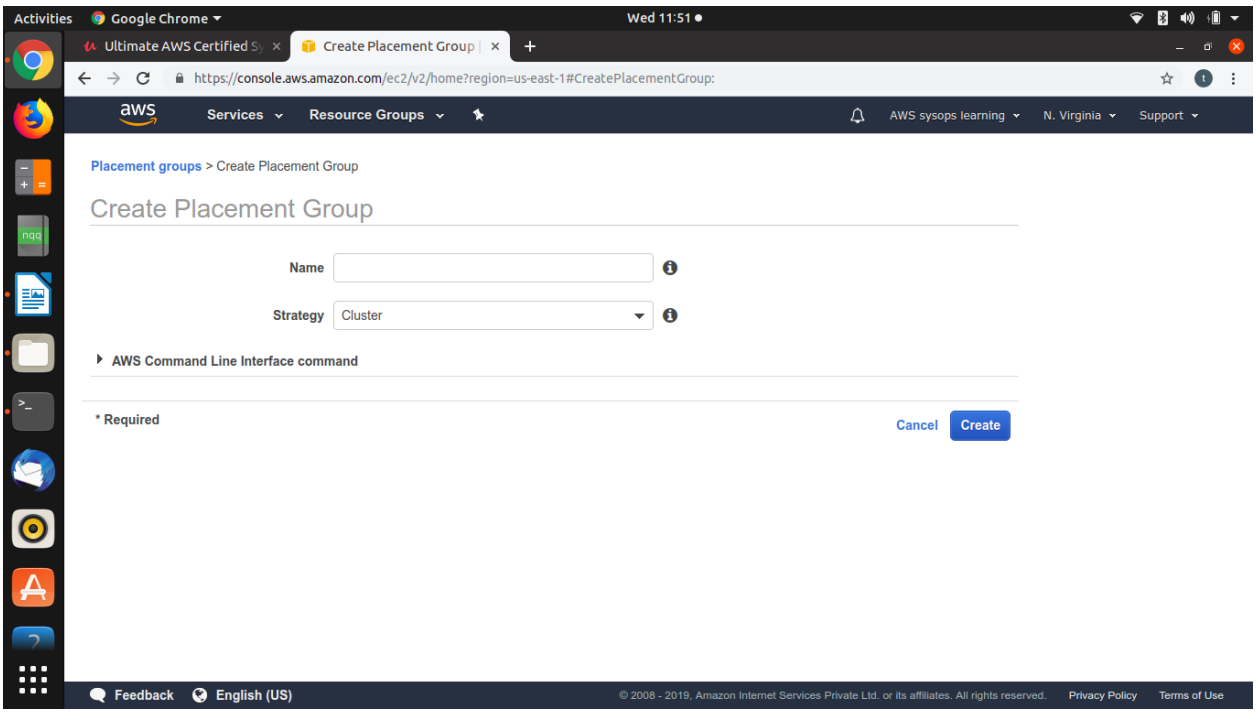

Activities
Terminal
Wed 11:35
Certification in AWS.docx - LibreOffice Writer
File Edit View Insert Format Styles Table Form Tools Window Help
Default Style
open sans;helve
10.5
ec2-user@ip-172-31-80-160:~
File Edit View Search Terminal Help
total used free shared buff/cache available
Mem: 983 45 776 0 162 792
Swap: 0 0 0
[ec2-user@ip-172-31-80-160 ~]$ logout
Connection to 54.152.245.141 closed.
pinkykdey@pinkykdey-Lenovo-G50-80:~/Desktop$ ssh ec2-user@34.207.124.238 -i AWSK
ey2.pem
The authenticity of host '34.207.124.238 (34.207.124.238)' can't be established.
ECDSA key fingerprint is SHA256:Ud8scltThruPsnIMuo0yNKEMXND++z98dOpGlDBQKKc.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '34.207.124.238' (ECDSA) to the list of known hosts.
Connection closed by 34.207.124.238 port 22
pinkykdey@pinkykdey-Lenovo-G50-80:~/Desktop$ ssh ec2-user@34.207.124.238 -i AWSK
ey2.pem
Last login: Wed Jul 24 05:33:19 2019 from 103.242.198.156
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
3 package(s) needed for security, out of 8 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-80-160 ~]$
Page 6 of 6
217 words, 1,340 characters
Default Style
English (USA)
100%


Activities
Terminal
Wed 11:36
Certification in AWS.docx - LibreOffice Writer
File Edit View Insert Format Styles Table Form Tools Window Help
Default Style
open sans;helve
10.5
ec2-user@ip-172-31-80-160:~
File Edit View Search Terminal Help
total used free shared buff/cache available
Mem: 983 45 776 0 162 792
Swap: 0 0 0
[ec2-user@ip-172-31-80-160 ~]$ logout
Connection to 54.152.245.141 closed.
pinkykdey@pinkykdey-Lenovo-G50-80:~/Desktop$ ssh ec2-user@34.207.124.238 -i AWSK
ey2.pem
The authenticity of host '34.207.124.238 (34.207.124.238)' can't be established.
ECDSA key fingerprint is SHA256:Ud8scltThruPsnIMuo0yNKEMXND++z98dOpGlDBQKKc.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '34.207.124.238' (ECDSA) to the list of known hosts.
Connection closed by 34.207.124.238 port 22
pinkykdey@pinkykdey-Lenovo-G50-80:~/Desktop$ ssh ec2-user@34.207.124.238 -i AWSK
ey2.pem
Last login: Wed Jul 24 05:33:19 2019 from 103.242.198.156
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
3 package(s) needed for security, out of 8 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-80-160 ~]$
Page 6 of 6
217 words, 1,340 characters
Default Style
English (USA)
100%



3. EC2 Placement Groups




Activities
Google Chrome
Wed 11:51
Ultimate AWS Certified Sy
Create Placement Group
https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#CreatePlacementGroup:
aws
Services
Resource Groups
AWS sysops learning
N. Virginia
Support
Placement groups > Create Placement Group
Create Placement Group
Name
Strategy
Cluster
AWS Command Line Interface command
* Required
Cancel
Create
Feedback
English (US)
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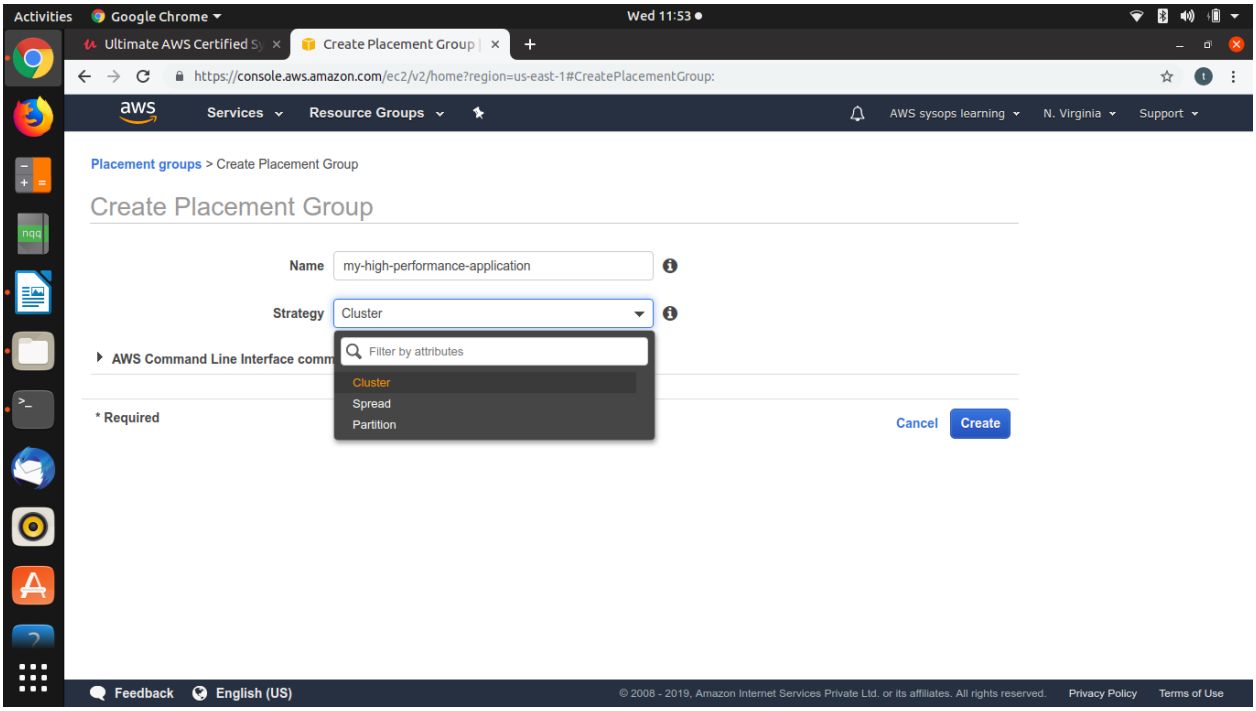
Activities
Google Chrome
Wed 11:53
Ultimate AWS Certified Sy
Create Placement Group
https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#CreatePlacementGroup:
aws
Services
Resource Groups
AWS sysops learning
N. Virginia
Support
Placement groups > Create Placement Group
Create Placement Group
Name
my-high-performance-application
Strategy
Cluster
Filter by attributes
Cluster
Spread
Partition
AWS Command Line Interface comm
* Required
Cancel
Create
Feedback
English (US)
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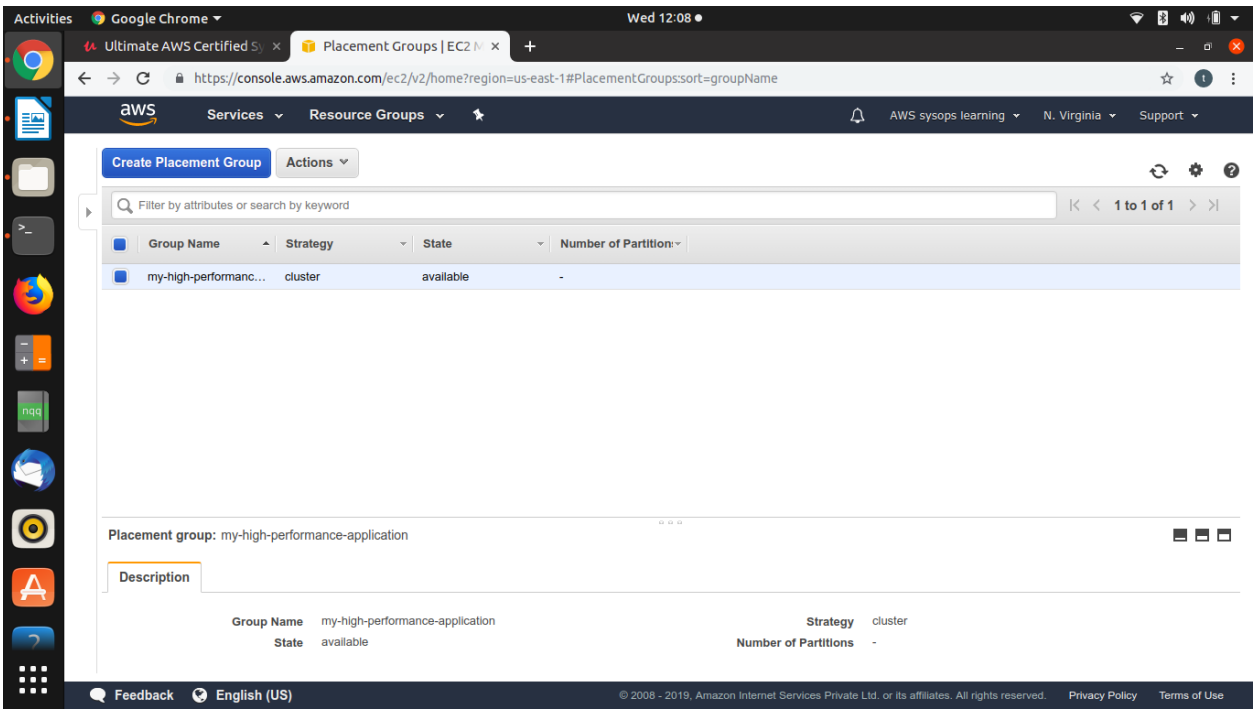
Activities
Google Chrome
Wed 12:08
Ultimate AWS Certified
Placement Groups | EC2
https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#PlacementGroups:sort=groupName
aws
Services
Resource Groups
AWS sysops learning
N. Virginia
Support
Create Placement Group
Actions
Filter by attributes or search by keyword
1 to 1 of 1
Group Name
Strategy
State
Number of Partitions
my-high-performanc...
cluster
available
-
Placement group: my-high-performance-application
Description
Group Name my-high-performance-application
State available
Strategy cluster
Number of Partitions -
Feedback
English (US)
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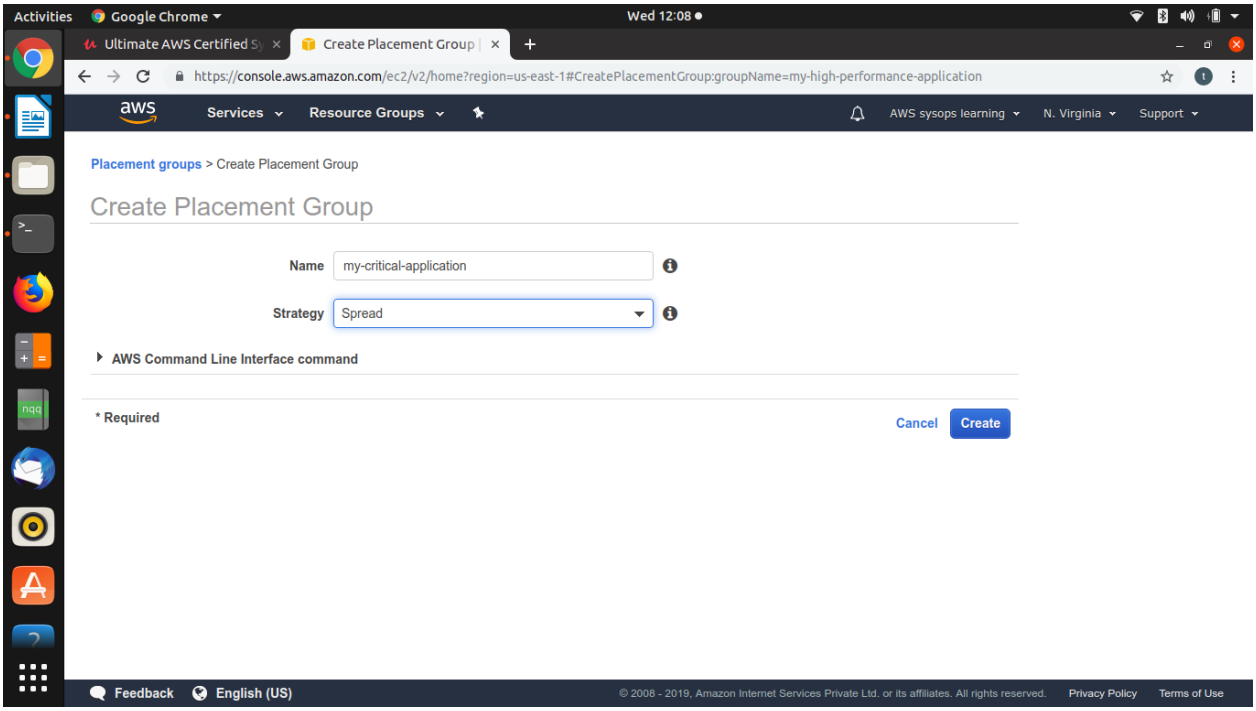
Activities
Google Chrome
Wed 12:08
Ultimate AWS Certified
Create Placement Group
https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#CreatePlacementGroup:groupName=my-high-performance-application
aws
Services
Resource Groups
AWS sysops learning
N. Virginia
Support
Placement groups > Create Placement Group
Create Placement Group
Name
my-critical-application
Strategy
Spread
AWS Command Line Interface command
* Required
Cancel
Create
Feedback
English (US)
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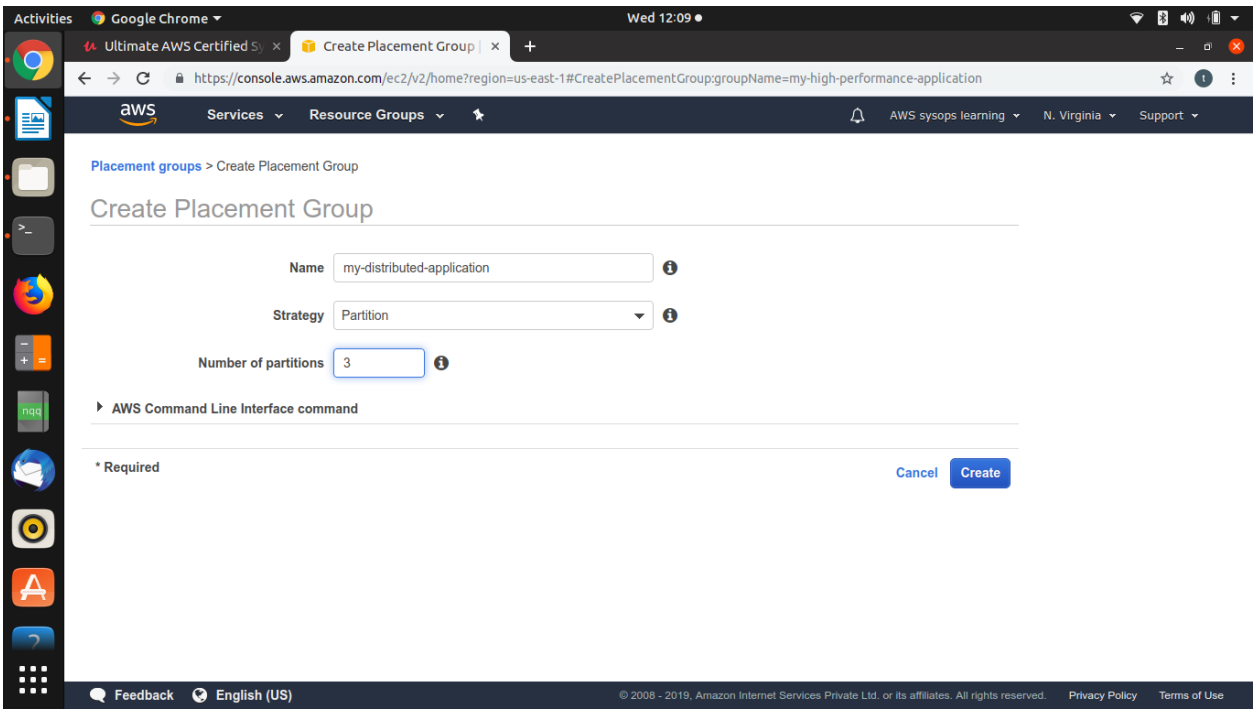
Activities
Google Chrome
Wed 12:09
Ultimate AWS Certified Sy
Create Placement Group
https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#CreatePlacementGroup:groupName=my-high-performance-application
aws
Services
Resource Groups
AWS sysops learning
N. Virginia
Support
Placement groups > Create Placement Group
Create Placement Group
Name
my-distributed-application
Strategy
Partition
Number of partitions
3
AWS Command Line Interface command
* Required
Cancel
Create
Feedback
English (US)
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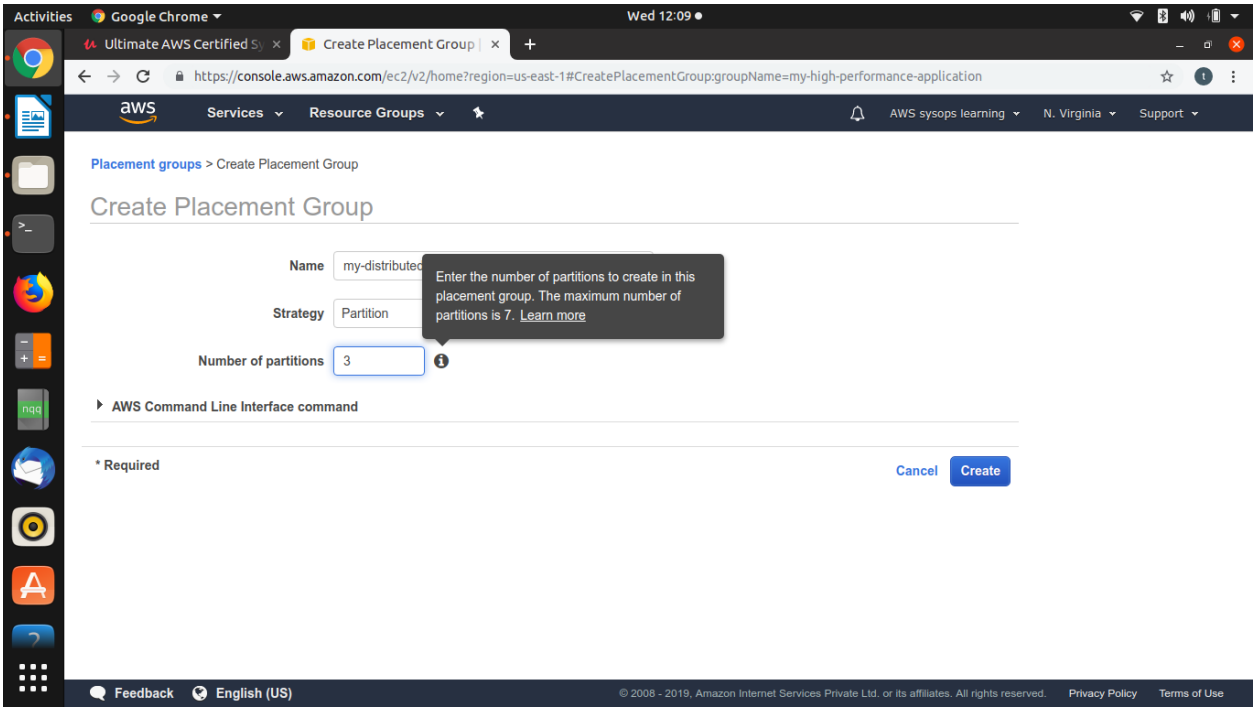
Activities
Google Chrome
Wed 12:09
Ultimate AWS Certified Sy
Create Placement Group
https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#CreatePlacementGroup:groupName=my-high-performance-application
aws
Services
Resource Groups
AWS sysops learning
N. Virginia
Support
Placement groups > Create Placement Group
Create Placement Group
Name
my-distributed
Enter the number of partitions to create in this placement group. The maximum number of partitions is 7. Learn more
Strategy
Partition
Number of partitions
3
AWS Command Line Interface command
* Required
Cancel
Create
Feedback
English (US)
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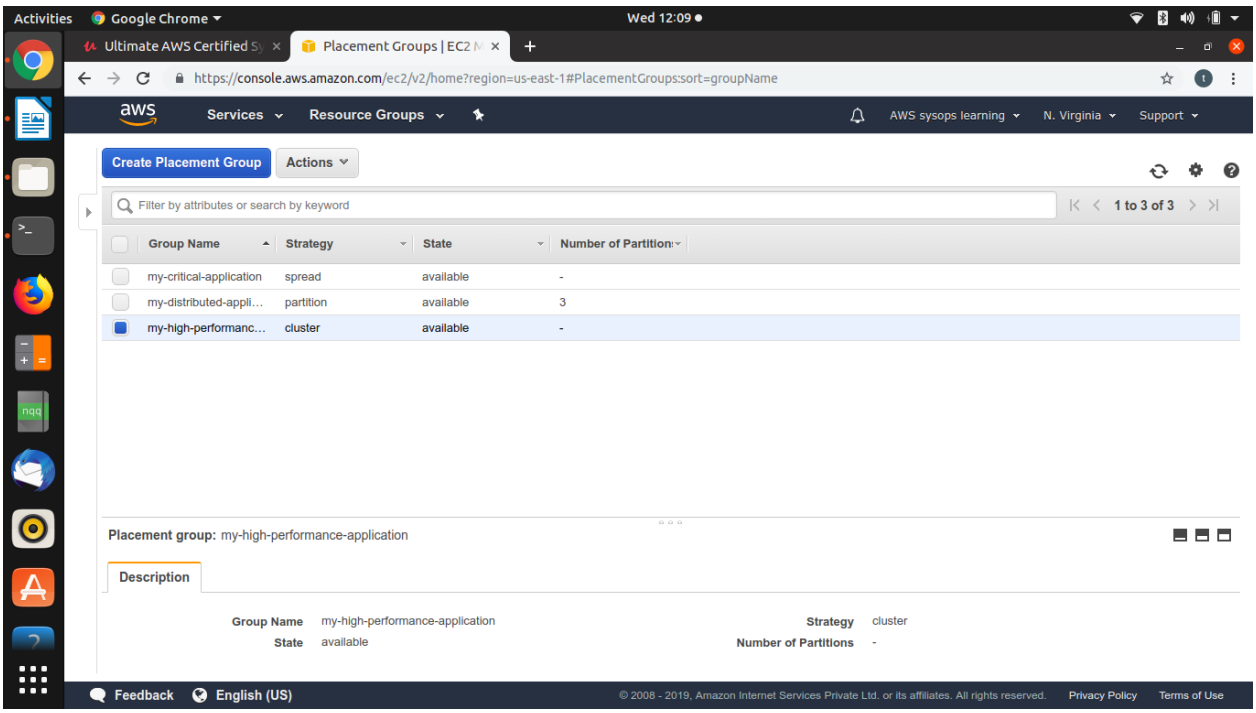
Activities
Google Chrome
Wed 12:09
Ultimate AWS Certified
Placement Groups | EC2
https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#PlacementGroups:sort=groupName
Services
Resource Groups
AWS sysops learning
N. Virginia
Support
Create Placement Group
Actions
Filter by attributes or search by keyword
1 to 3 of 3
Group Name
Strategy
State
Number of Partitions
my-critical-application
spread
available
-
my-distributed-appli…
partition
available
3
my-high-performanc…
cluster
available
-
Placement group: my-high-performance-application
Description
Group Name
my-high-performance-application
State
available
Strategy
cluster
Number of Partitions
-
Feedback
English (US)
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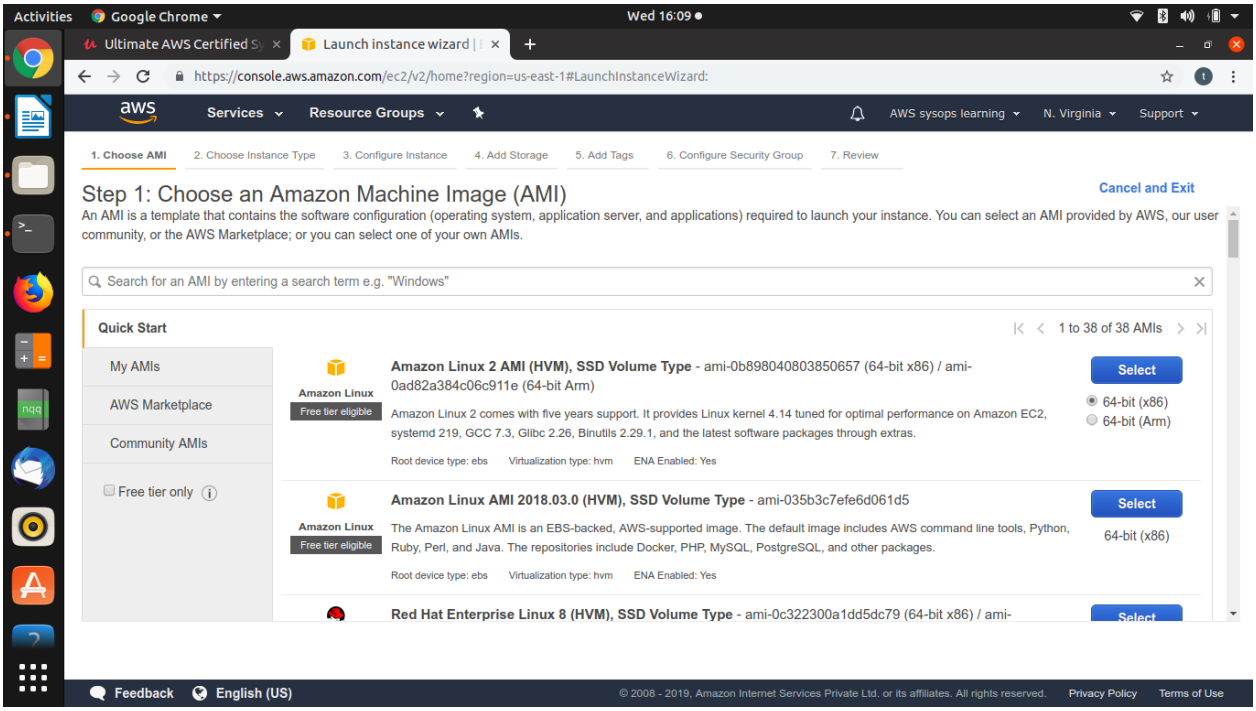
Activities
Google Chrome
Wed 16:09
Ultimate AWS Certified
Launch instance wizard
https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
Services
Resource Groups
AWS sysops learning
N. Virginia
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 1: Choose an Amazon Machine Image (AMI)
Cancel and Exit
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.
Search for an AMI by entering a search term e.g. "Windows"
Quick Start
1 to 38 of 38 AMIs
My AMIs
AWS Marketplace
Community AMIs
Free tier only
Amazon Linux
Free tier eligible
Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0b898040803850657 (64-bit x86) / ami-0ad82a384c06c911e (64-bit Arm)
Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras.
Root device type: ebs
Virtualization type: hvm
ENA Enabled: Yes
Select
64-bit (x86)
64-bit (Arm)
Amazon Linux
Free tier eligible
Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-035b3c7efe6d061d5
The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.
Root device type: ebs
Virtualization type: hvm
ENA Enabled: Yes
Select
64-bit (x86)
Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-0c322300a1dd5dc79 (64-bit x86) / ami-
Select
Feedback
English (US)
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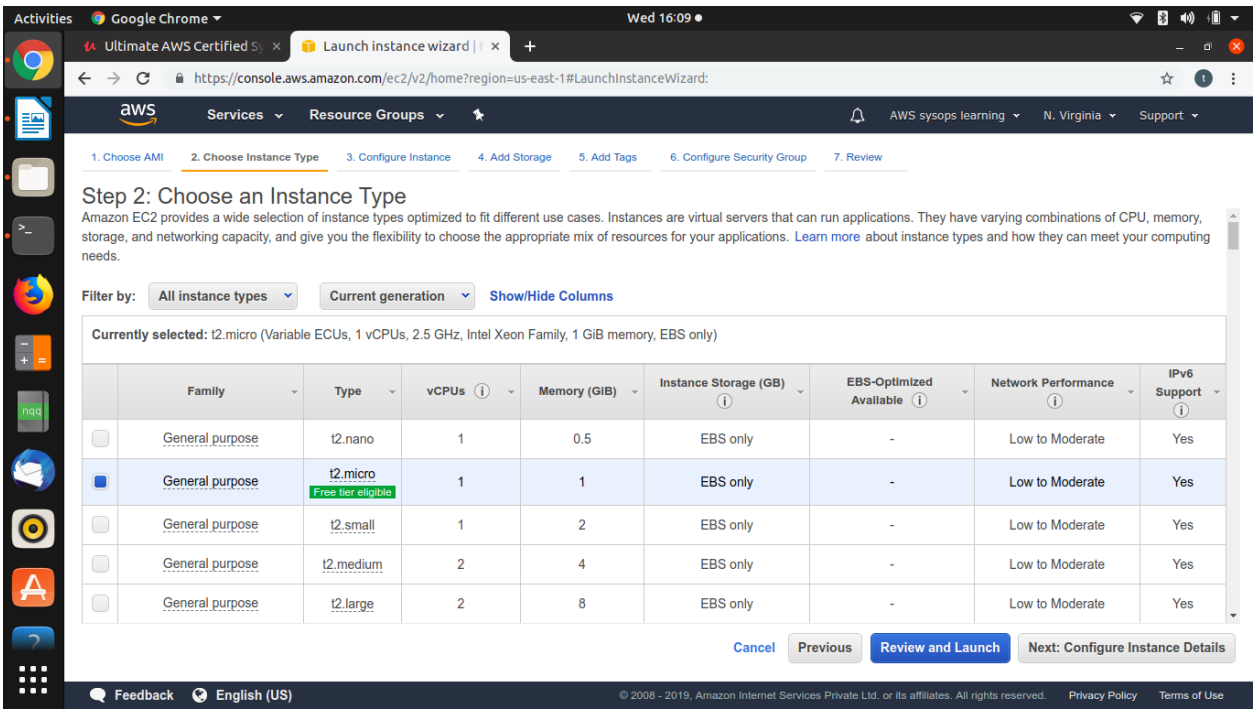
Activities
Google Chrome
Wed 16:09
Ultimate AWS Certified Sy
Launch instance wizard
https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
Services
Resource Groups
AWS sysops learning
N. Virginia
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 2: Choose an Instance Type
Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.
Filter by:
All instance types
Current generation
Show/Hide Columns
Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)
Family
Type
vCPUs
Memory (GiB)
Instance Storage (GB)
EBS-Optimized Available
Network Performance
IPv6 Support
General purpose
t2.nano
1
0.5
EBS only
-
Low to Moderate
Yes
General purpose
t2.micro
Free tier eligible
1
1
EBS only
-
Low to Moderate
Yes
General purpose
t2.small
1
2
EBS only
-
Low to Moderate
Yes
General purpose
t2.medium
2
4
EBS only
-
Low to Moderate
Yes
General purpose
t2.large
2
8
EBS only
-
Low to Moderate
Yes
Cancel
Previous
Review and Launch
Next: Configure Instance Details
Feedback
English (US)
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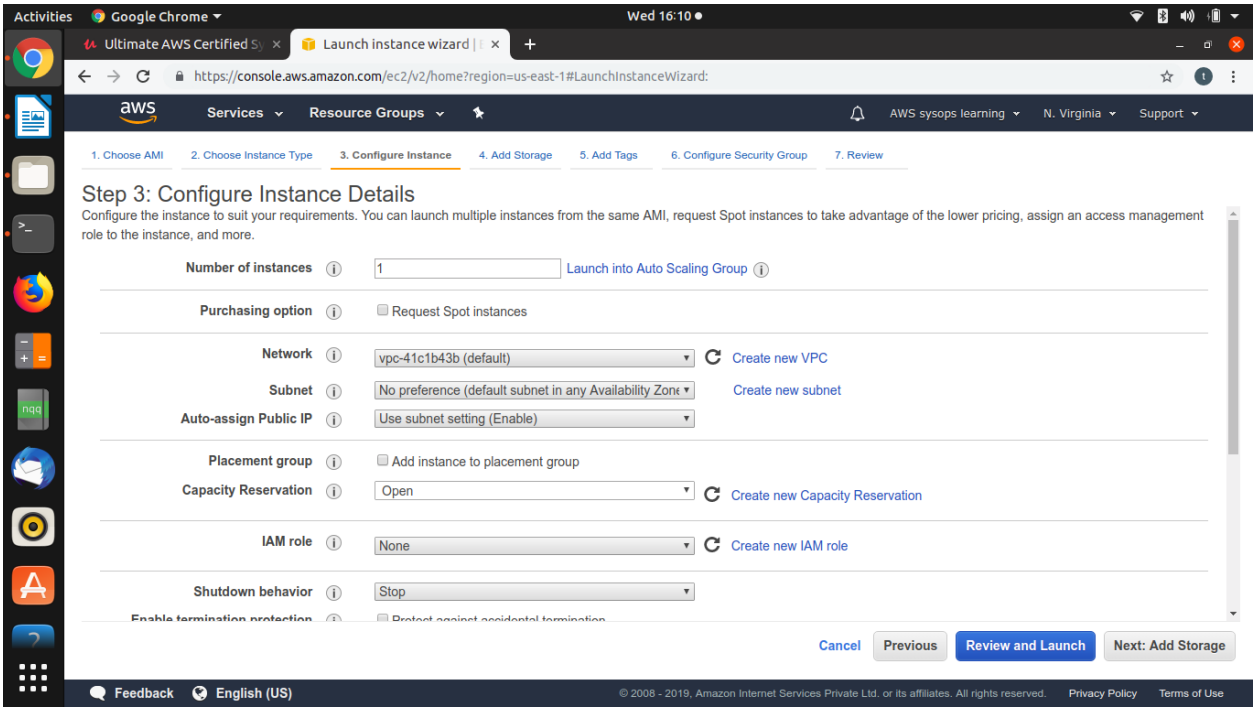
Activities
Google Chrome
Wed 16:10
Ultimate AWS Certified Sy
Launch instance wizard
https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
Services
Resource Groups
AWS sysops learning
N. Virginia
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
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-41c1b43b (default)
Create new VPC
Subnet
No preference (default subnet in any Availability Zone
Create new subnet
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
Shutdown behavior
Stop
Cancel
Previous
Review and Launch
Next: Add Storage
Feedback
English (US)
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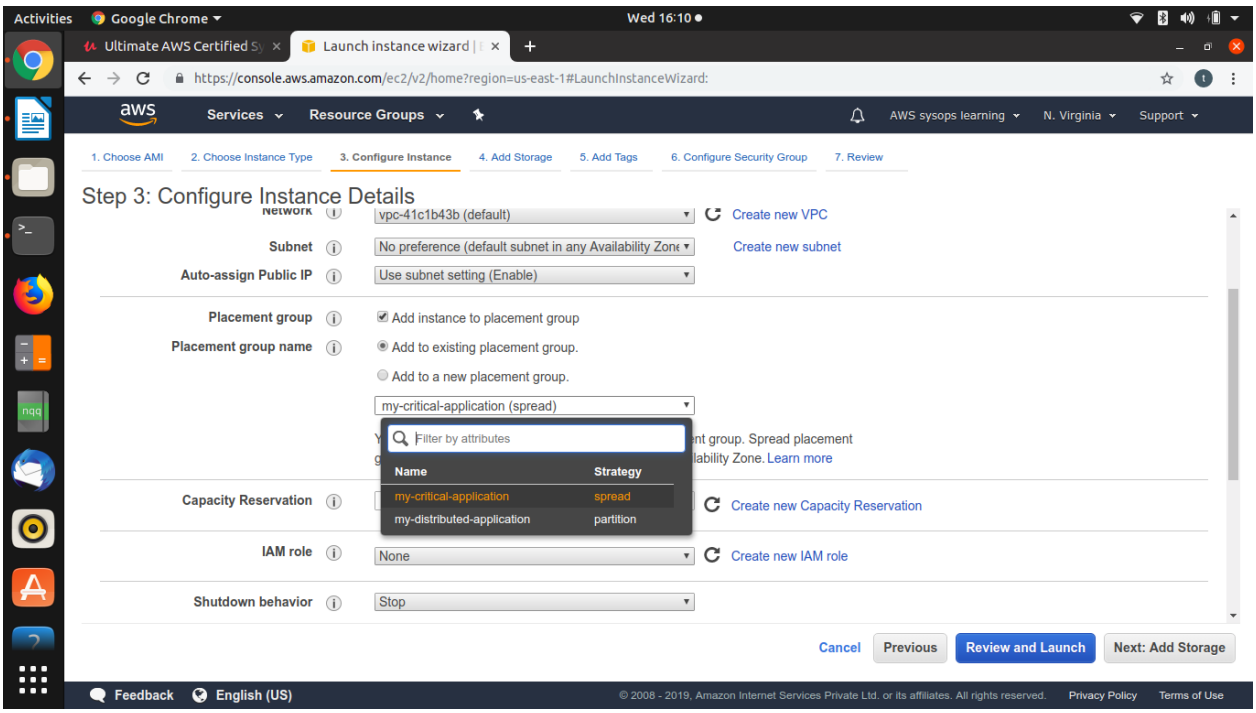
Activities
Google Chrome
Wed 16:10
Ultimate AWS Certified
Launch instance wizard
https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
Services
Resource Groups
AWS sysops learning
N. Virginia
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 3: Configure Instance Details
Network
vpc-41c1b43b (default)
Create new VPC
Subnet
No preference (default subnet in any Availability Zone
Create new subnet
Auto-assign Public IP
Use subnet setting (Enable)
Placement group
Add instance to placement group
Placement group name
Add to existing placement group.
Add to a new placement group.
my-critical-application (spread)
Filter by attributes
Name
Strategy
my-critical-application
spread
my-distributed-application
partition
Learn more
Capacity Reservation
Create new Capacity Reservation
IAM role
None
Create new IAM role
Shutdown behavior
Stop
Cancel
Previous
Review and Launch
Next: Add Storage
Feedback
English (US)
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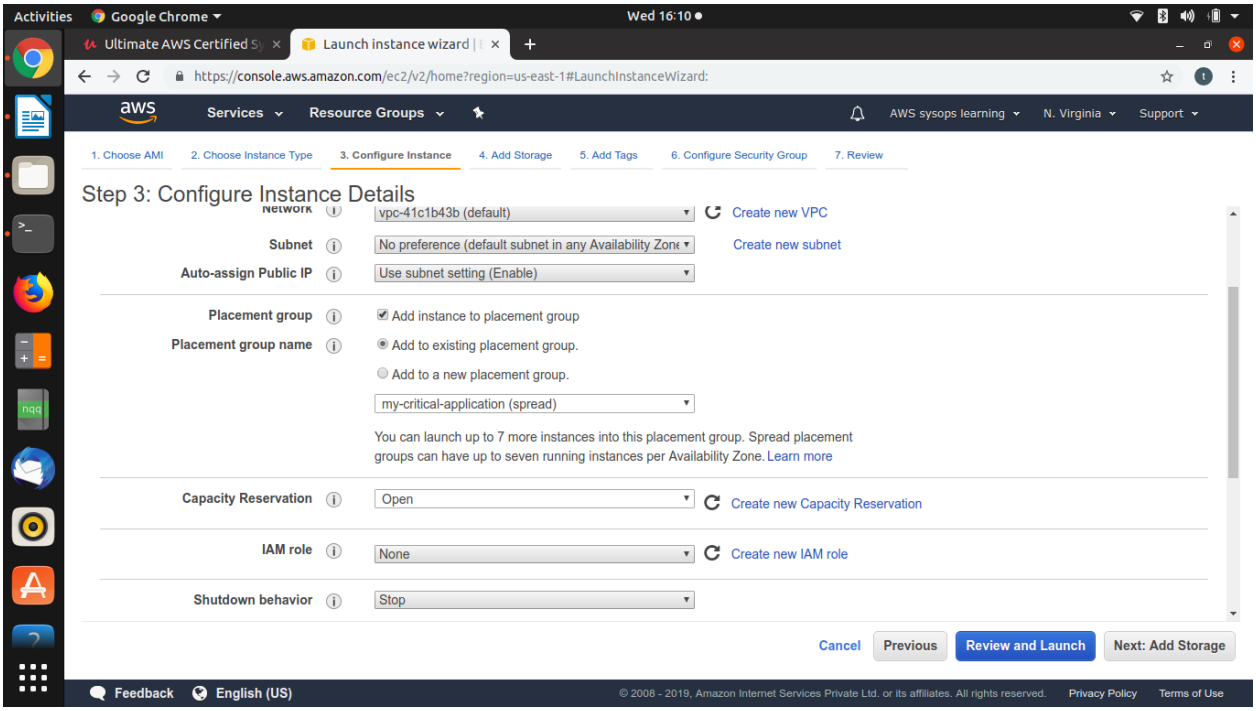
Activities
Google Chrome
Wed 16:10
Ultimate AWS Certified
Launch instance wizard
https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:
Services
Resource Groups
AWS sysops learning
N. Virginia
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Add Tags
6. Configure Security Group
7. Review
Step 3: Configure Instance Details
Network
vpc-41c1b43b (default)
Create new VPC
Subnet
No preference (default subnet in any Availability Zone
Create new subnet
Auto-assign Public IP
Use subnet setting (Enable)
Placement group
Add instance to placement group
Placement group name
Add to existing placement group.
Add to a new placement group.
my-critical-application (spread)
You can launch up to 7 more instances into this placement group. Spread placement groups can have up to seven running instances per Availability Zone. Learn more
Capacity Reservation
Open
Create new Capacity Reservation
IAM role
None
Create new IAM role
Shutdown behavior
Stop
Cancel
Previous
Review and Launch
Next: Add Storage
Feedback
English (US)
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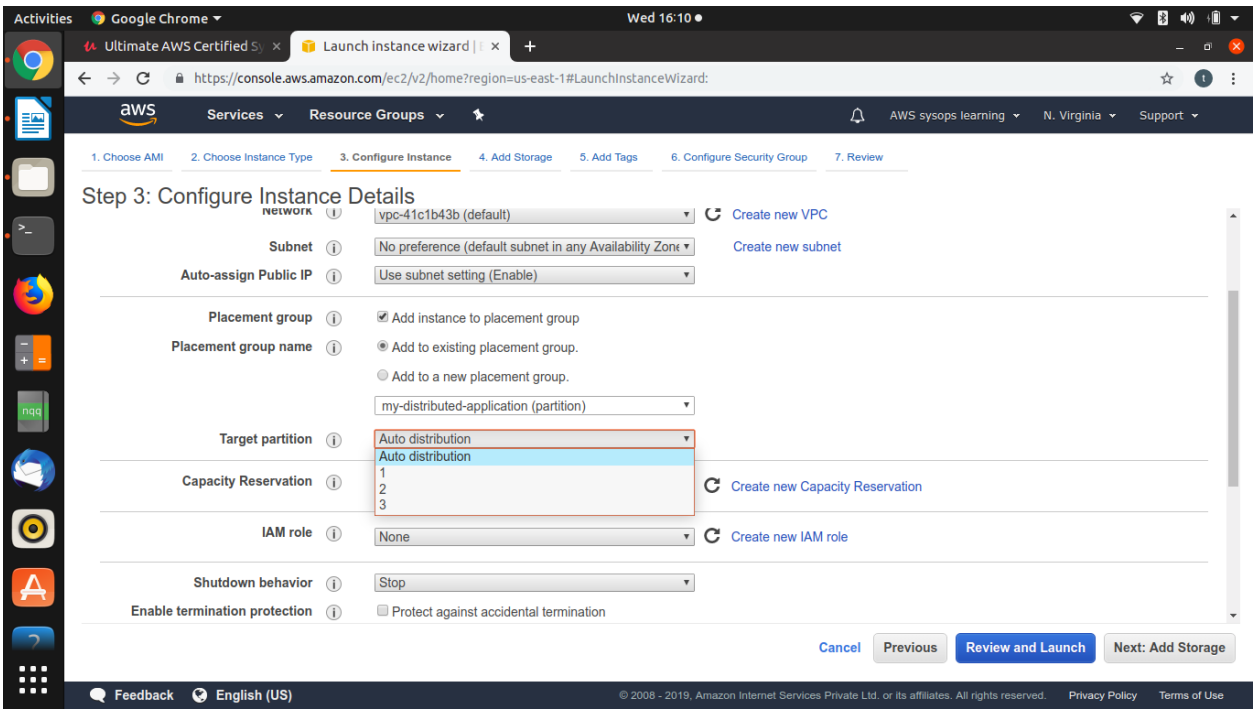
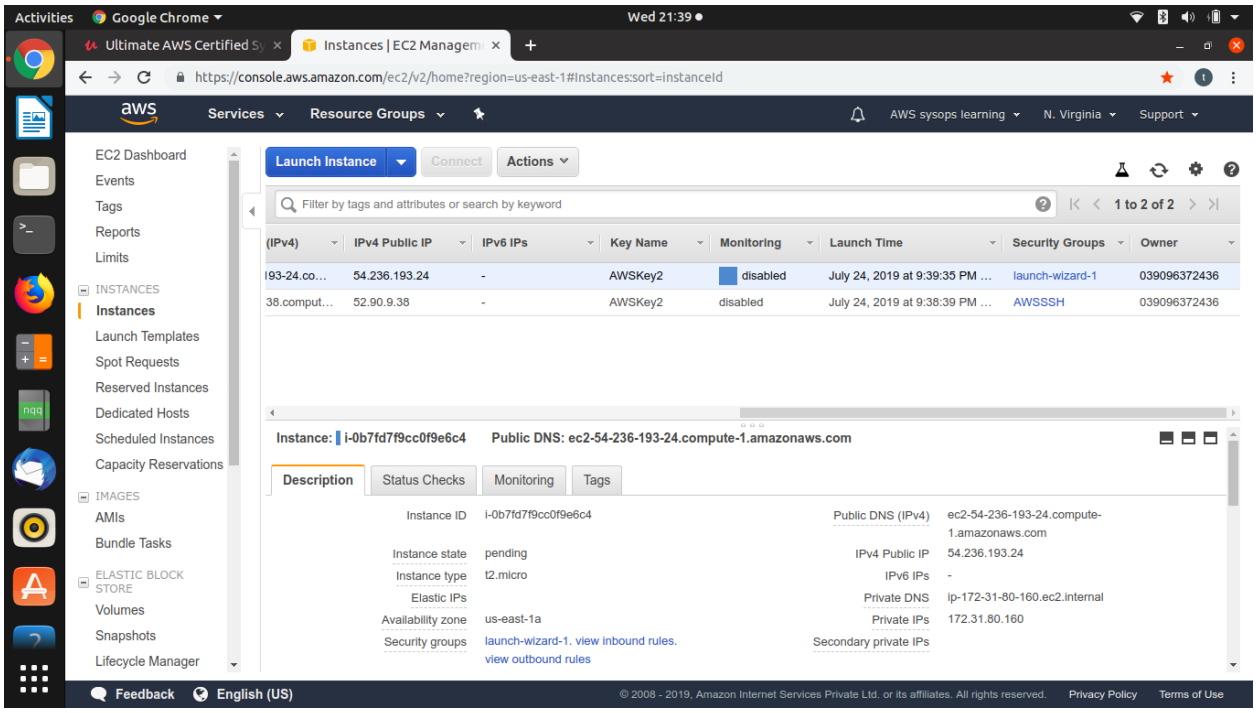
4. EC2 Shutdown Behavior & Termination Protection