AWS Solutions Architect Certification Training

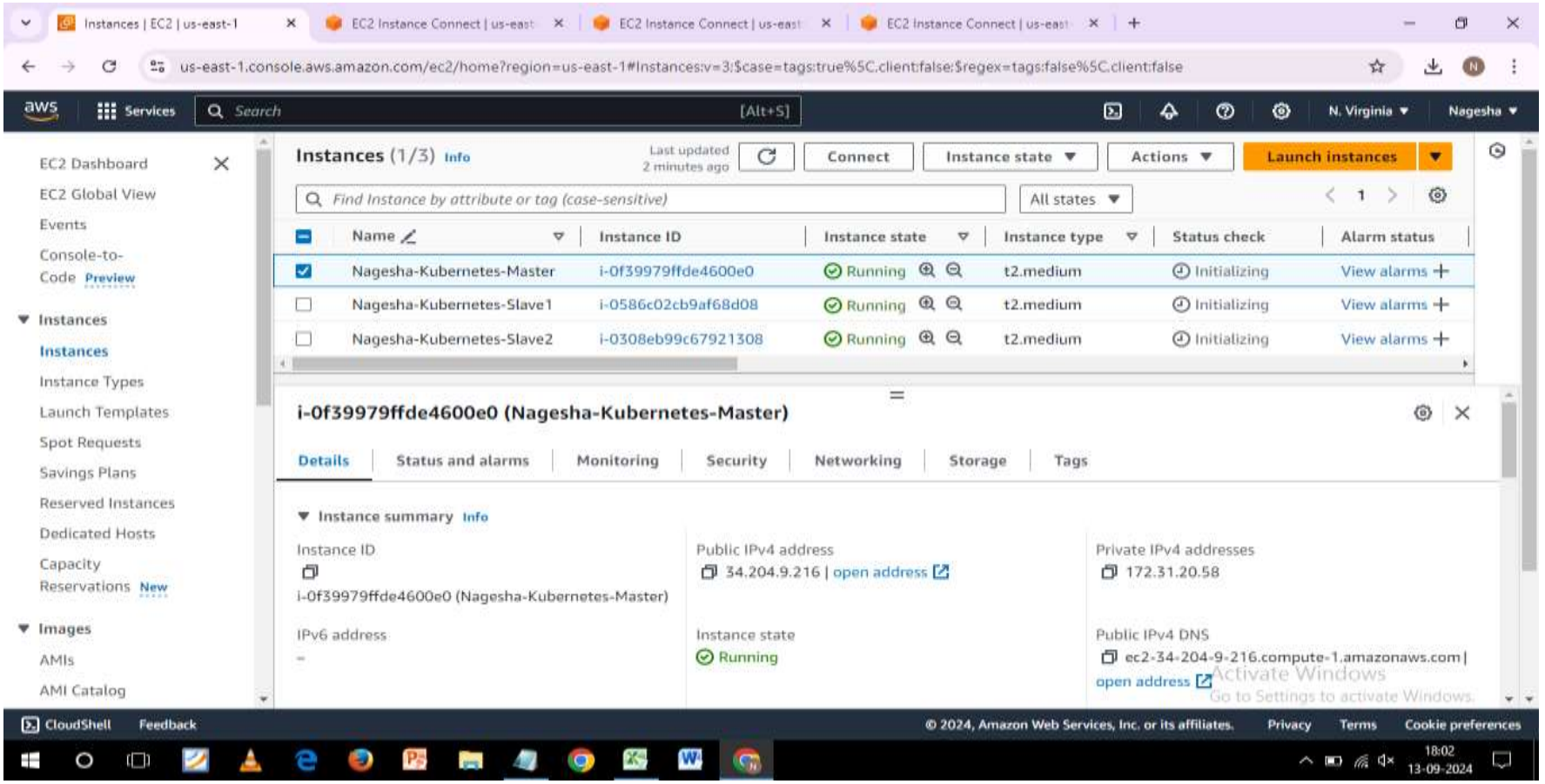
support@intellipaat.com - +91-7022374614 - US: 1-800-216-8930 (Toll Free)

DevOps-Module7-Kubernetes-Assignment-5 COMPLETED by Nagesha KS

Please check the following screenshots for each question.

Tasks To Be Performed:

1. Use the previous deployment
2. Deploy an NGINX deployment of 3 replicas
3. Create an NGINX service of type ClusterIP
4. Create an ingress service/ Apache to Apache service/ NGINX to NGINX service


Instances | EC2 | us-east-1
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
AMI Catalog
Instances (1/3) Info
Last updated 2 minutes ago
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Nagesha-Kubernetes-Master
i-0f39979ffde4600e0
Running
t2.medium
Initializing
View alarms
Nagesha-Kubernetes-Slave1
i-0586c02cb9af68d08
Running
t2.medium
Initializing
View alarms
Nagesha-Kubernetes-Slave2
i-0308eb99c67921308
Running
t2.medium
Initializing
View alarms
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
IPv6 address
-
Public IPv4 address
34.204.9.216 | open address
Instance state
Running
Private IPv4 addresses
172.31.20.58
Public IPv4 DNS
ec2-34-204-9-216.compute-1.amazonaws.com | open address
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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18:02
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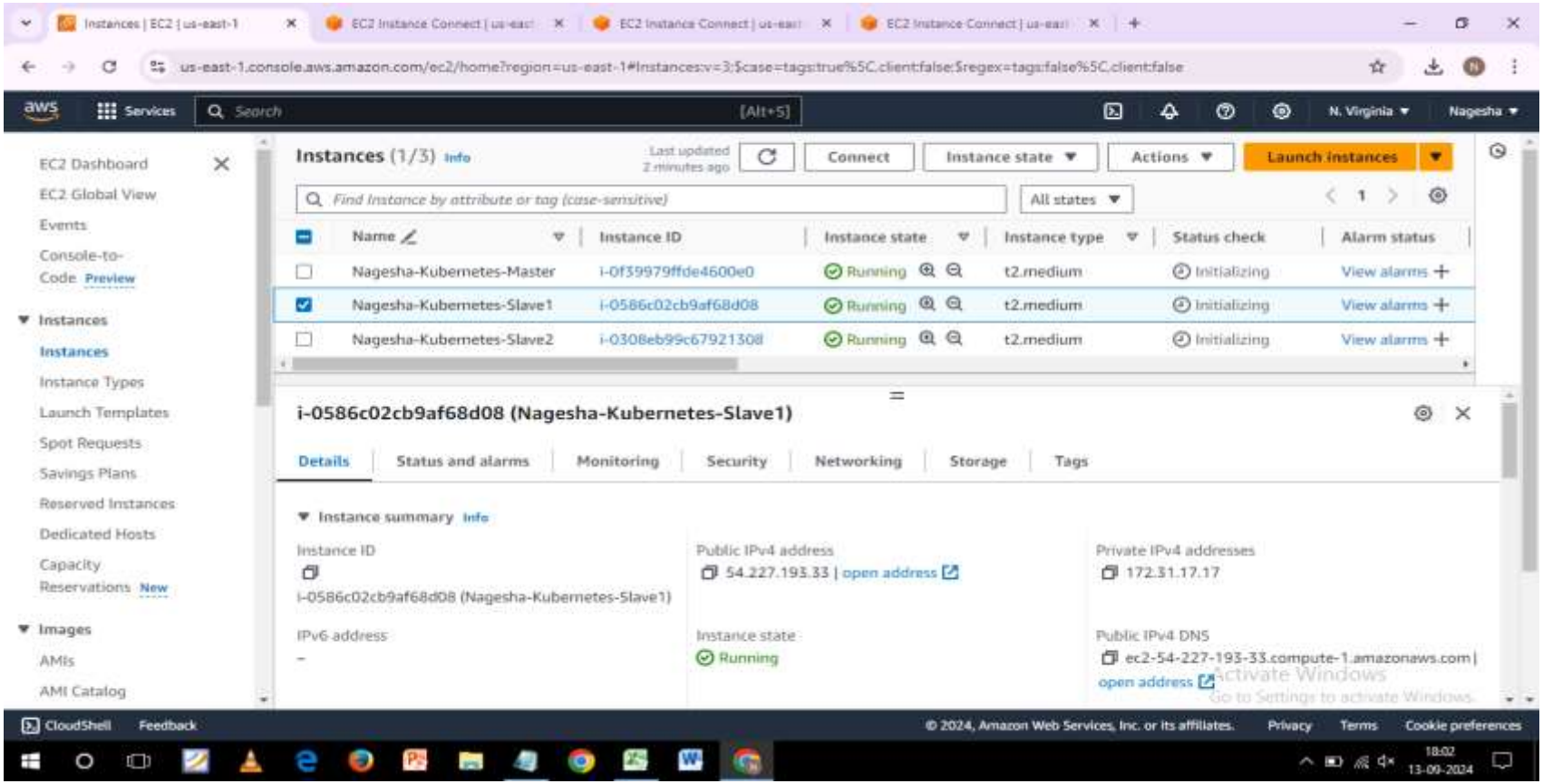
Instances | EC2 | us-east-1
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false
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i-0586c02cb9af68d08
Running
t2.medium
Initializing
View alarms
Nagesha-Kubernetes-Slave2
i-0308eb99c67921308
Running
t2.medium
Initializing
View alarms
i-0586c02cb9af68d08 (Nagesha-Kubernetes-Slave1)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-0586c02cb9af68d08 (Nagesha-Kubernetes-Slave1)
IPv6 address
-
Public IPv4 address
54.227.193.33 | open address
Instance state
Running
Private IPv4 addresses
172.31.17.17
Public IPv4 DNS
ec2-54-227-193-33.compute-1.amazonaws.com | open address
Activate Windows
Go to Settings to activate Windows.
CloudShell
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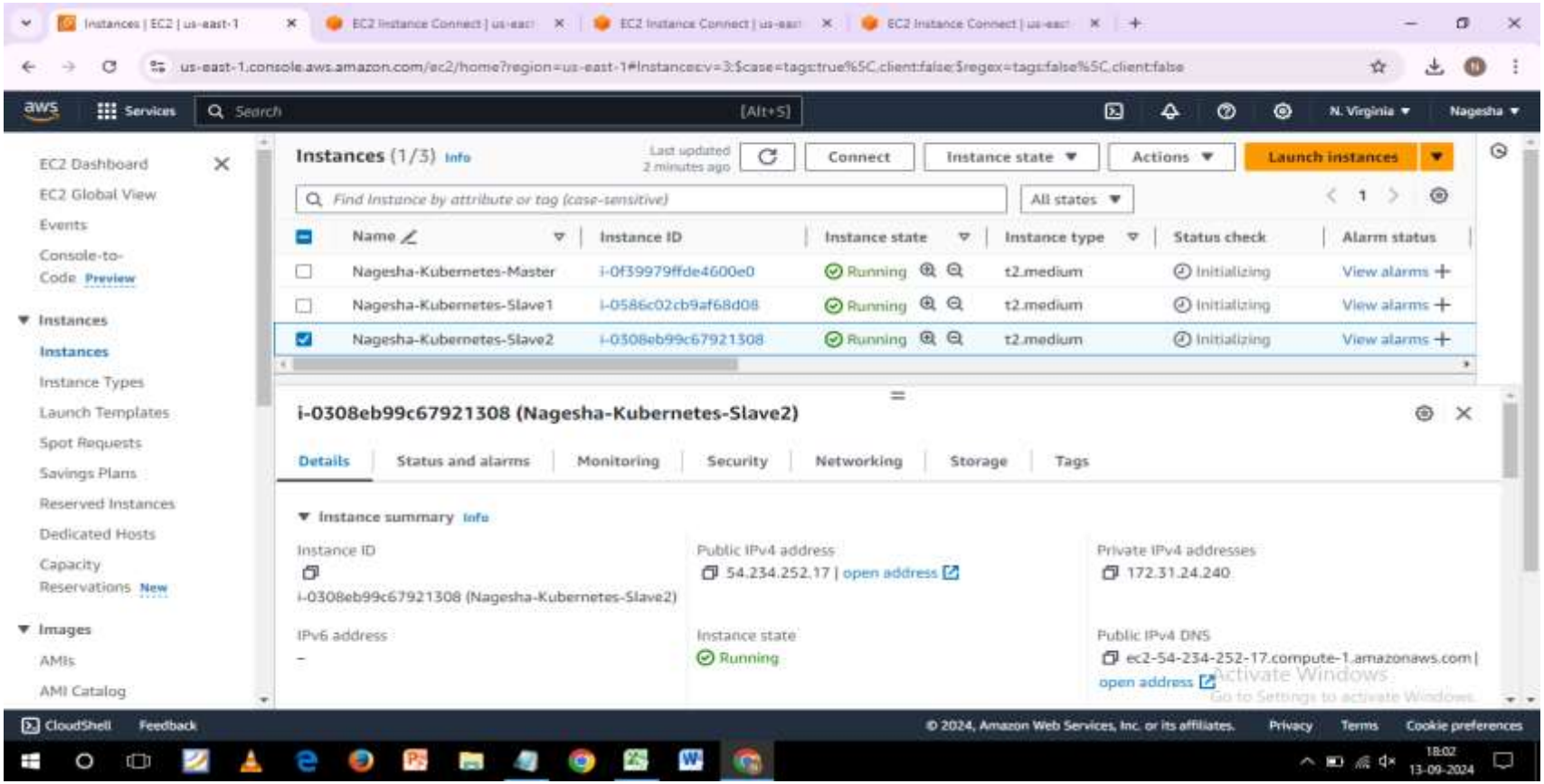
Instances | EC2 | us-east-1
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false
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i-0586c02cb9af68d08
Running
t2.medium
Initializing
View alarms
Nagesha-Kubernetes-Slave2
i-0308eb99c67921308
Running
t2.medium
Initializing
View alarms
i-0308eb99c67921308 (Nagesha-Kubernetes-Slave2)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-0308eb99c67921308 (Nagesha-Kubernetes-Slave2)
Public IPv4 address
54.234.252.17 | open address
Private IPv4 addresses
172.31.24.240
IPv6 address
-
Instance state
Running
Public IPv4 DNS
ec2-54-234-252-17.compute-1.amazonaws.com | open address
Activate Windows
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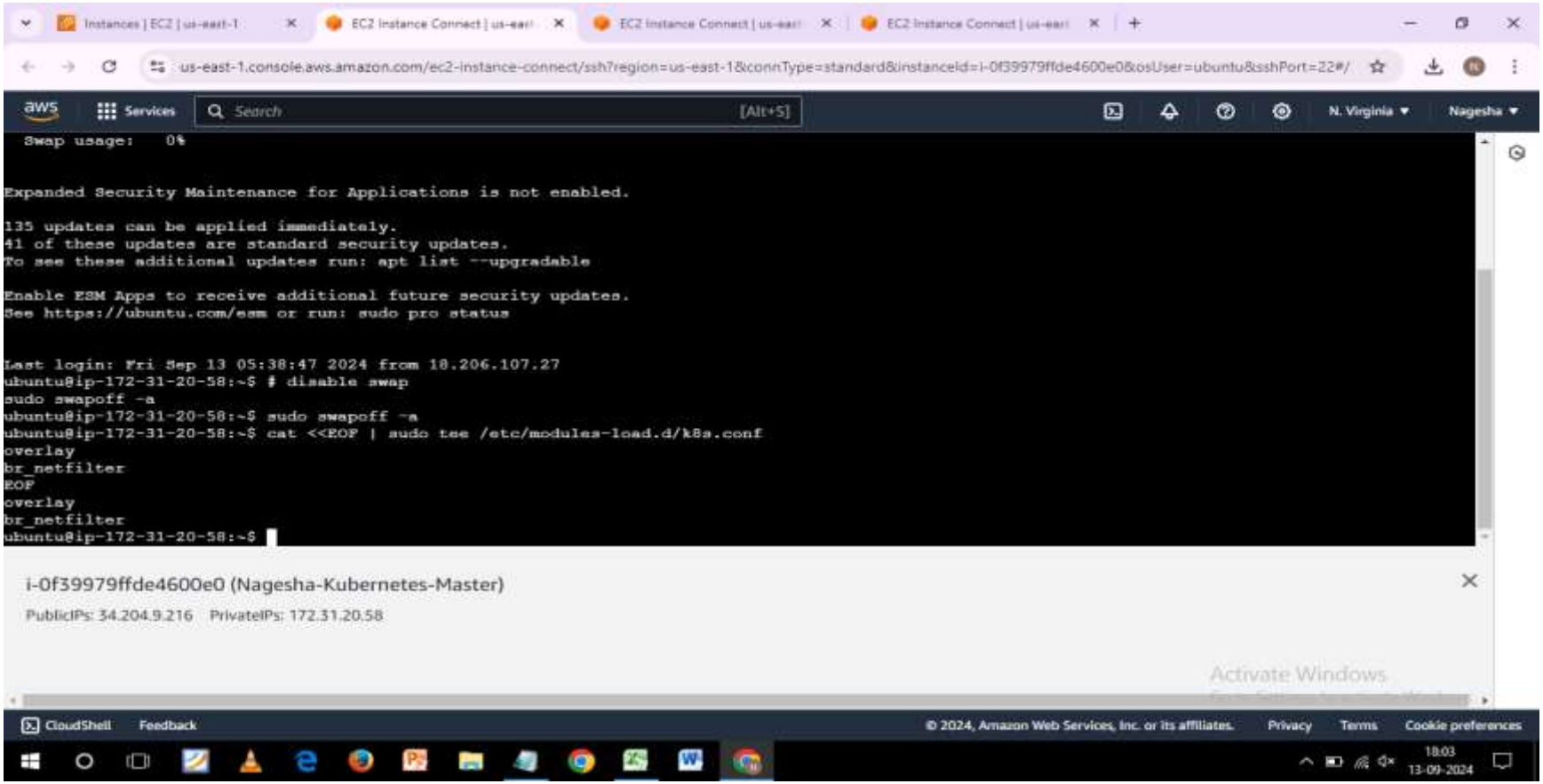
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f39979ffde4600e0&osUser=ubuntu&sshPort=22#/
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
135 updates can be applied immediately.
41 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
Last login: Fri Sep 13 05:38:47 2024 from 18.206.107.27
ubuntu@ip-172-31-20-58:~$ # disable swap
sudo swapoff -a
ubuntu@ip-172-31-20-58:~$ sudo swapoff -a
ubuntu@ip-172-31-20-58:~$ cat <<EOF | sudo tee /etc/modules-load.d/k8s.conf
overlay
br_netfilter
EOF
overlay
br_netfilter
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
PublicIPs: 34.204.9.216 PrivateIPs: 172.31.20.58
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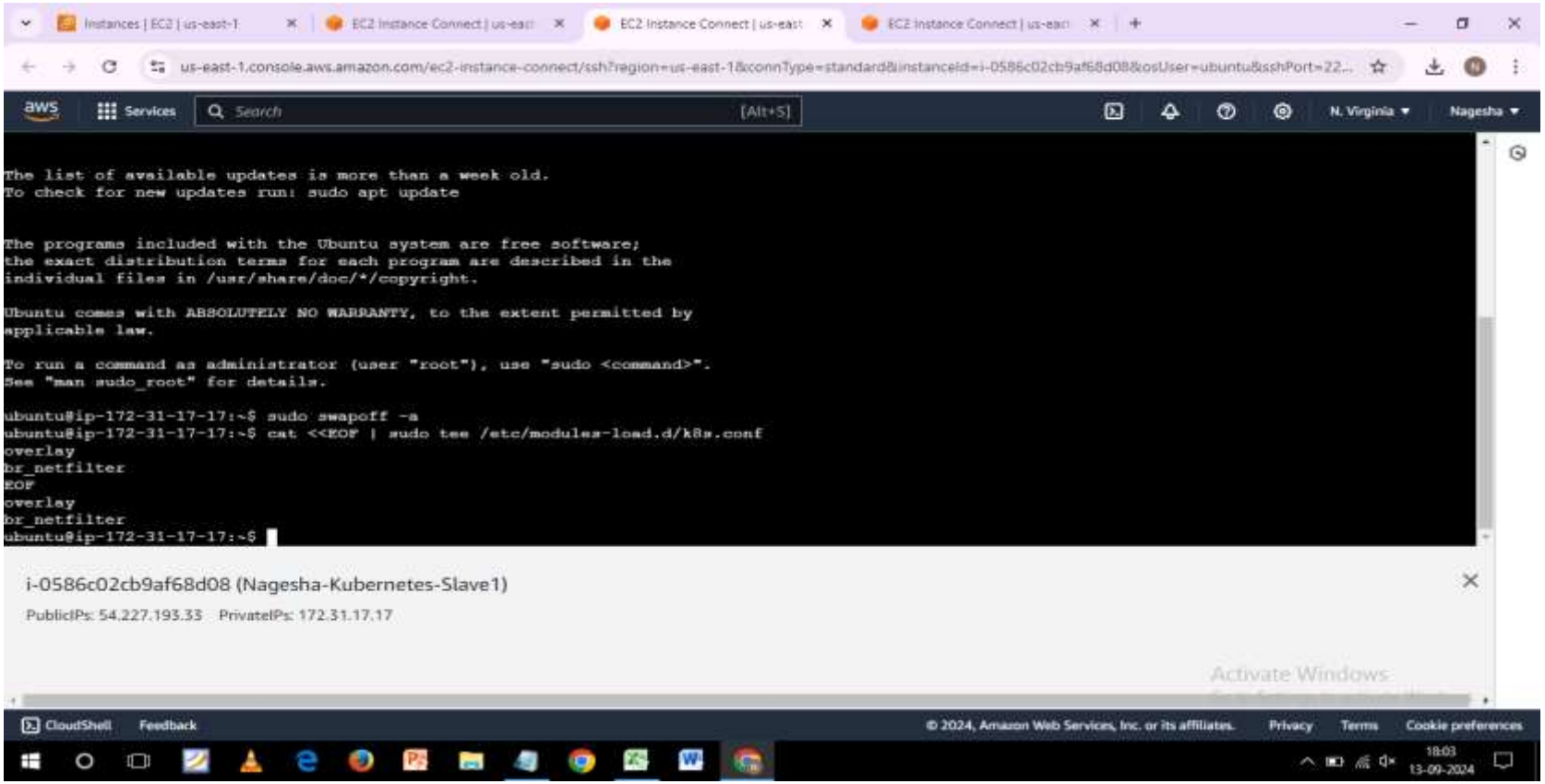
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0586c02cb9af68d08&osUser=ubuntu&sshPort=22...
aws
Services
Search
[Alt+S]
N. Virginia
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The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-17-17:~$ sudo swapoff -a
ubuntu@ip-172-31-17-17:~$ cat <<EOF | sudo tee /etc/modules-load.d/k8s.conf
overlay
br_netfilter
EOF
overlay
br_netfilter
ubuntu@ip-172-31-17-17:~$
i-0586c02cb9af68d08 (Nagesha-Kubernetes-Slave1)
PublicIPs: 54.227.193.33 PrivateIPs: 172.31.17.17
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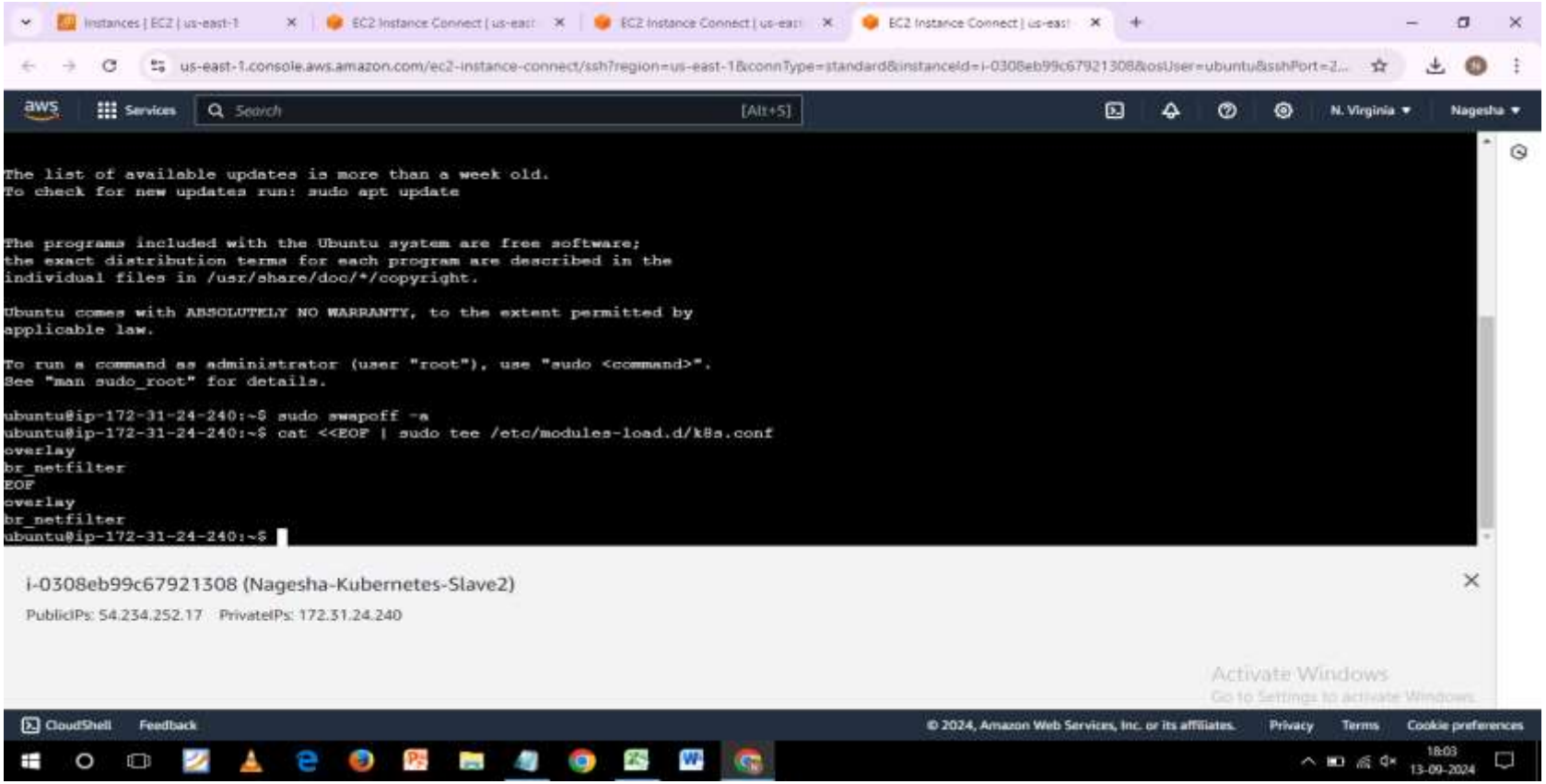
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0308eb99c67921308&osUser=ubuntu&sshPort=2...
aws
Services
Search
[Alt+S]
N. Virginia
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The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-24-240:~$ sudo swapoff -a
ubuntu@ip-172-31-24-240:~$ cat <<EOF | sudo tee /etc/modules-load.d/k8s.conf
overlay
br_netfilter
EOF
overlay
br_netfilter
ubuntu@ip-172-31-24-240:~$
i-0308eb99c67921308 (Nagesha-Kubernetes-Slave2)
PublicIPs: 54.234.252.17 PrivateIPs: 172.31.24.240
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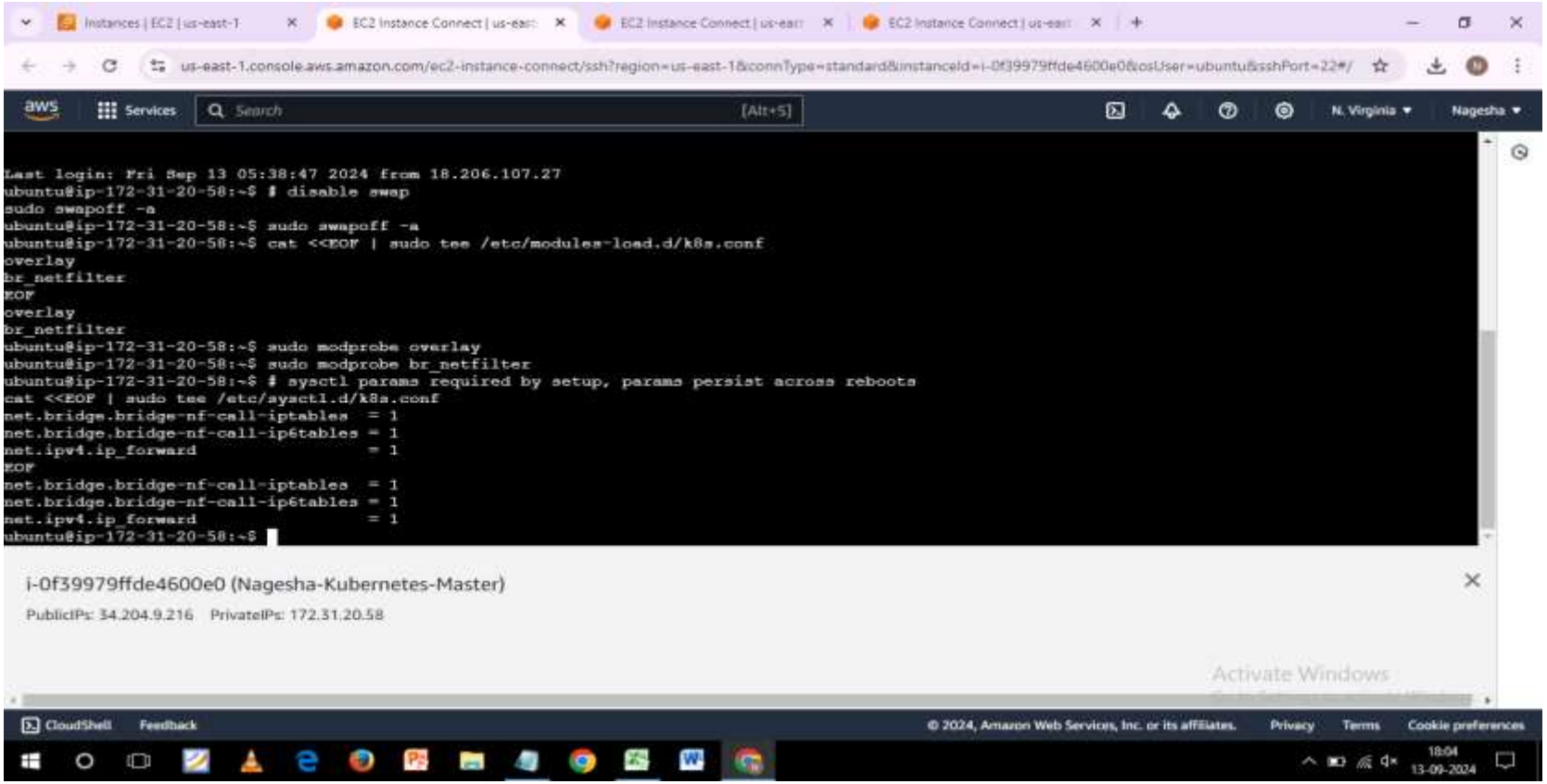
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-
EC2 Instance Connect | us-east-
EC2 Instance Connect | us-east-
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f39979ffde4600e0&osUser=ubuntu&sshPort=22#/
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
Last login: Fri Sep 13 05:38:47 2024 from 18.206.107.27
ubuntu@ip-172-31-20-58:~$ # disable swap
sudo swapoff -a
ubuntu@ip-172-31-20-58:~$ sudo swapoff -a
ubuntu@ip-172-31-20-58:~$ cat <<EOF | sudo tee /etc/modules-load.d/k8s.conf
overlay
br_netfilter
EOF
overlay
br_netfilter
ubuntu@ip-172-31-20-58:~$ sudo modprobe overlay
ubuntu@ip-172-31-20-58:~$ sudo modprobe br_netfilter
ubuntu@ip-172-31-20-58:~$ # sysctl params required by setup, params persist across reboots
cat <<EOF | sudo tee /etc/sysctl.d/k8s.conf
net.bridge.bridge-nf-call-iptables = 1
net.bridge.bridge-nf-call-ip6tables = 1
net.ipv4.ip_forward   = 1
EOF
net.bridge.bridge-nf-call-iptables = 1
net.bridge.bridge-nf-call-ip6tables = 1
net.ipv4.ip_forward   = 1
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
PublicIPs: 34.204.9.216 PrivateIPs: 172.31.20.58
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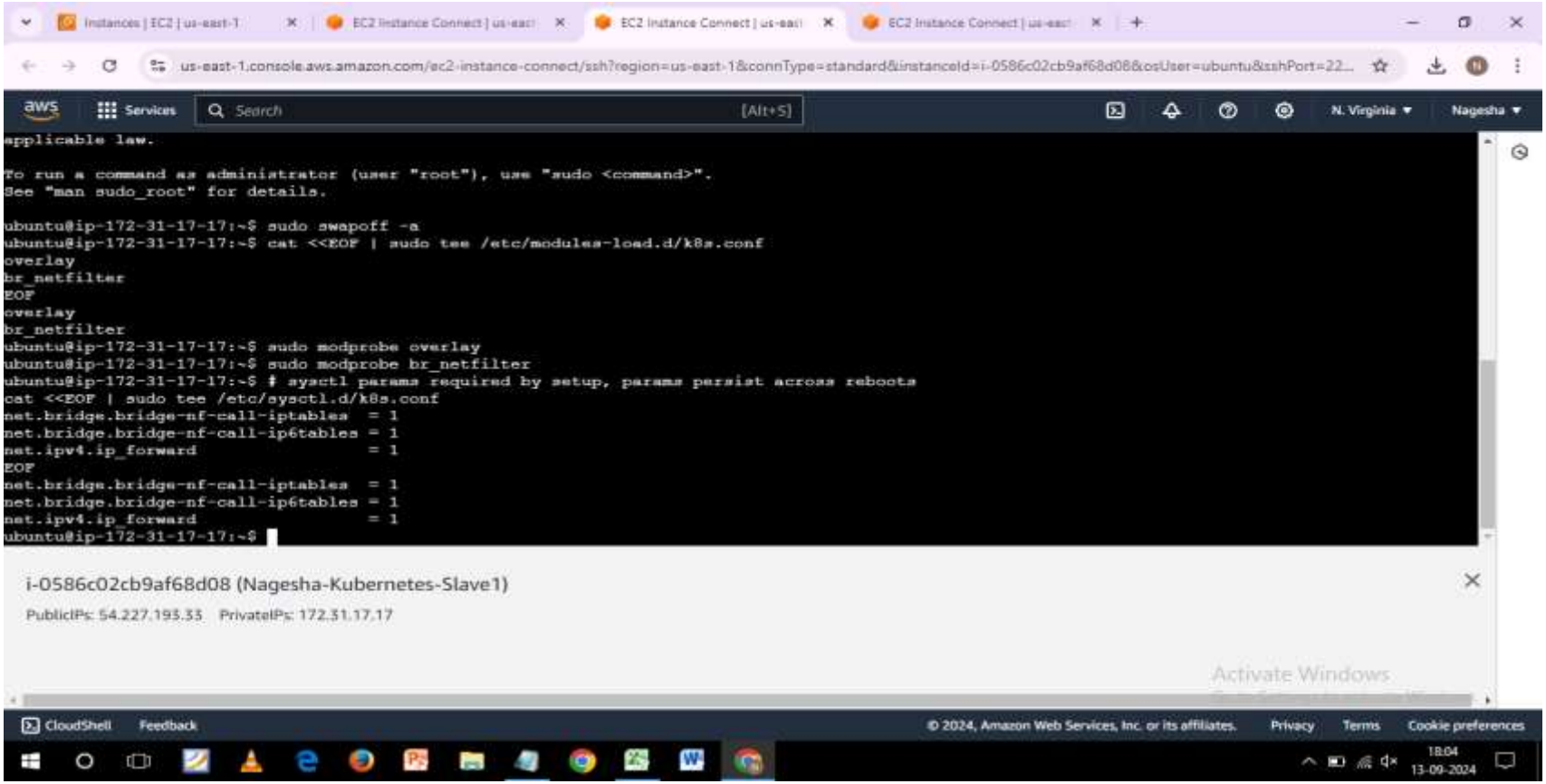
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-17-17:~$ sudo swapoff -a
ubuntu@ip-172-31-17-17:~$ cat <<EOF | sudo tee /etc/modules-load.d/k8s.conf
overlay
br_netfilter
EOF
overlay
br_netfilter
ubuntu@ip-172-31-17-17:~$ sudo modprobe overlay
ubuntu@ip-172-31-17-17:~$ sudo modprobe br_netfilter
ubuntu@ip-172-31-17-17:~$ # sysctl params required by setup, params persist across reboots
cat <<EOF | sudo tee /etc/sysctl.d/k8s.conf
net.bridge.bridge-nf-call-iptables = 1
net.bridge.bridge-nf-call-ip6tables = 1
net.ipv4.ip_forward   = 1
EOF
net.bridge.bridge-nf-call-iptables = 1
net.bridge.bridge-nf-call-ip6tables = 1
net.ipv4.ip_forward   = 1
ubuntu@ip-172-31-17-17:~$
i-0586c02cb9af68d08 (Nagesha-Kubernetes-Slave1)
PublicIPs: 54.227.195.35 PrivateIPs: 172.31.17.17
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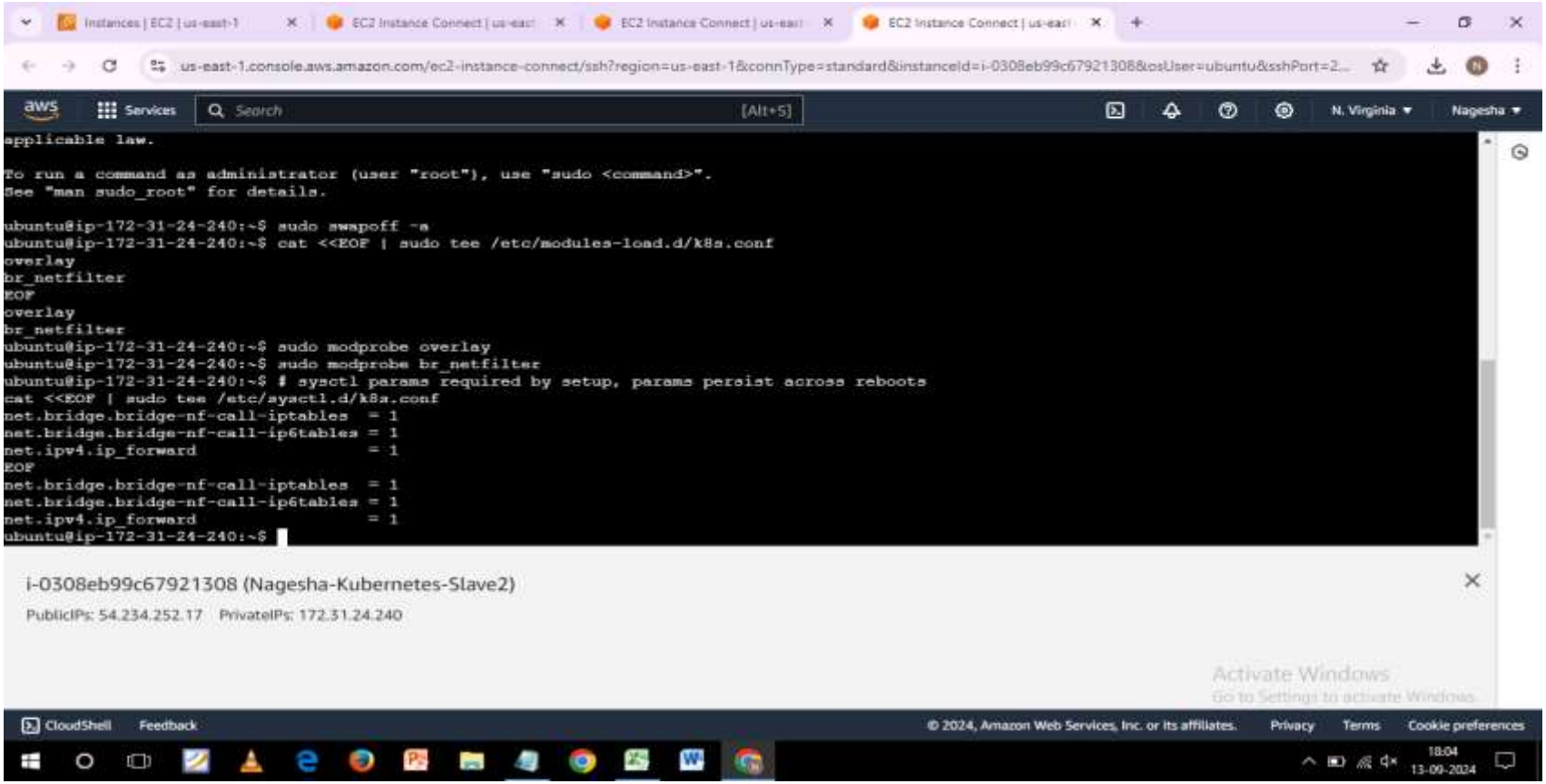
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0308eb99c67921308&osUser=ubuntu&sshPort=2...
aws
Services
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[Alt+S]
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applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-24-240:~$ sudo swapoff -a
ubuntu@ip-172-31-24-240:~$ cat <<EOF | sudo tee /etc/modules-load.d/k8s.conf
overlay
br_netfilter
EOF
overlay
br_netfilter
ubuntu@ip-172-31-24-240:~$ sudo modprobe overlay
ubuntu@ip-172-31-24-240:~$ sudo modprobe br_netfilter
ubuntu@ip-172-31-24-240:~$ # sysctl params required by setup, params persist across reboots
cat <<EOF | sudo tee /etc/sysctl.d/k8s.conf
net.bridge.bridge-nf-call-iptables = 1
net.bridge.bridge-nf-call-ip6tables = 1
net.ipv4.ip_forward   = 1
EOF
net.bridge.bridge-nf-call-iptables = 1
net.bridge.bridge-nf-call-ip6tables = 1
net.ipv4.ip_forward   = 1
ubuntu@ip-172-31-24-240:~$
i-0308eb99c67921308 (Nagesha-Kubernetes-Slave2)
PublicIPs: 54.234.252.17 PrivateIPs: 172.31.24.240
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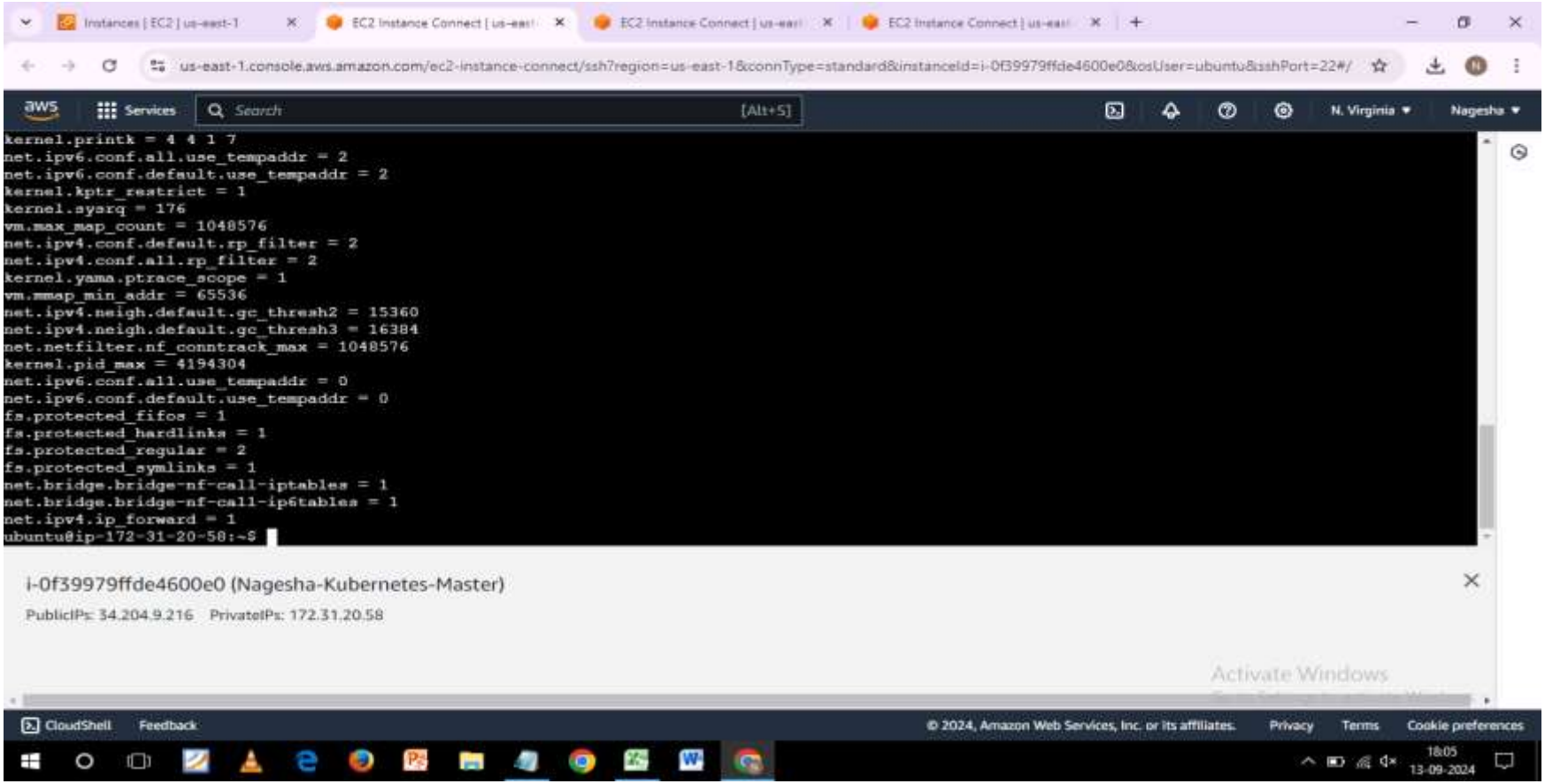
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f39979ffde4600e0&osUser=ubuntu&sshPort=22#/
aws
Services
Search
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N. Virginia
Nagesha
kernel.printk = 4 4 1 7
net.ipv6.conf.all.use_tempaddr = 2
net.ipv6.conf.default.use_tempaddr = 2
kernel.kptr_restrict = 1
kernel.sysrq = 176
vm.max_map_count = 1048576
net.ipv4.conf.default.rp_filter = 2
net.ipv4.conf.all.rp_filter = 2
kernel.yama.ptrace_scope = 1
vm.mmap_min_addr = 65536
net.ipv4.neigh.default.gc_thresh2 = 15360
net.ipv4.neigh.default.gc_thresh3 = 16384
net.netfilter.nf_conntrack_max = 1048576
kernel.pid_max = 4194304
net.ipv6.conf.all.use_tempaddr = 0
net.ipv6.conf.default.use_tempaddr = 0
fs.protected_fifos = 1
fs.protected_hardlinks = 1
fs.protected_regular = 2
fs.protected_symlinks = 1
net.bridge.bridge-nf-call-iptables = 1
net.bridge.bridge-nf-call-ip6tables = 1
net.ipv4.ip_forward = 1
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
PublicIPs: 34.204.9.216 PrivateIPs: 172.31.20.58
Activate Windows
CloudShell
Feedback
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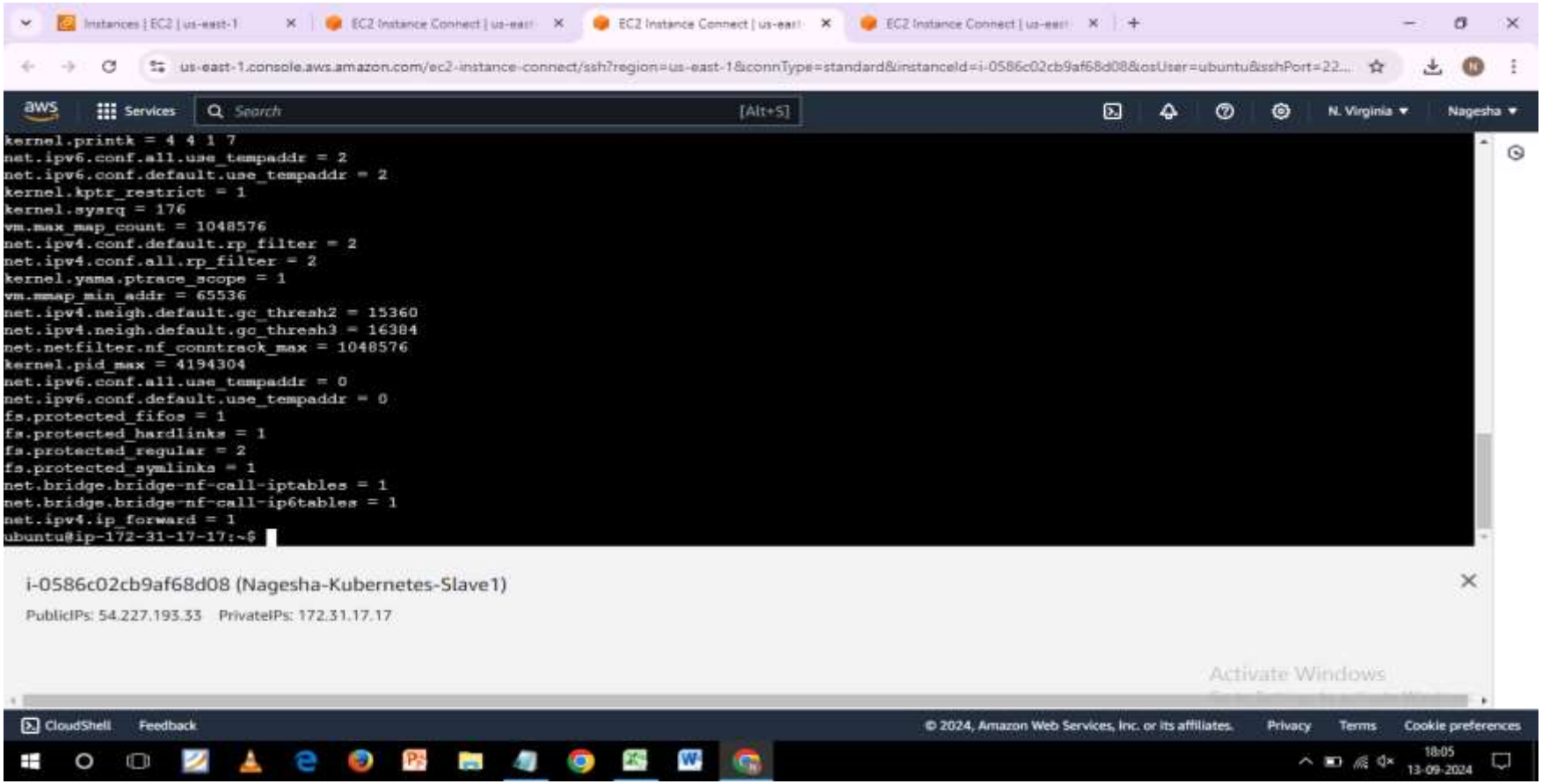
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EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0586c02cb9af68d08&osUser=ubuntu&sshPort=22...
aws
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Nagesha
kernel.printk = 4 4 1 7
net.ipv6.conf.all.use_tempaddr = 2
net.ipv6.conf.default.use_tempaddr = 2
kernel.kptr_restrict = 1
kernel.sysrq = 176
vm.max_map_count = 1048576
net.ipv4.conf.default.rp_filter = 2
net.ipv4.conf.all.rp_filter = 2
kernel.yama.ptrace_scope = 1
vm.mmap_min_addr = 65536
net.ipv4.neigh.default.gc_thresh2 = 15360
net.ipv4.neigh.default.gc_thresh3 = 16384
net.netfilter.nf_conntrack_max = 1048576
kernel.pid_max = 4194304
net.ipv6.conf.all.use_tempaddr = 0
net.ipv6.conf.default.use_tempaddr = 0
fs.protected_fifos = 1
fs.protected_hardlinks = 1
fs.protected_regular = 2
fs.protected_symlinks = 1
net.bridge.bridge-nf-call-iptables = 1
net.bridge.bridge-nf-call-ip6tables = 1
net.ipv4.ip_forward = 1
ubuntu@ip-172-31-17-17:~$
i-0586c02cb9af68d08 (Nagesha-Kubernetes-Slave1)
PublicIPs: 54.227.193.33 PrivateIPs: 172.31.17.17
Activate Windows
CloudShell
Feedback
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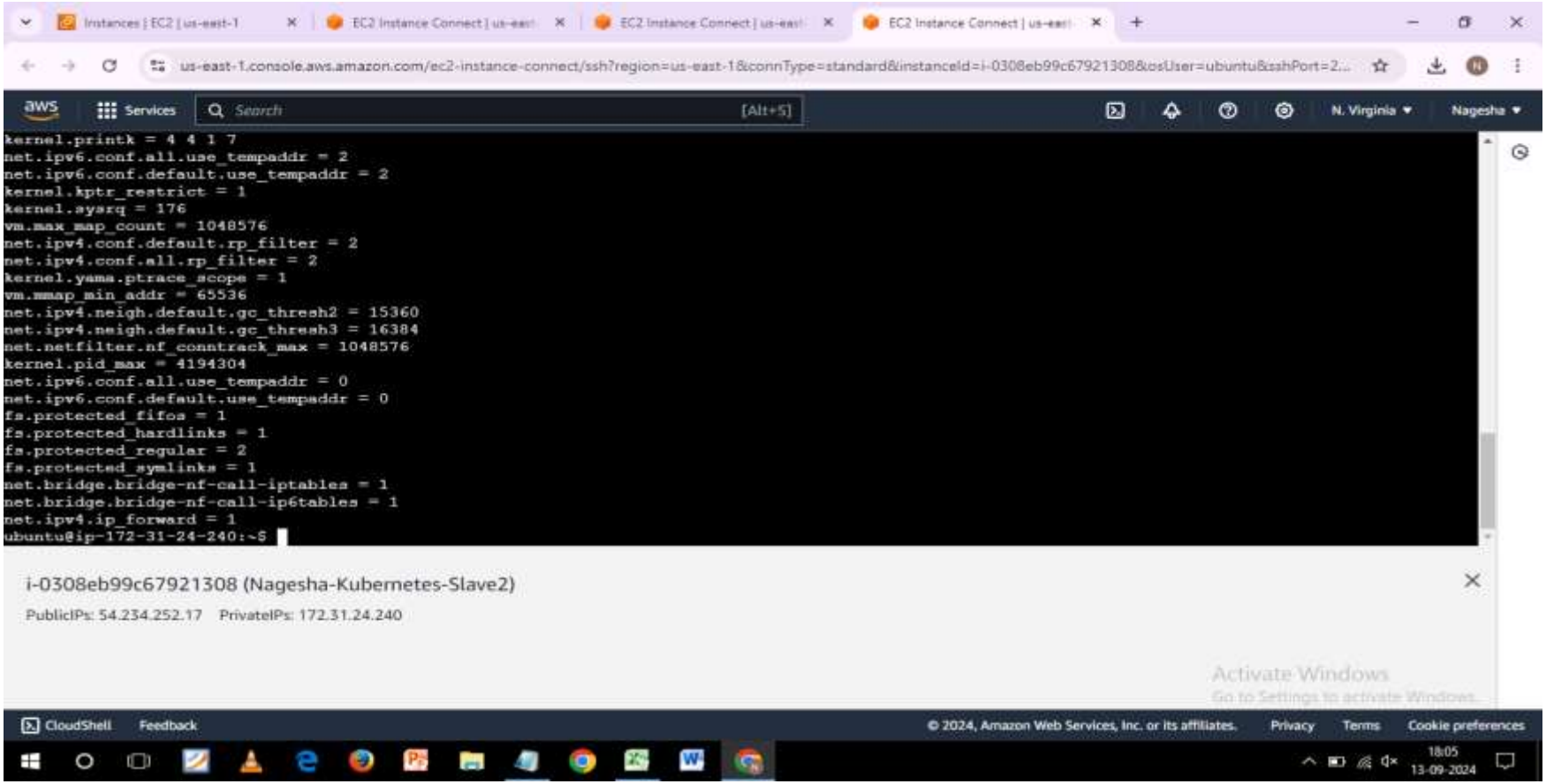
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0308eb99c67921308&osUser=ubuntu&sshPort=2...
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
kernel.printk = 4 4 1 7
net.ipv6.conf.all.use_tempaddr = 2
net.ipv6.conf.default.use_tempaddr = 2
kernel.kptr_restrict = 1
kernel.sysrq = 176
vm.max_map_count = 1048576
net.ipv4.conf.default.rp_filter = 2
net.ipv4.conf.all.rp_filter = 2
kernel.yama.ptrace_scope = 1
vm.mmap_min_addr = 65536
net.ipv4.neigh.default.gc_thresh2 = 15360
net.ipv4.neigh.default.gc_thresh3 = 16384
net.netfilter.nf_conntrack_max = 1048576
kernel.pid_max = 4194304
net.ipv6.conf.all.use_tempaddr = 0
net.ipv6.conf.default.use_tempaddr = 0
fs.protected_fifos = 1
fs.protected_hardlinks = 1
fs.protected_regular = 2
fs.protected_symlinks = 1
net.bridge.bridge-nf-call-iptables = 1
net.bridge.bridge-nf-call-ip6tables = 1
net.ipv4.ip_forward = 1
ubuntu@ip-172-31-24-240:~$
i-0308eb99c67921308 (Nagesha-Kubernetes-Slave2)
PublicIPs: 54.234.252.17 PrivateIPs: 172.31.24.240
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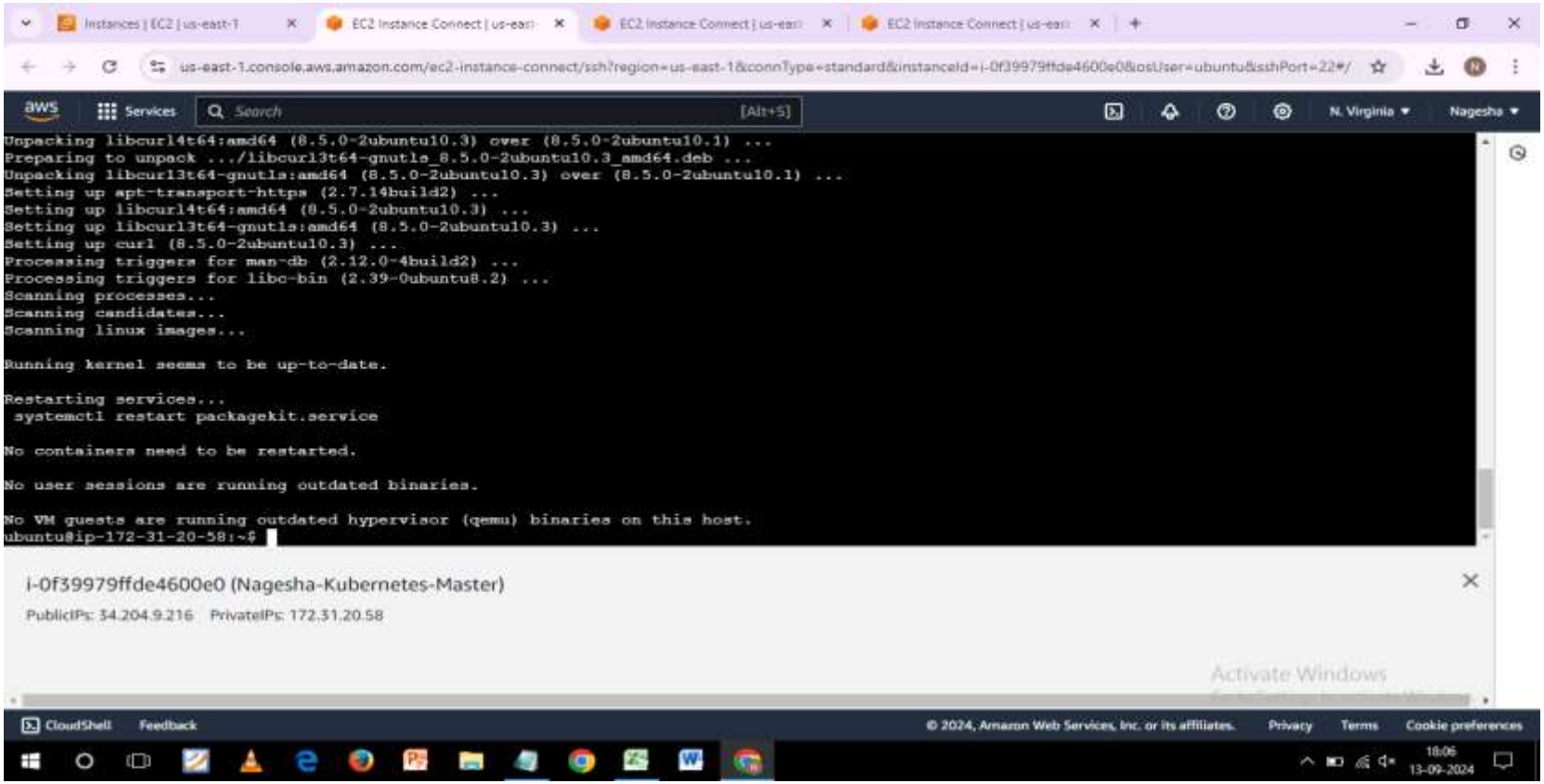
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-
EC2 Instance Connect | us-east-
EC2 Instance Connect | us-east-
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f39979ffde4600e0&osUser=ubuntu&sshPort=22#/
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
Unpacking libcurl4t64:amd64 (8.5.0-2ubuntu10.3) over (8.5.0-2ubuntu10.1) ...
Preparing to unpack .../libcurl3t64-gnutls_8.5.0-2ubuntu10.3_amd64.deb ...
Unpacking libcurl3t64-gnutls:amd64 (8.5.0-2ubuntu10.3) over (8.5.0-2ubuntu10.1) ...
Setting up apt-transport-https (2.7.14build2) ...
Setting up libcurl4t64:amd64 (8.5.0-2ubuntu10.3) ...
Setting up libcurl3t64-gnutls:amd64 (8.5.0-2ubuntu10.3) ...
Setting up curl (8.5.0-2ubuntu10.3) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...
Running kernel seems to be up-to-date.
Restarting services...
systemctl restart packagekit.service
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
PublicIPs: 34.204.9.216 PrivateIPs: 172.31.20.58
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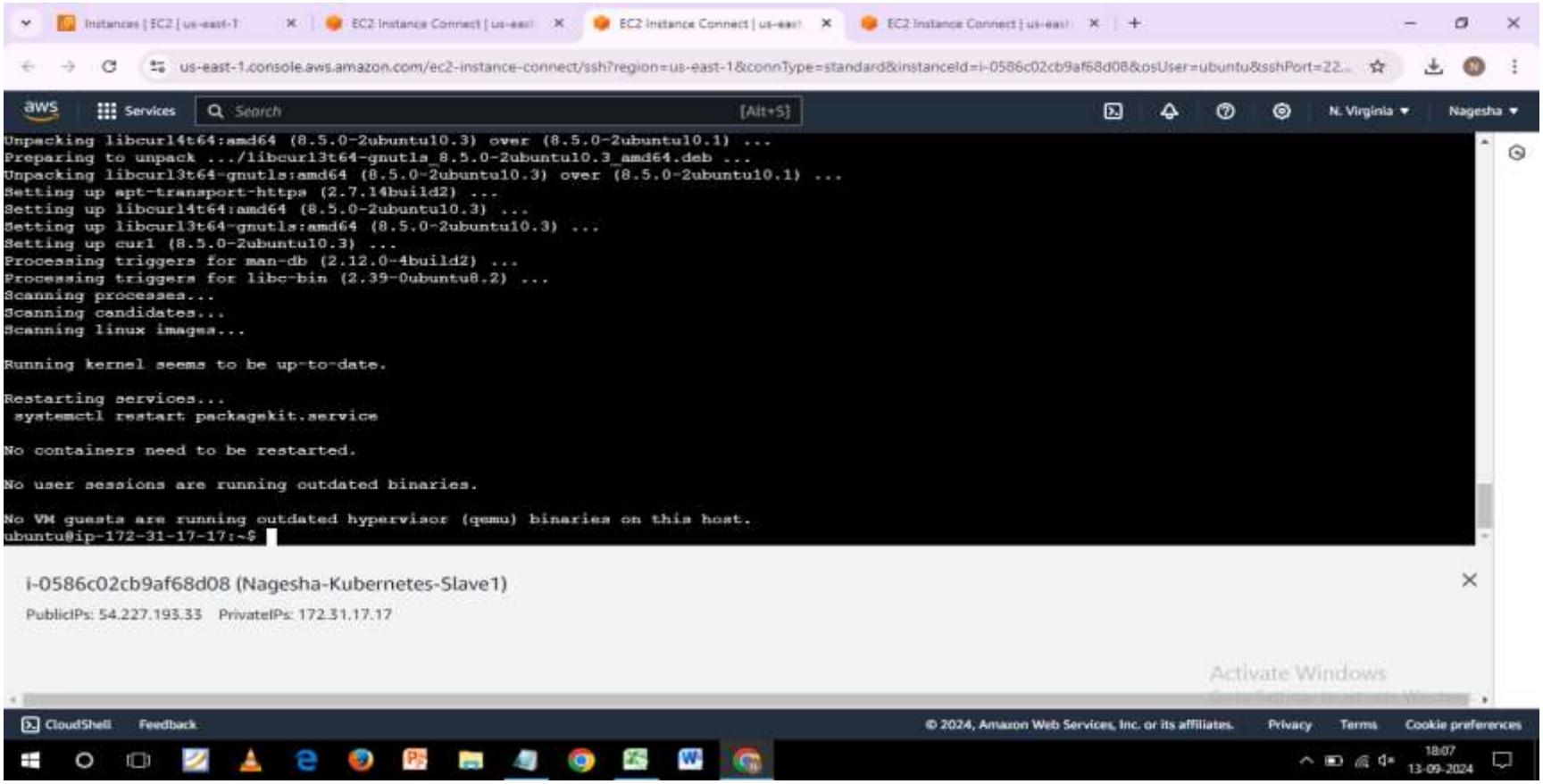
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0586c02cb9af68d08&osUser=ubuntu&sshPort=22...
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
Unpacking libcurl4t64:amd64 (8.5.0-2ubuntu10.3) over (8.5.0-2ubuntu10.1) ...
Preparing to unpack .../libcurl3t64-gnutls_8.5.0-2ubuntu10.3_amd64.deb ...
Unpacking libcurl3t64-gnutls:amd64 (8.5.0-2ubuntu10.3) over (8.5.0-2ubuntu10.1) ...
Setting up apt-transport-https (2.7.14build2) ...
Setting up libcurl4t64:amd64 (8.5.0-2ubuntu10.3) ...
Setting up libcurl3t64-gnutls:amd64 (8.5.0-2ubuntu10.3) ...
Setting up curl (8.5.0-2ubuntu10.3) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...
Running kernel seems to be up-to-date.
Restarting services...
systemctl restart packagekit.service
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-17-17:~$
i-0586c02cb9af68d08 (Nagesha-Kubernetes-Slave1)
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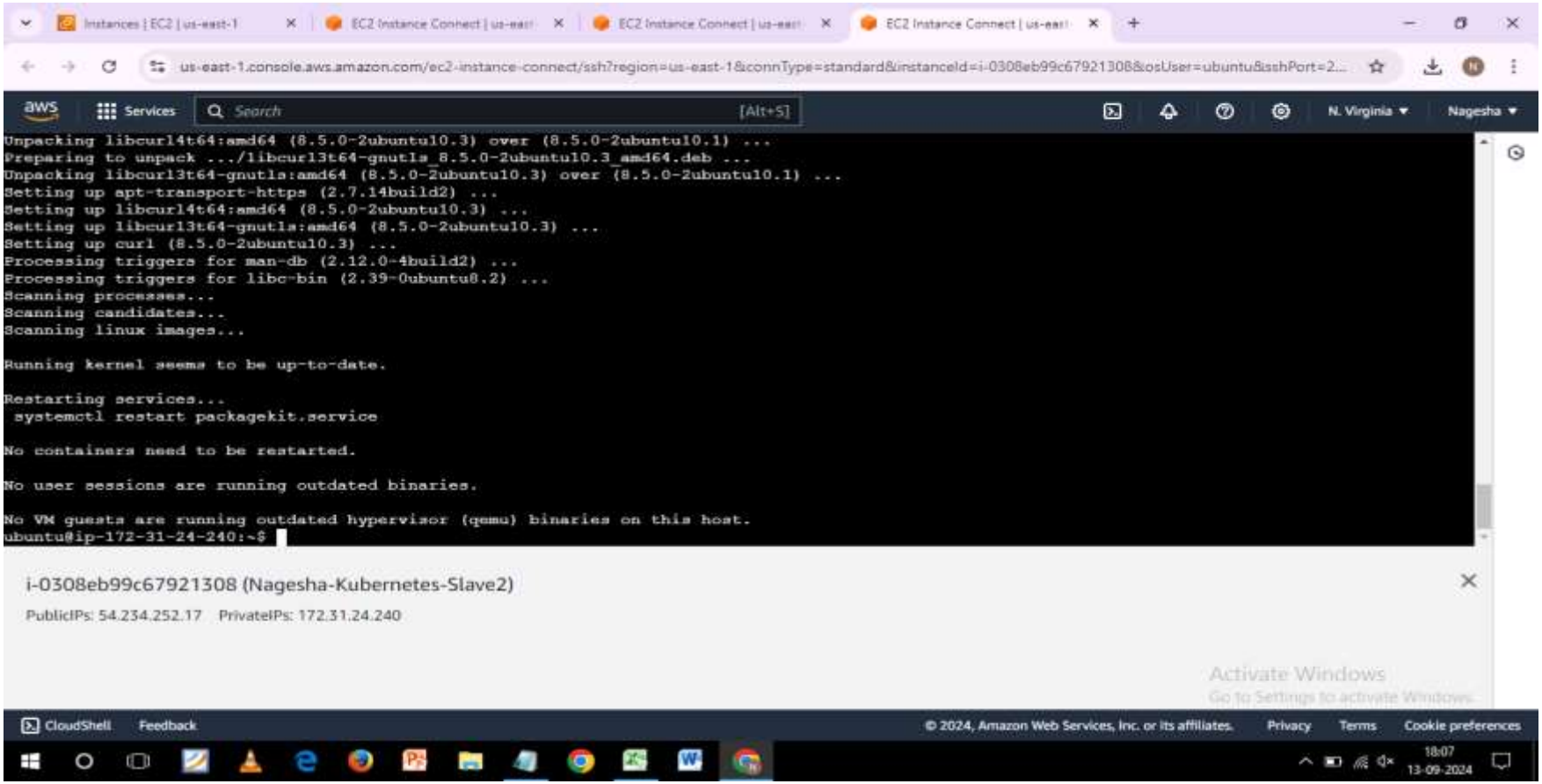
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0308eb99c67921308&osUser=ubuntu&sshPort=2...
aws
Services
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[Alt+S]
N. Virginia
Nagesha
Unpacking libcurl4t64:amd64 (8.5.0-2ubuntu10.3) over (8.5.0-2ubuntu10.1) ...
Preparing to unpack .../libcurl3t64-gnutls_8.5.0-2ubuntu10.3_amd64.deb ...
Unpacking libcurl3t64-gnutls:amd64 (8.5.0-2ubuntu10.3) over (8.5.0-2ubuntu10.1) ...
Setting up apt-transport-https (2.7.14build2) ...
Setting up libcurl4t64:amd64 (8.5.0-2ubuntu10.3) ...
Setting up libcurl3t64-gnutls:amd64 (8.5.0-2ubuntu10.3) ...
Setting up curl (8.5.0-2ubuntu10.3) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...
Running kernel seems to be up-to-date.
Restarting services...
systemctl restart packagekit.service
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-24-240:~$
i-0308eb99c67921308 (Nagesha-Kubernetes-Slave2)
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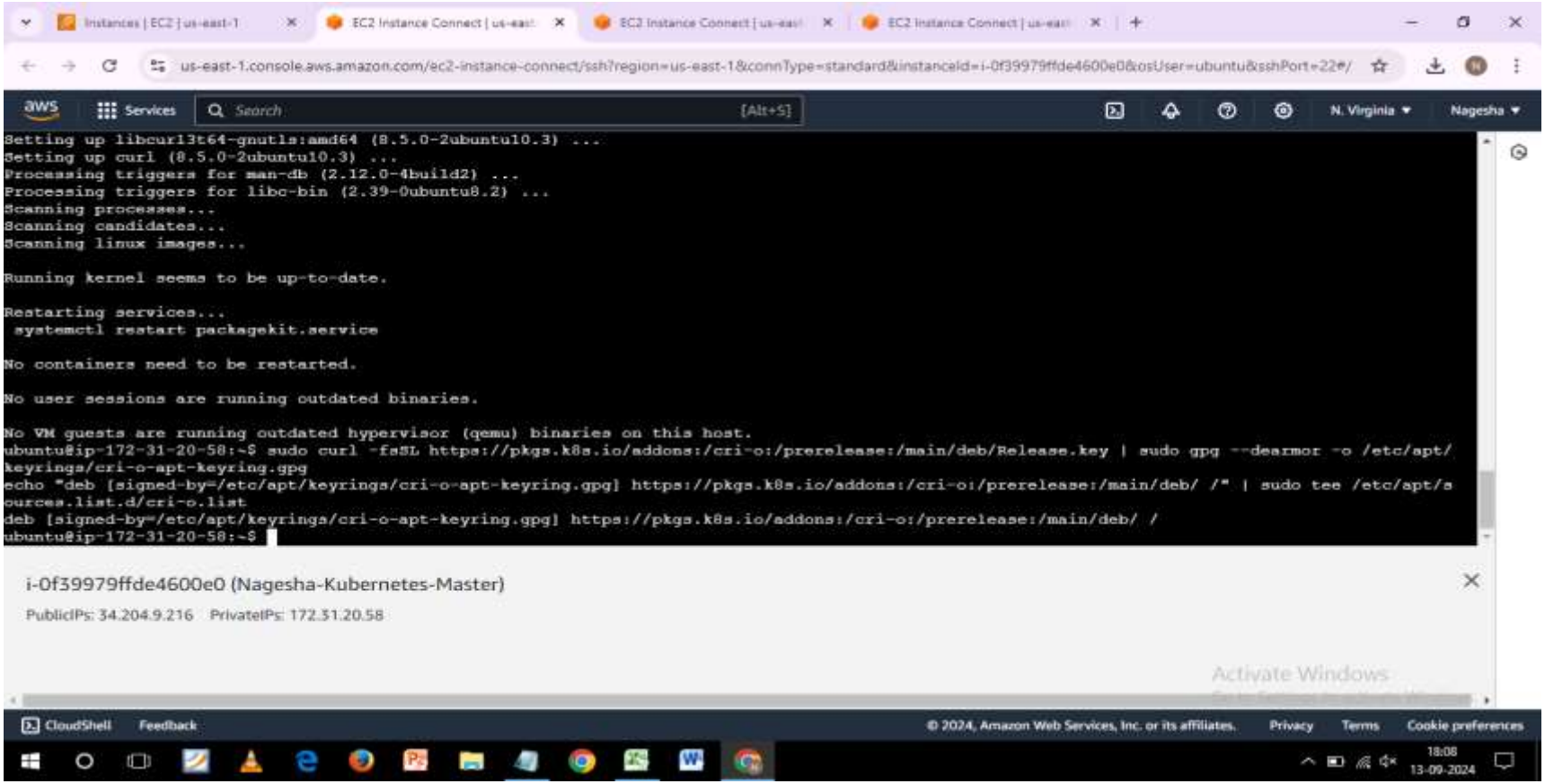
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f39979ffde4600e0&osUser=ubuntu&sshPort=22#/
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Services
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N. Virginia
Nagesha
Setting up libcurl3t64-gnutls:amd64 (8.5.0-2ubuntu10.3) ...
Setting up curl (8.5.0-2ubuntu10.3) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...
Running kernel seems to be up-to-date.
Restarting services...
systemctl restart packagekit.service
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-20-58:~$ sudo curl -fsSL https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb/Release.key | sudo gpg --dearmor -o /etc/apt/keyrings/cri-o-apt-keyring.gpg
echo "deb [signed-by=/etc/apt/keyrings/cri-o-apt-keyring.gpg] https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb/ /" | sudo tee /etc/apt/sources.list.d/cri-o.list
deb [signed-by=/etc/apt/keyrings/cri-o-apt-keyring.gpg] https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb/ /
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
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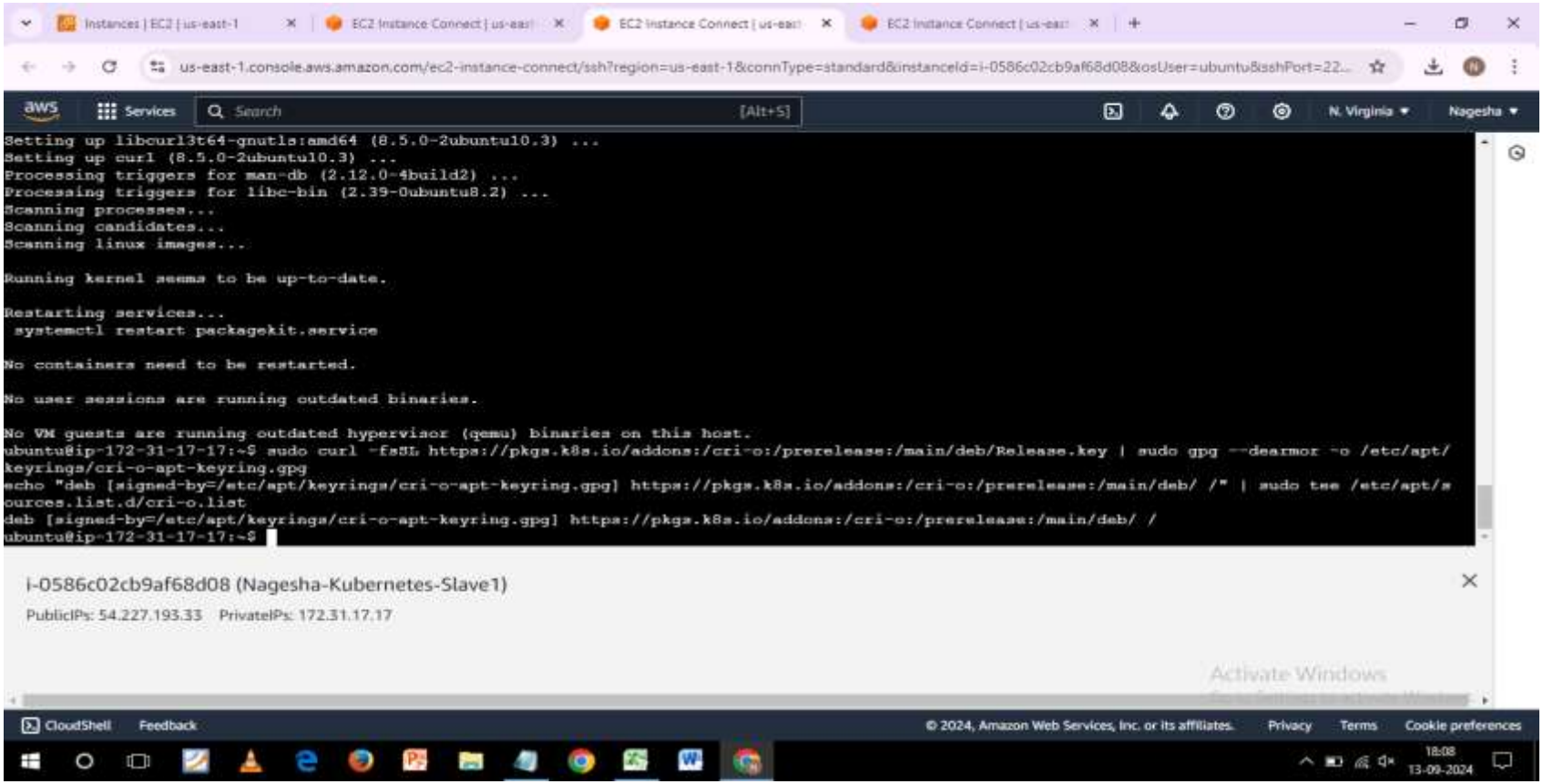
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0586c02cb9af68d08&osUser=ubuntu&sshPort=22...
aws
Services
Search
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N. Virginia
Nagesha
Setting up libcurl3t64-gnutls:amd64 (8.5.0-2ubuntu10.3) ...
Setting up curl (8.5.0-2ubuntu10.3) ...
Processing triggers for man-db (2.12.0-4build2) ...
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Running kernel seems to be up-to-date.
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systemctl restart packagekit.service
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-17-17:~$ sudo curl -fsSL https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb/Release.key | sudo gpg --dearmor -o /etc/apt/keyrings/cri-o-apt-keyring.gpg
echo "deb [signed-by=/etc/apt/keyrings/cri-o-apt-keyring.gpg] https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb/ /" | sudo tee /etc/apt/sources.list.d/cri-o.list
deb [signed-by=/etc/apt/keyrings/cri-o-apt-keyring.gpg] https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb/ /
ubuntu@ip-172-31-17-17:~$
i-0586c02cb9af68d08 (Nagesha-Kubernetes-Slave1)
PublicIPs: 54.227.193.33 PrivateIPs: 172.31.17.17
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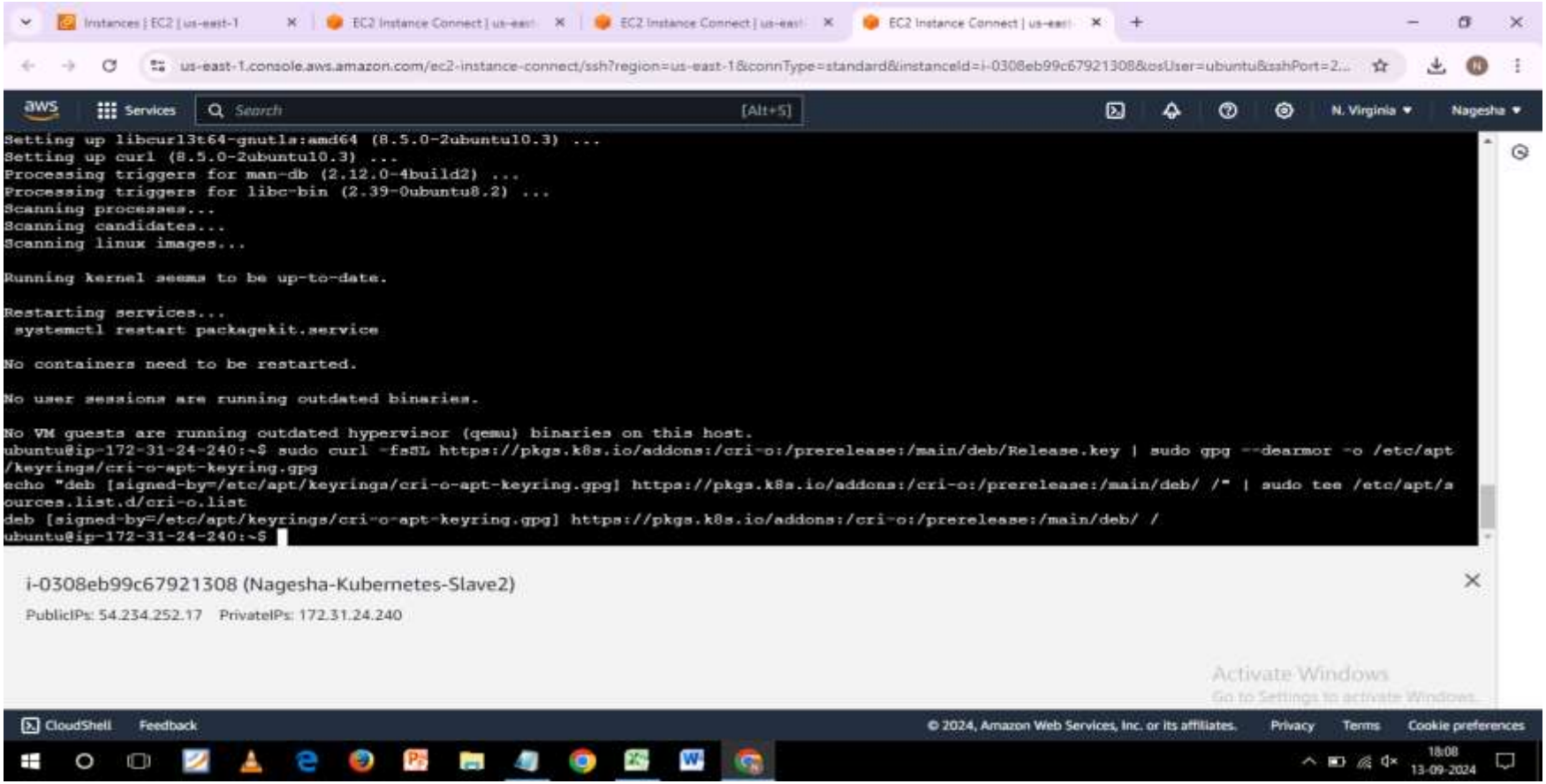
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0308eb99c67921308&osUser=ubuntu&sshPort=2...
aws
Services
Search
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N. Virginia
Nagesha
Setting up libcurl3t64-gnutls:amd64 (8.5.0-2ubuntu10.3) ...
Setting up curl (8.5.0-2ubuntu10.3) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...
Running kernel seems to be up-to-date.
Restarting services...
systemctl restart packagekit.service
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-24-240:~$ sudo curl -fsSL https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb/Release.key | sudo gpg --dearmor -o /etc/apt/keyrings/cri-o-apt-keyring.gpg
echo "deb [signed-by=/etc/apt/keyrings/cri-o-apt-keyring.gpg] https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb/ /" | sudo tee /etc/apt/sources.list.d/cri-o.list
deb [signed-by=/etc/apt/keyrings/cri-o-apt-keyring.gpg] https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb/ /
ubuntu@ip-172-31-24-240:~$
i-0308eb99c67921308 (Nagesha-Kubernetes-Slave2)
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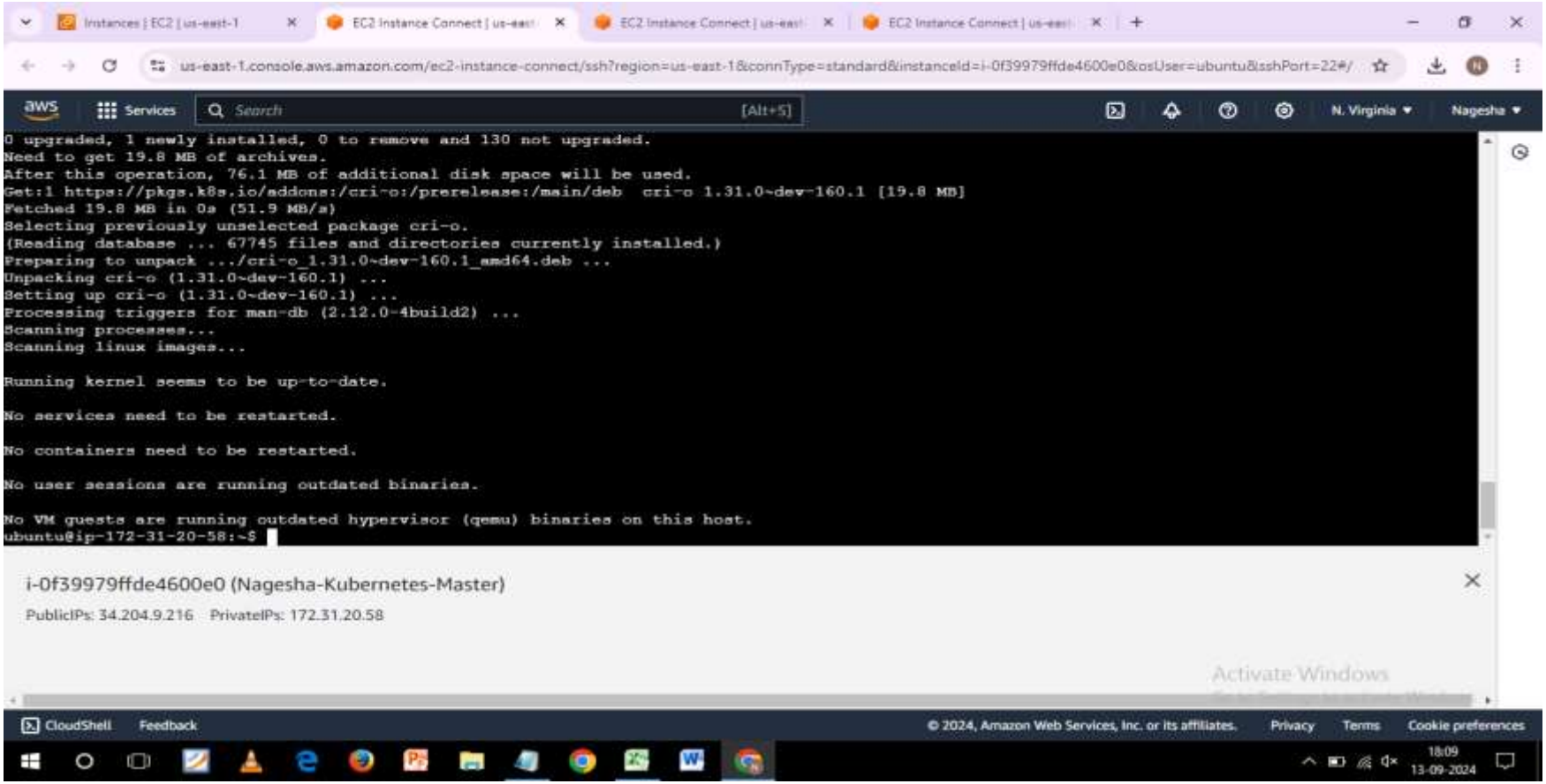
13-09-2024


Instances | EC2 | us-east-1
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f39979ffde4600e0&osUser=ubuntu&sshPort=22#/
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
0 upgraded, 1 newly installed, 0 to remove and 130 not upgraded.
Need to get 19.8 MB of archives.
After this operation, 76.1 MB of additional disk space will be used.
Get:1 https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb cri-o 1.31.0~dev-160.1 [19.8 MB]
Fetched 19.8 MB in 0s (51.9 MB/s)
Selecting previously unselected package cri-o.
(Reading database ... 67745 files and directories currently installed.)
Preparing to unpack .../cri-o_1.31.0~dev-160.1_amd64.deb ...
Unpacking cri-o (1.31.0~dev-160.1) ...
Setting up cri-o (1.31.0~dev-160.1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
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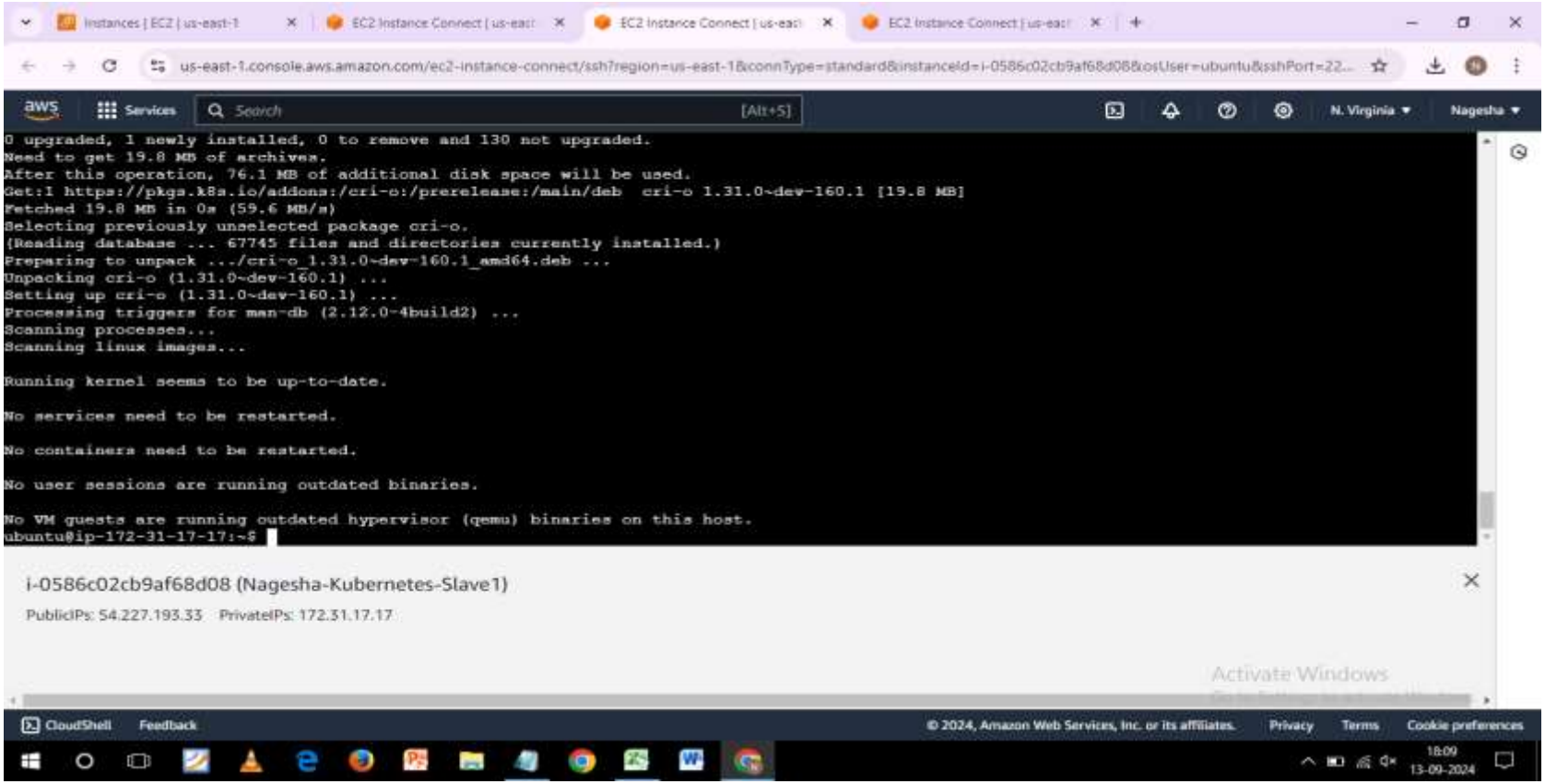
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0586c02cb9af68d08&osUser=ubuntu&sshPort=22...
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
0 upgraded, 1 newly installed, 0 to remove and 130 not upgraded.
Need to get 19.8 MB of archives.
After this operation, 76.1 MB of additional disk space will be used.
Get:1 https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb cri-o 1.31.0~dev-160.1 [19.8 MB]
Fetched 19.8 MB in 0s (59.6 MB/s)
Selecting previously unselected package cri-o.
(Reading database ... 67745 files and directories currently installed.)
Preparing to unpack .../cri-o_1.31.0~dev-160.1_amd64.deb ...
Unpacking cri-o (1.31.0~dev-160.1) ...
Setting up cri-o (1.31.0~dev-160.1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-17-17:~$
i-0586c02cb9af68d08 (Nagesha-Kubernetes-Slave1)
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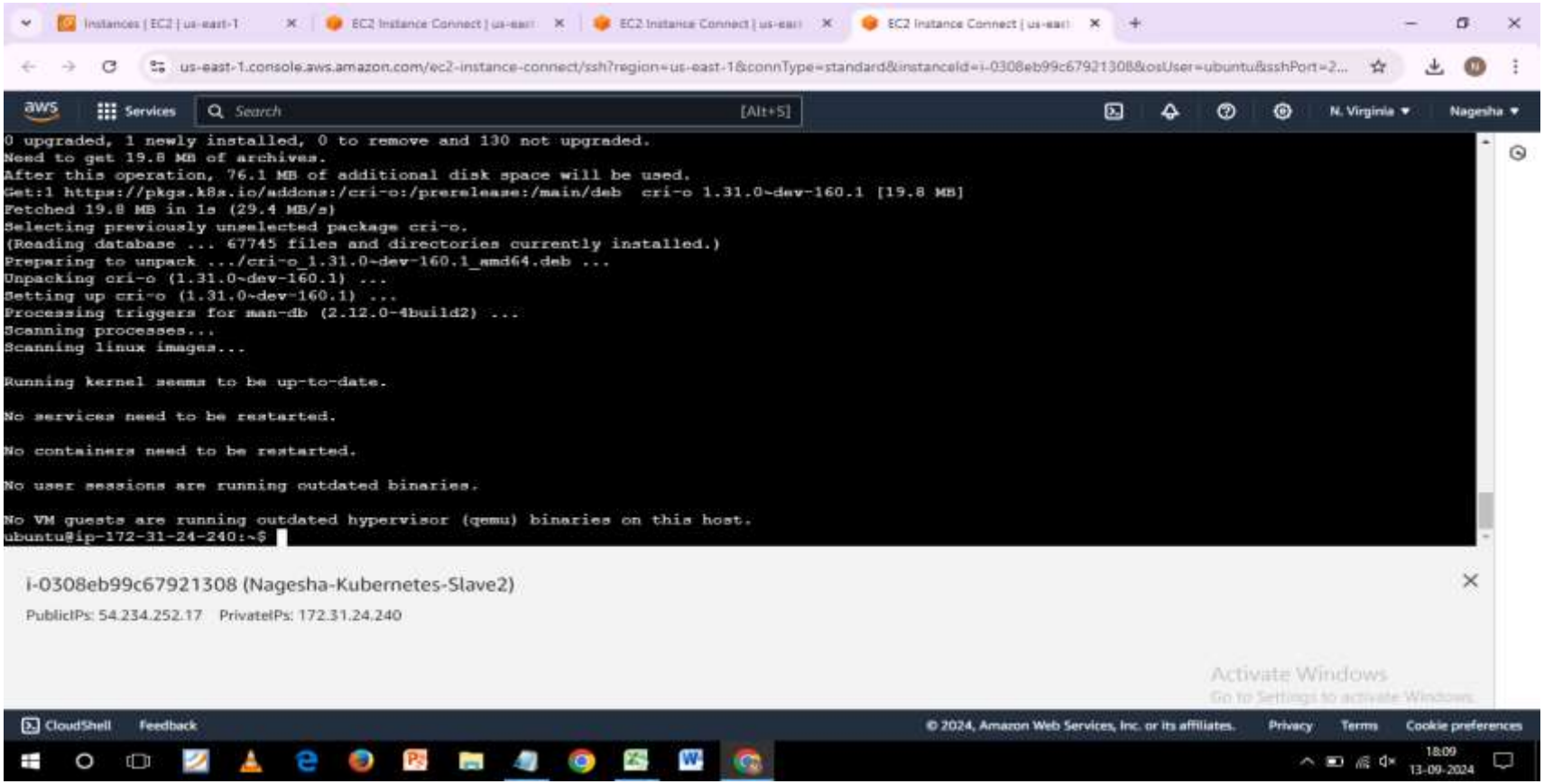
13-09-2024


Instances | EC2 | us-east-1
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0308eb99c67921308&osUser=ubuntu&sshPort=2...
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
0 upgraded, 1 newly installed, 0 to remove and 130 not upgraded.
Need to get 19.8 MB of archives.
After this operation, 76.1 MB of additional disk space will be used.
Get:1 https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb cri-o 1.31.0~dev-160.1 [19.8 MB]
Fetched 19.8 MB in 1s (29.4 MB/s)
Selecting previously unselected package cri-o.
(Reading database ... 67745 files and directories currently installed.)
Preparing to unpack .../cri-o_1.31.0~dev-160.1_amd64.deb ...
Unpacking cri-o (1.31.0~dev-160.1) ...
Setting up cri-o (1.31.0~dev-160.1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-24-240:~$
i-0308eb99c67921308 (Nagesha-Kubernetes-Slave2)
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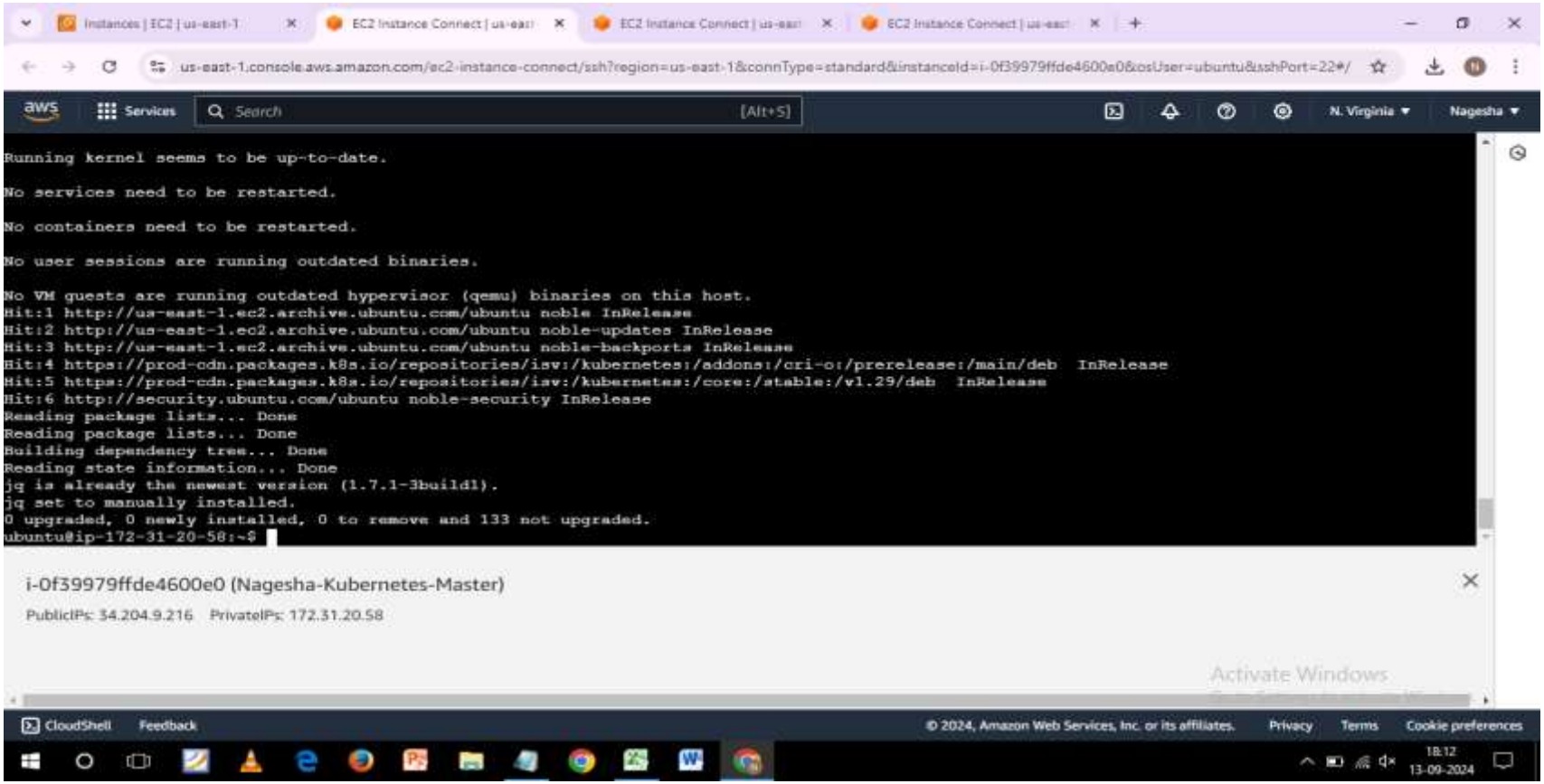
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f39979ffde4600e0&osUser=ubuntu&sshPort=22#/
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/addons:/cri-o:/prerelease:/main/deb InRelease
Hit:5 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb InRelease
Hit:6 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
jq is already the newest version (1.7.1-3build1).
jq set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 133 not upgraded.
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
PublicIPs: 34.204.9.216 PrivateIPs: 172.31.20.58
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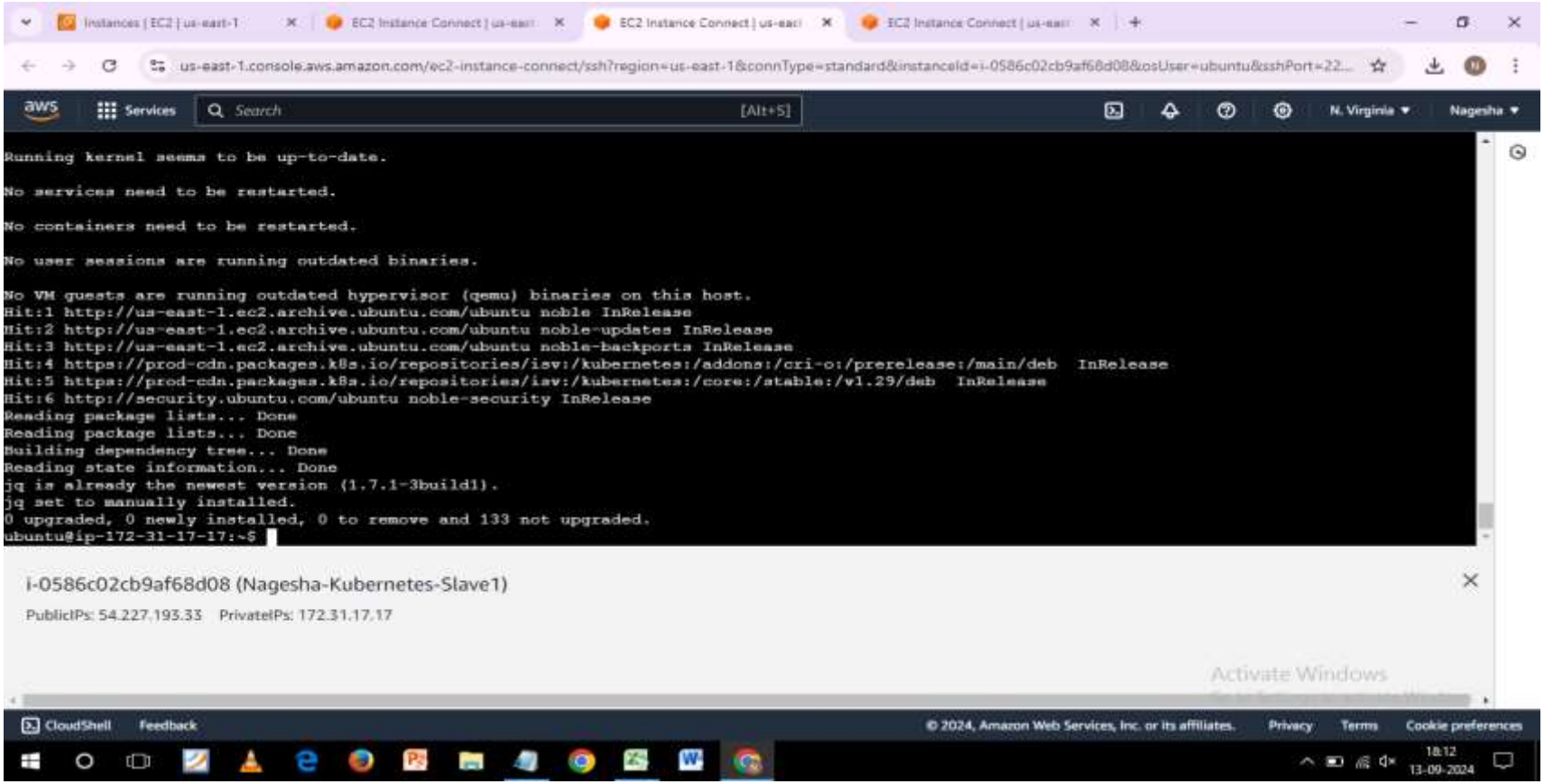
13-09-2024


Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0586c02cb9af68d08&osUser=ubuntu&sshPort=22...
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/addons:/cri-o:/prerelease:/main/deb InRelease
Hit:5 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb InRelease
Hit:6 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
jq is already the newest version (1.7.1-3build1).
jq set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 133 not upgraded.
ubuntu@ip-172-31-17-17:~$
i-0586c02cb9af68d08 (Nagesha-Kubernetes-Slave1)
PublicIPs: 54.227.193.33 PrivateIPs: 172.31.17.17
Activate Windows
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
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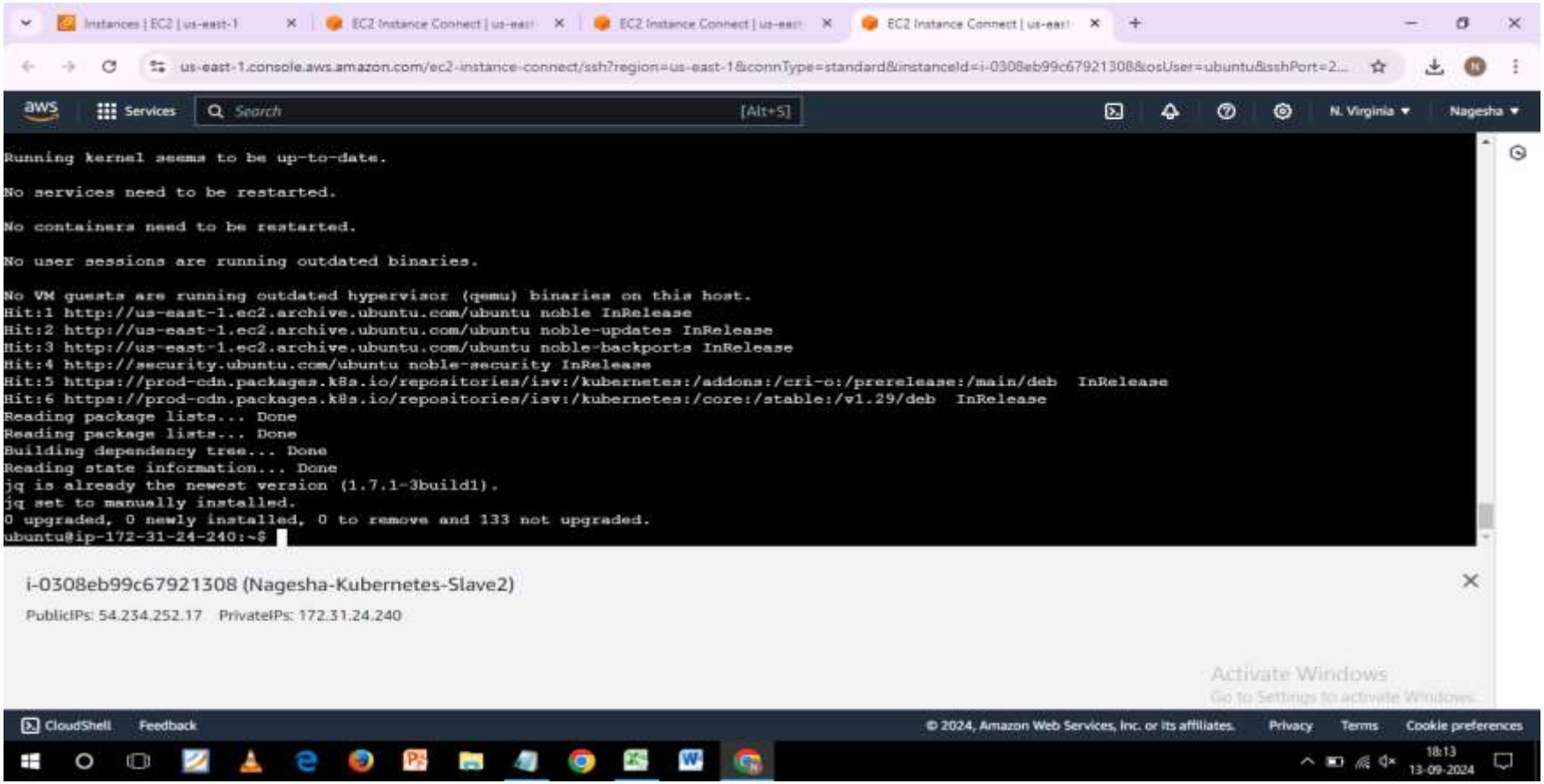
Terms
Cookie preferences
18:12
13-09-2024


Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0308eb99c67921308&osUser=ubuntu&sshPort=2...
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:5 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/addons:/cri-o:/prerelease:/main/deb InRelease
Hit:6 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb InRelease
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
jq is already the newest version (1.7.1-3build1).
jq set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 133 not upgraded.
ubuntu@ip-172-31-24-240:~$
i-0308eb99c67921308 (Nagesha-Kubernetes-Slave2)
PublicIPs: 54.234.252.17 PrivateIPs: 172.31.24.240
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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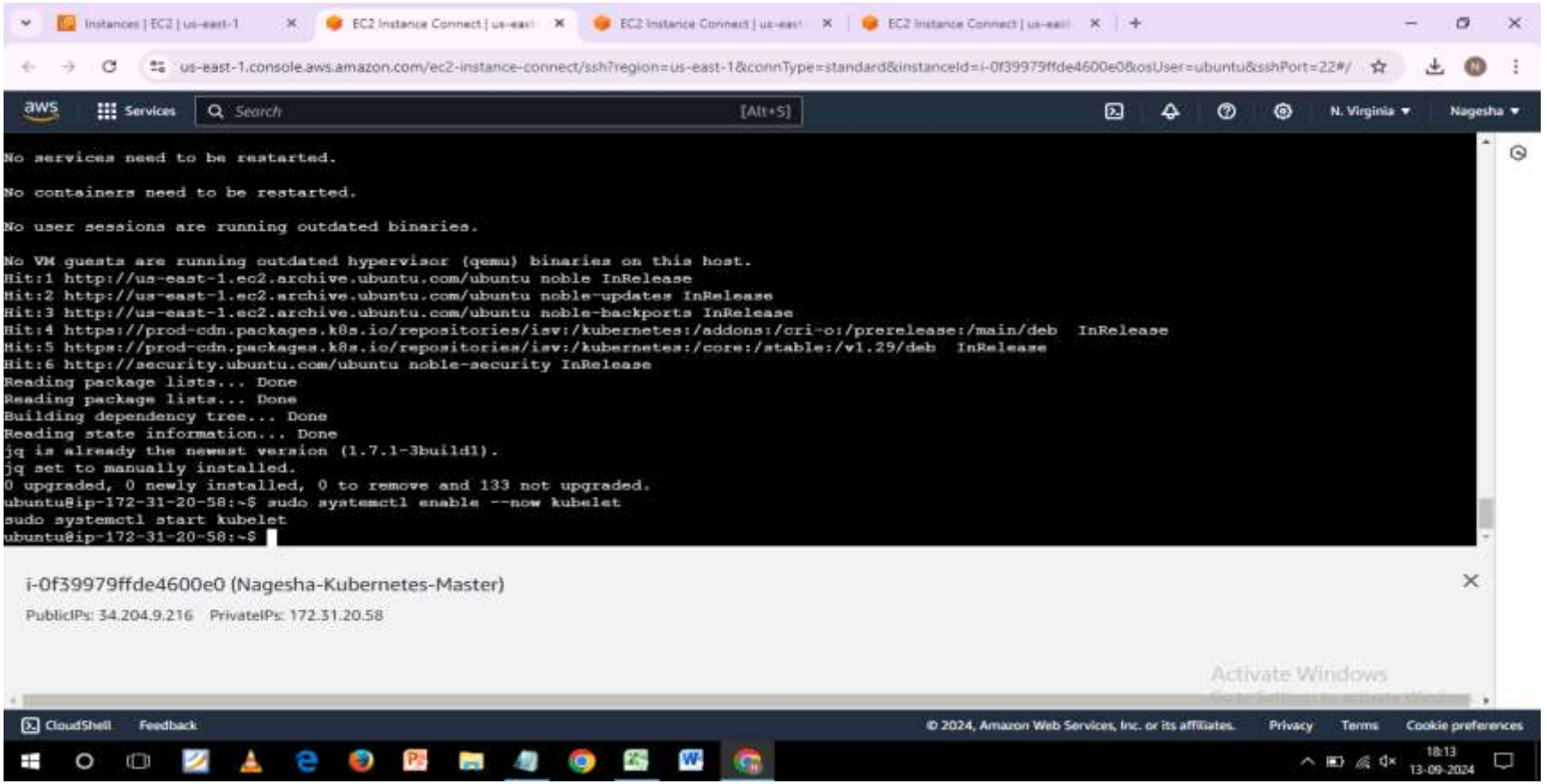
Terms
Cookie preferences
18:13
13-09-2024


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f39979ffde4600e0&osUser=ubuntu&sshPort=22#/
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/addons:/cri-o:/prerelease:/main/deb InRelease
Hit:5 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb InRelease
Hit:6 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
jq is already the newest version (1.7.1-3build1).
jq set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 133 not upgraded.
ubuntu@ip-172-31-20-58:~$ sudo systemctl enable --now kubelet
sudo systemctl start kubelet
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
PublicIPs: 34.204.9.216 PrivateIPs: 172.31.20.58
Activate Windows
CloudShell
Feedback
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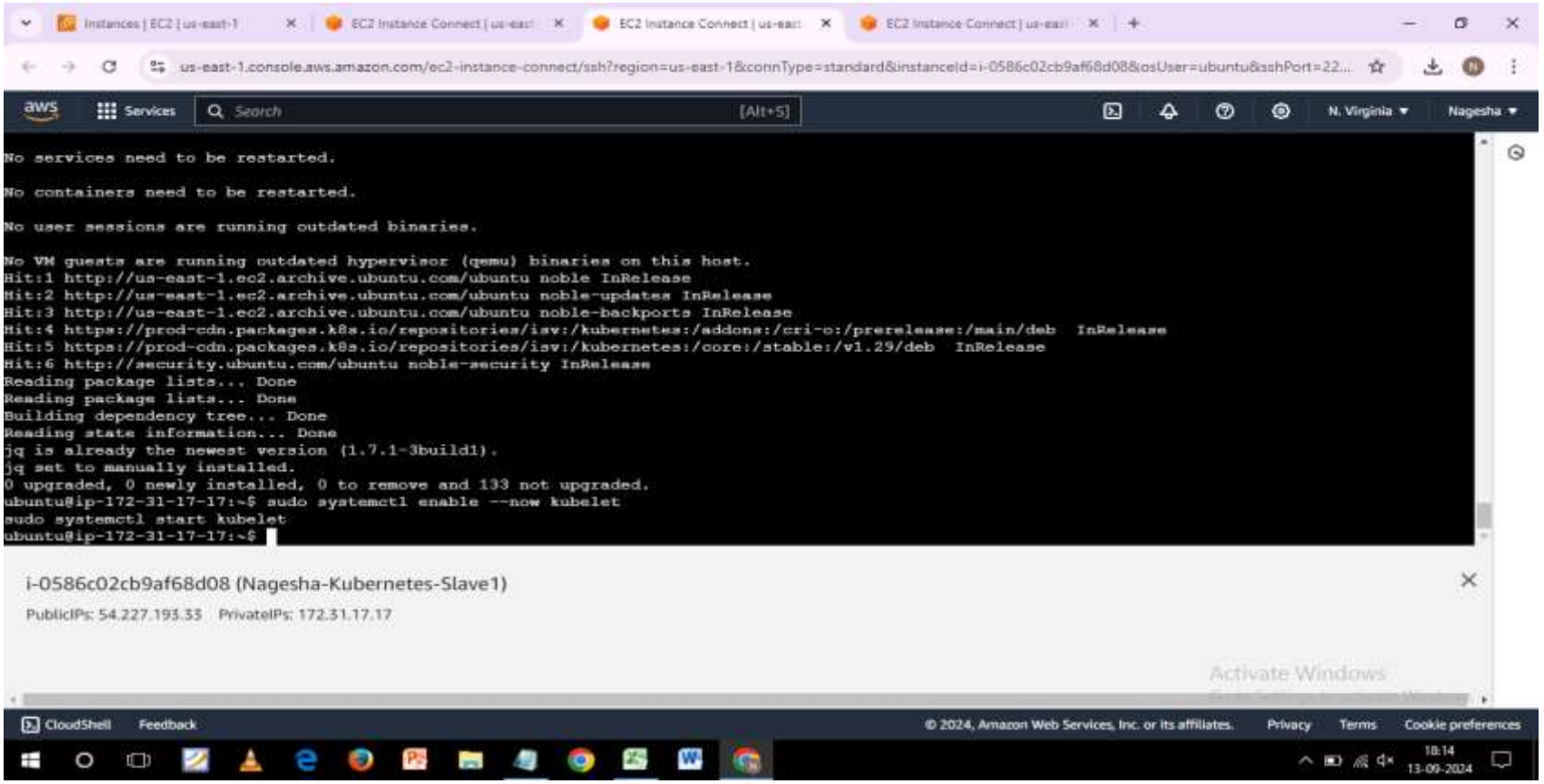
18:13
13-09-2024


No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/addons:/cri-o:/prerelease:/main/deb InRelease
Hit:5 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb InRelease
Hit:6 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
jq is already the newest version (1.7.1-3build1).
jq set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 133 not upgraded.
ubuntu@ip-172-31-17-17:~$ sudo systemctl enable --now kubelet
sudo systemctl start kubelet
ubuntu@ip-172-31-17-17:~$
i-0586c02cb9af68d08 (Nagesha-Kubernetes-Slave1)
PublicIPs: 54.227.193.33 PrivateIPs: 172.31.17.17
Activate Windows
CloudShell
Feedback
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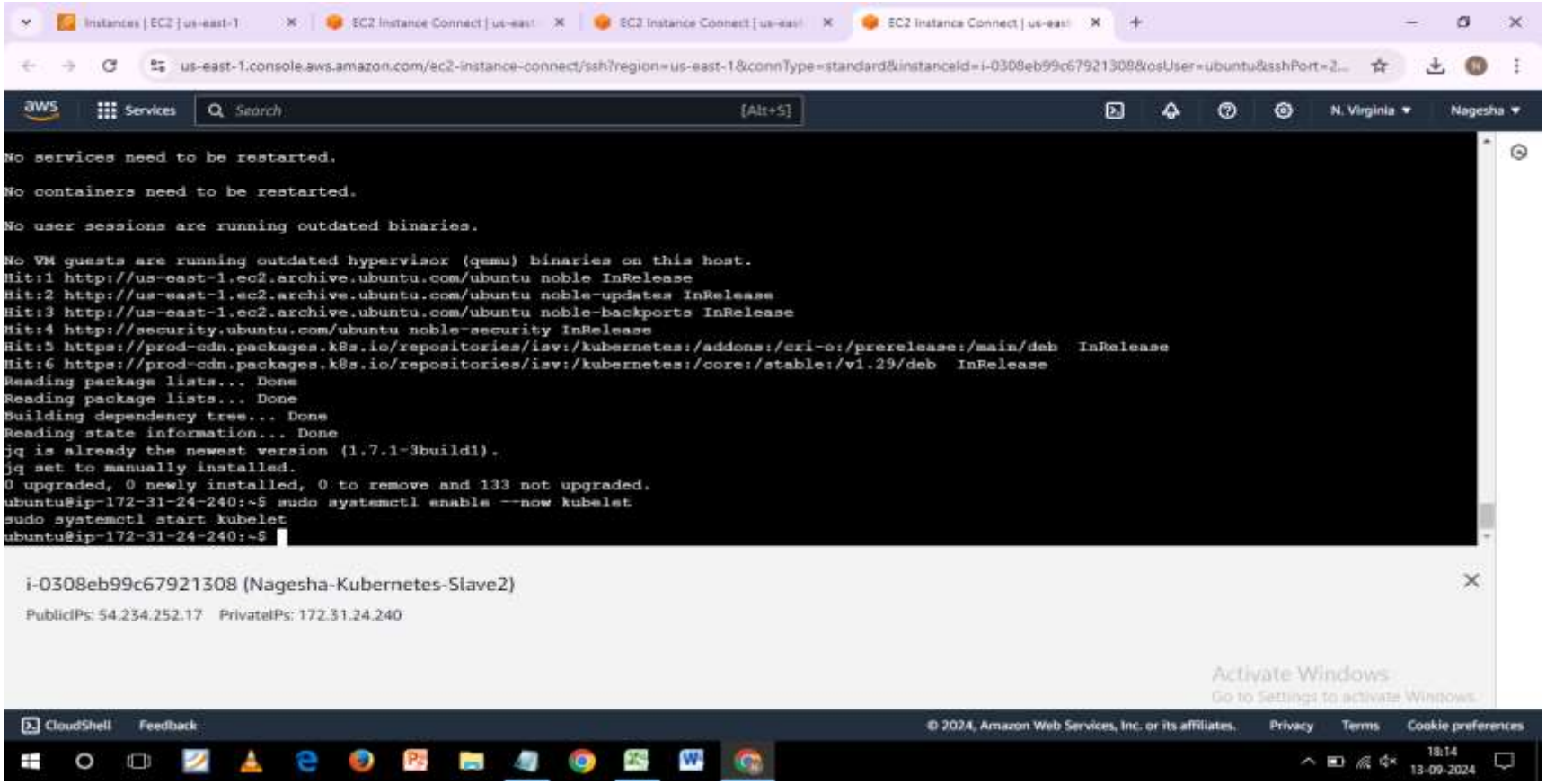
18:14
13-09-2024


No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:5 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/addons:/cri-o:/prerelease:/main/deb InRelease
Hit:6 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.29/deb InRelease
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
jq is already the newest version (1.7.1-3build1).
jq set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 133 not upgraded.
ubuntu@ip-172-31-24-240:~$ sudo systemctl enable --now kubelet
sudo systemctl start kubelet
ubuntu@ip-172-31-24-240:~$
i-0308eb99c67921308 (Nagesha-Kubernetes-Slave2)
PublicIPs: 54.234.252.17 PrivateIPs: 172.31.24.240
Activate Windows
Go to Settings to activate Windows.
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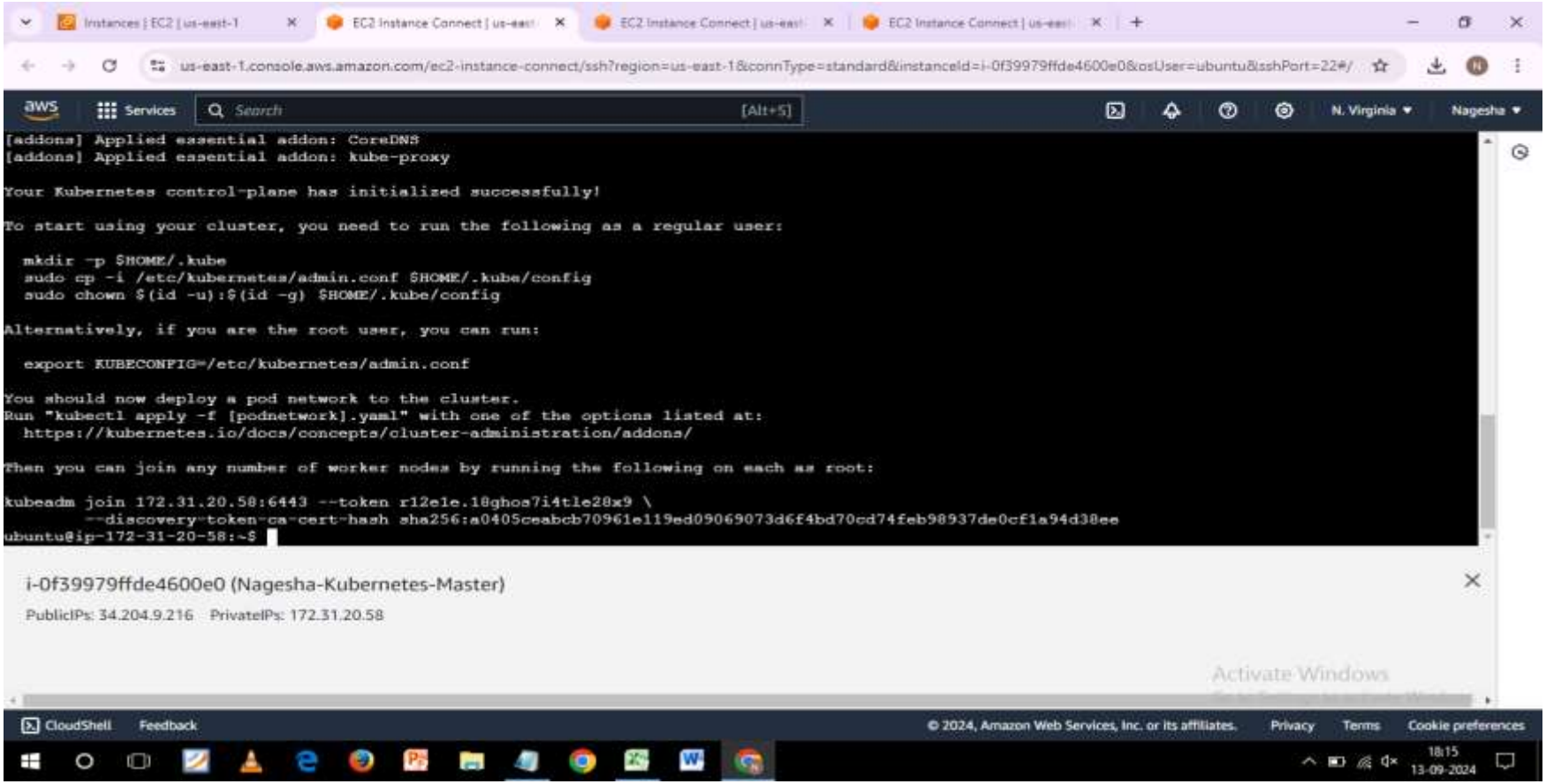
[addons] Applied essential addon: CoreDNS
[addons] Applied essential addon: kube-proxy
Your Kubernetes control-plane has initialized successfully!
To start using your cluster, you need to run the following as a regular user:
mkdir -p $HOME/.kube
sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
sudo chown $(id -u):$(id -g) $HOME/.kube/config
Alternatively, if you are the root user, you can run:
export KUBECONFIG=/etc/kubernetes/admin.conf
You should now deploy a pod network to the cluster.
Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:
https://kubernetes.io/docs/concepts/cluster-administration/addons/
Then you can join any number of worker nodes by running the following on each as root:
kubeadm join 172.31.20.58:6443 --token r12e1e.18ghos7i4tle28x9 \
--discovery-token-ca-cert-hash sha256:a0405ceabcb70961e119ed09069073d6f4bd70cd74feb98937de0cf1a94d38ee
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
PublicIPs: 34.204.9.216 PrivateIPs: 172.31.20.58
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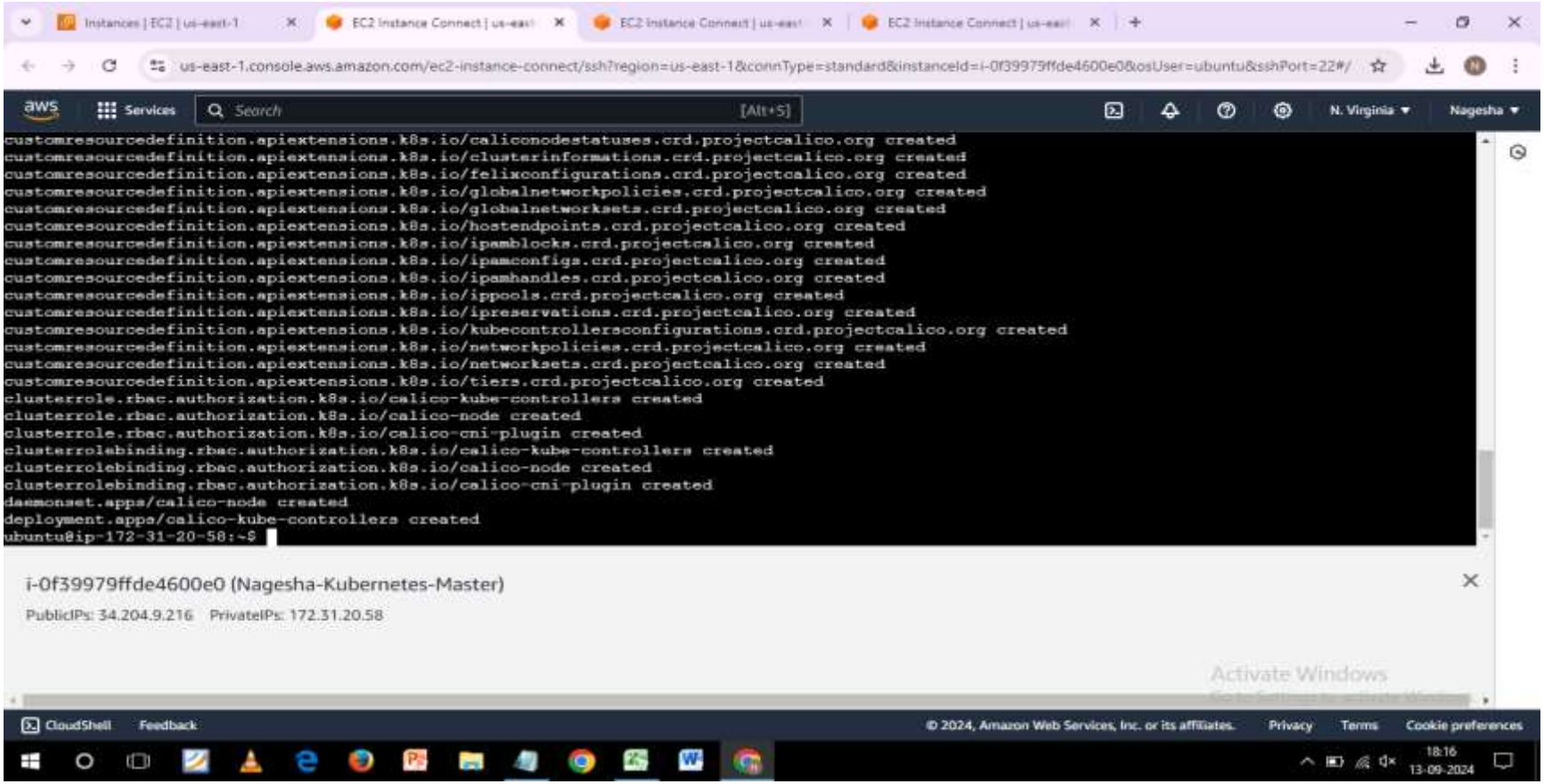
customresourcedefinition.apiextensions.k8s.io/caliconodestatuses.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/clusterinformations.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/felixconfigurations.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/globalnetworkpolicies.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/globalnetworksets.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/hostendpoints.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/ipamblocks.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/ipamconfigs.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/ipamhandles.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/ippools.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/ipreservations.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/kubecontrollersconfigurations.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/networkpolicies.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/networksets.crd.projectcalico.org created
customresourcedefinition.apiextensions.k8s.io/tiers.crd.projectcalico.org created
clusterrole.rbac.authorization.k8s.io/calico-kube-controllers created
clusterrole.rbac.authorization.k8s.io/calico-node created
clusterrole.rbac.authorization.k8s.io/calico-cni-plugin created
clusterrolebinding.rbac.authorization.k8s.io/calico-kube-controllers created
clusterrolebinding.rbac.authorization.k8s.io/calico-node created
clusterrolebinding.rbac.authorization.k8s.io/calico-cni-plugin created
daemonset.apps/calico-node created
deployment.apps/calico-kube-controllers created
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
PublicIPs: 34.204.9.216 PrivateIPs: 172.31.20.58
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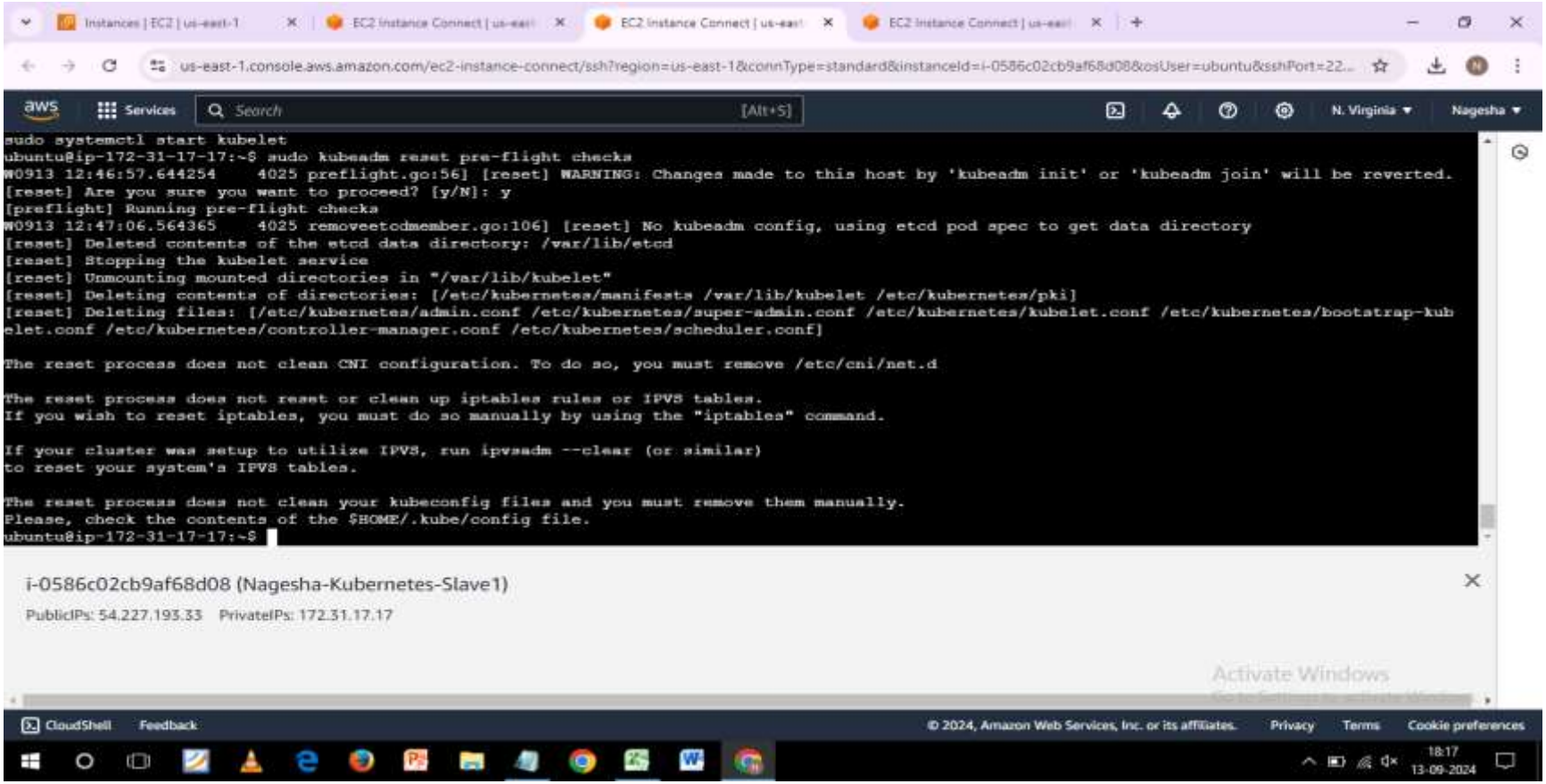
13-09-2024


sudo systemctl start kubelet
ubuntu@ip-172-31-17-17:~$ sudo kubeadm reset pre-flight checks
W0913 12:46:57.644254 4025 preflight.go:56] [reset] WARNING: Changes made to this host by 'kubeadm init' or 'kubeadm join' will be reverted.
[reset] Are you sure you want to proceed? [y/N]: y
[preflight] Running pre-flight checks
W0913 12:47:06.564365 4025 removeetodmember.go:106] [reset] No kubeadm config, using etcd pod spec to get data directory
[reset] Deleted contents of the etcd data directory: /var/lib/etcd
[reset] Stopping the kubelet service
[reset] Unmounting mounted directories in "/var/lib/kubelet"
[reset] Deleting contents of directories: [/etc/kubernetes/manifests /var/lib/kubelet /etc/kubernetes/pki]
[reset] Deleting files: [/etc/kubernetes/admin.conf /etc/kubernetes/super-admin.conf /etc/kubernetes/kubelet.conf /etc/kubernetes/bootstrap-kubelet.conf /etc/kubernetes/controller-manager.conf /etc/kubernetes/scheduler.conf]
The reset process does not clean CNI configuration. To do so, you must remove /etc/cni/net.d
The reset process does not reset or clean up iptables rules or IPVS tables.
If you wish to reset iptables, you must do so manually by using the "iptables" command.
If your cluster was setup to utilize IPVS, run ipvsadm --clear (or similar)
to reset your system's IPVS tables.
The reset process does not clean your kubeconfig files and you must remove them manually.
Please, check the contents of the $HOME/.kube/config file.
ubuntu@ip-172-31-17-17:~$
i-0586c02cb9af68d08 (Nagesha-Kubernetes-Slave1)
PublicIPs: 54.227.193.33 PrivateIPs: 172.31.17.17
Activate Windows
CloudShell
Feedback
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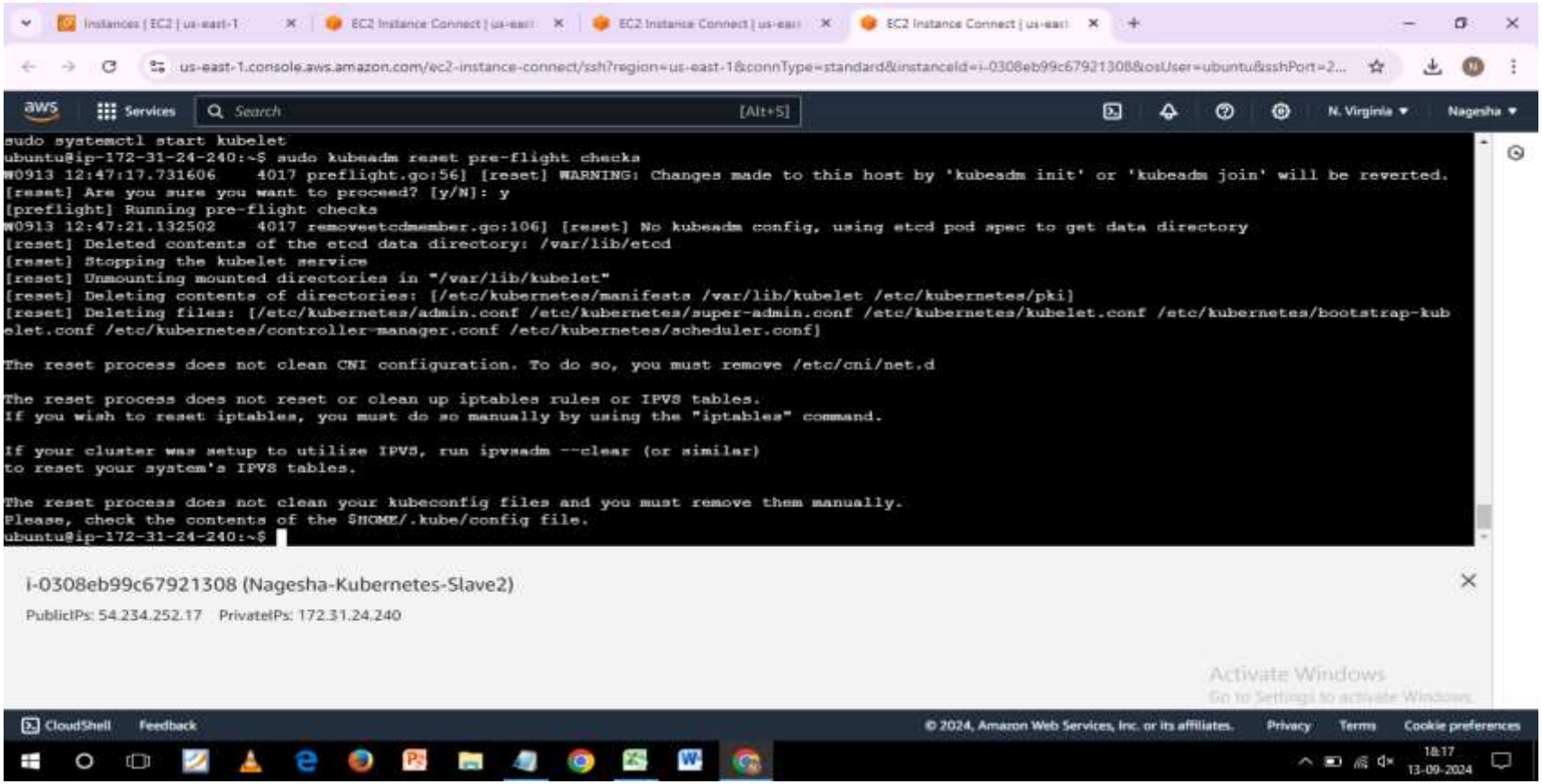
18:17
13-09-2024


sudo systemctl start kubelet
ubuntu@ip-172-31-24-240:~$ sudo kubeadm reset pre-flight checks
W0913 12:47:17.731606 4017 preflight.go:56] [reset] WARNING: Changes made to this host by 'kubeadm init' or 'kubeadm join' will be reverted.
[reset] Are you sure you want to proceed? [y/N]: y
[preflight] Running pre-flight checks
W0913 12:47:21.132502 4017 removeetcdmember.go:106] [reset] No kubeadm config, using etcd pod spec to get data directory
[reset] Deleted contents of the etcd data directory: /var/lib/etcd
[reset] Stopping the kubelet service
[reset] Unmounting mounted directories in "/var/lib/kubelet"
[reset] Deleting contents of directories: [/etc/kubernetes/manifests /var/lib/kubelet /etc/kubernetes/pki]
[reset] Deleting files: [/etc/kubernetes/admin.conf /etc/kubernetes/super-admin.conf /etc/kubernetes/kubelet.conf /etc/kubernetes/bootstrap-kubelet.conf /etc/kubernetes/controller-manager.conf /etc/kubernetes/scheduler.conf]
The reset process does not clean CNI configuration. To do so, you must remove /etc/cni/net.d
The reset process does not reset or clean up iptables rules or IPVS tables.
If you wish to reset iptables, you must do so manually by using the "iptables" command.
If your cluster was setup to utilize IPVS, run ipvsadm --clear (or similar)
to reset your system's IPVS tables.
The reset process does not clean your kubeconfig files and you must remove them manually.
Please, check the contents of the $HOME/.kube/config file.
ubuntu@ip-172-31-24-240:~$
i-0308eb99c67921308 (Nagesha-Kubernetes-Slave2)
PublicIPs: 54.234.252.17 PrivateIPs: 172.31.24.240
Activate Windows
CloudShell
Feedback
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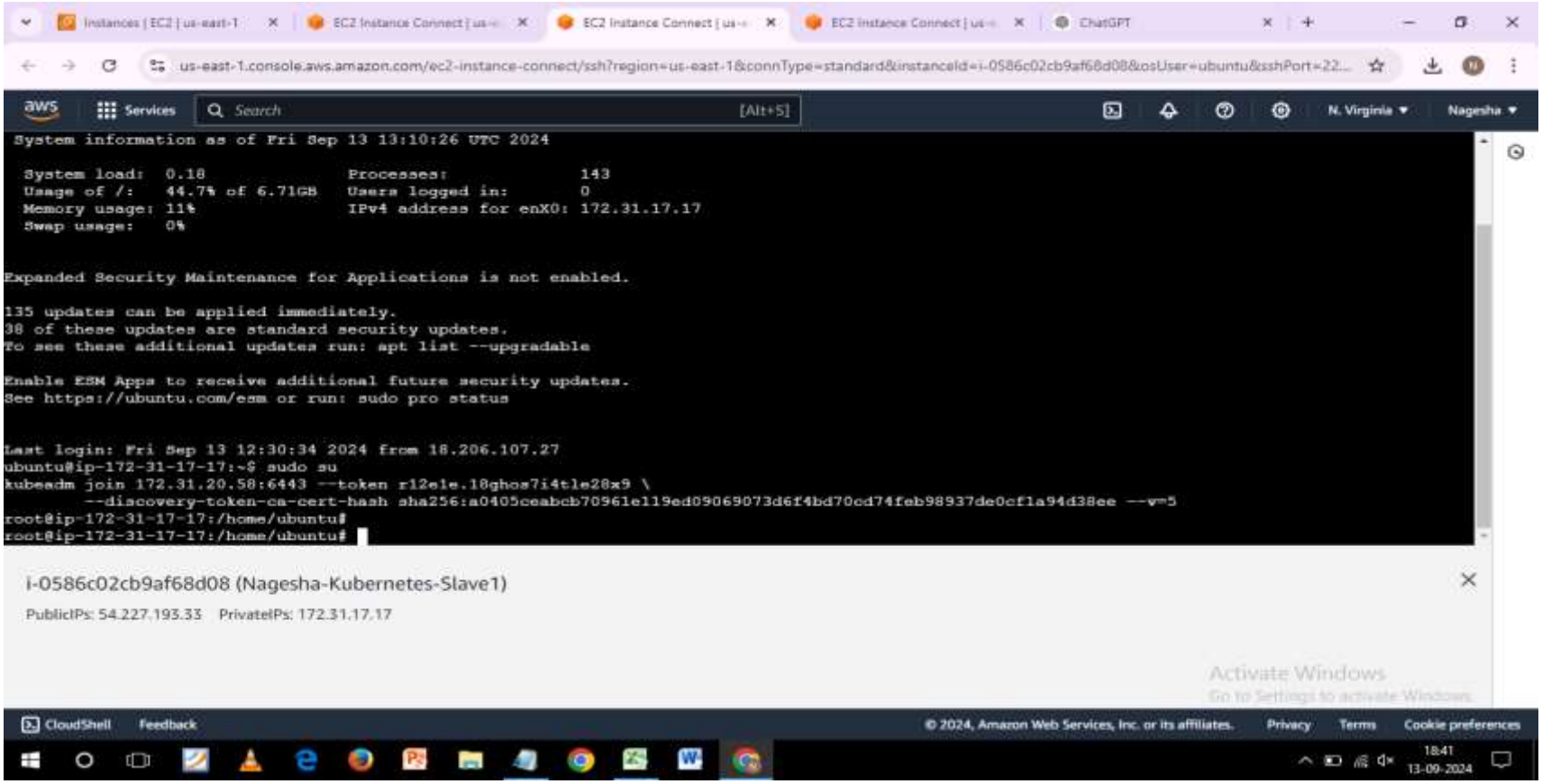
18:17
13-09-2024


Instances | EC2 | us-east-1
EC2 Instance Connect | us-e
EC2 Instance Connect | us-e
EC2 Instance Connect | us-e
ChatGPT
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0586c02cb9af68d08&osUser=ubuntu&sshPort=22...
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
System information as of Fri Sep 13 13:10:26 UTC 2024
System load: 0.18 Processes: 143
Usage of /: 44.7% of 6.71GB Users logged in: 0
Memory usage: 11% IPv4 address for enX0: 172.31.17.17
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
135 updates can be applied immediately.
38 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
Last login: Fri Sep 13 12:30:34 2024 from 18.206.107.27
ubuntu@ip-172-31-17-17:~$ sudo su
kubeadm join 172.31.20.58:6443 --token r12ele.10ghos7i4tle28x9 \
--discovery-token-ca-cert-hash sha256:a0405ceabcb70961e119ed09069073d6f4bd70cd74feb98937de0cf1a94d38ee --v=5
root@ip-172-31-17-17:/home/ubuntu#
root@ip-172-31-17-17:/home/ubuntu#
i-0586c02cb9af68d08 (Nagesha-Kubernetes-Slave1)
PublicIPs: 54.227.193.33 PrivateIPs: 172.31.17.17
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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Privacy
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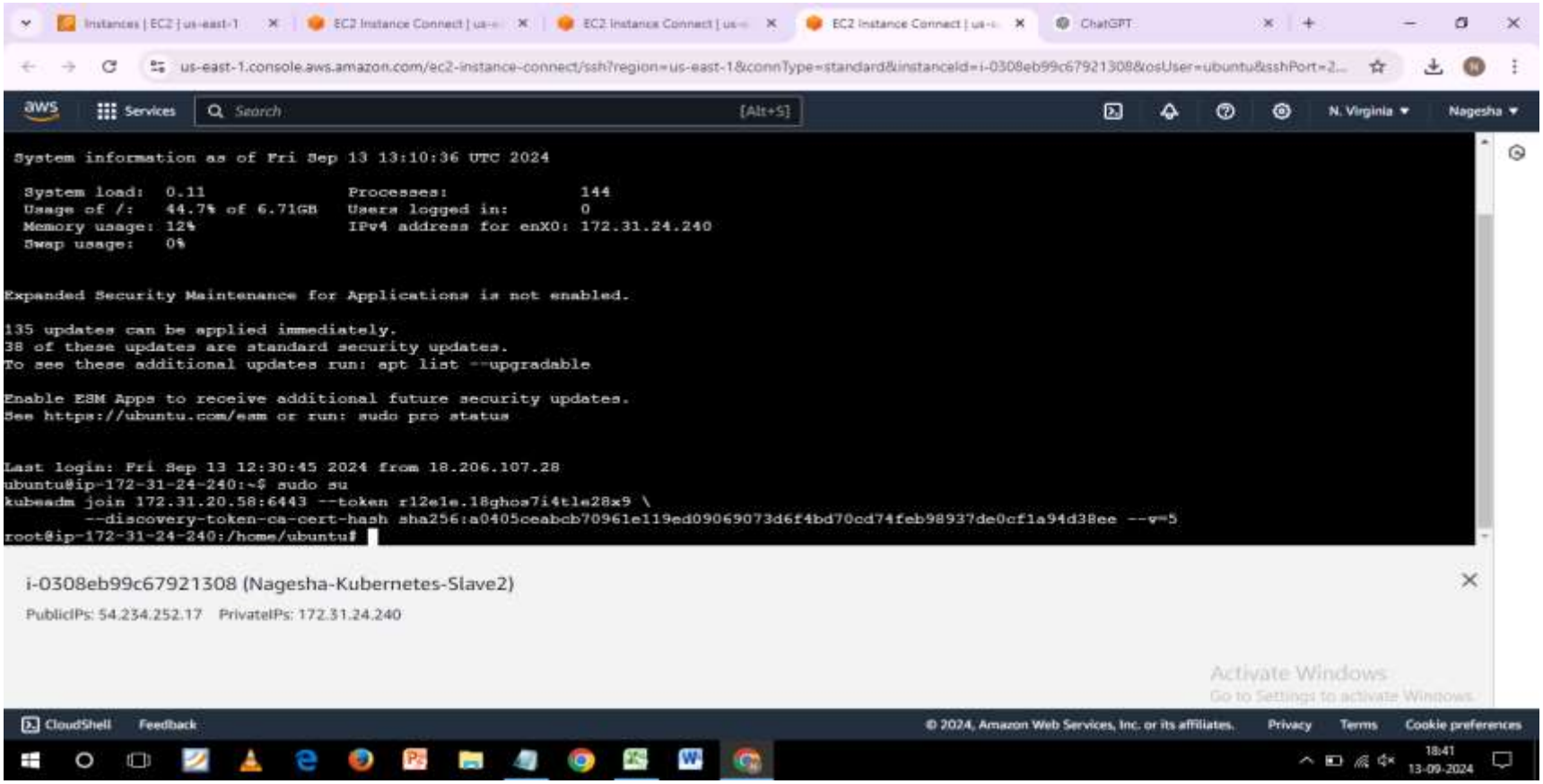
Cookie preferences
18:41
13-09-2024


Instances | EC2 | us-east-1
EC2 Instance Connect | us-e
EC2 Instance Connect | us-e
EC2 Instance Connect | us-e
ChatGPT
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0308eb99c67921308&osUser=ubuntu&sshPort=2...
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
System information as of Fri Sep 13 13:10:36 UTC 2024
System load: 0.11
Usage of /: 44.7% of 6.71GB
Memory usage: 12%
Swap usage: 0%
Processes: 144
Users logged in: 0
IPv4 address for enX0: 172.31.24.240
Expanded Security Maintenance for Applications is not enabled.
135 updates can be applied immediately.
38 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
Last login: Fri Sep 13 12:30:45 2024 from 18.206.107.28
ubuntu@ip-172-31-24-240:~$ sudo su
kubeadm join 172.31.20.58:6443 --token r12e1e.18ghoa7i4tle28x9 \
--discovery-token-ca-cert-hash sha256:a0405ceabcb70961e119ed09069073d6f4bd70cd74feb98937de0cf1a94d38ee --v=5
root@ip-172-31-24-240:/home/ubuntu#
i-0308eb99c67921308 (Nagesha-Kubernetes-Slave2)
PublicIPs: 54.234.252.17 PrivateIPs: 172.31.24.240
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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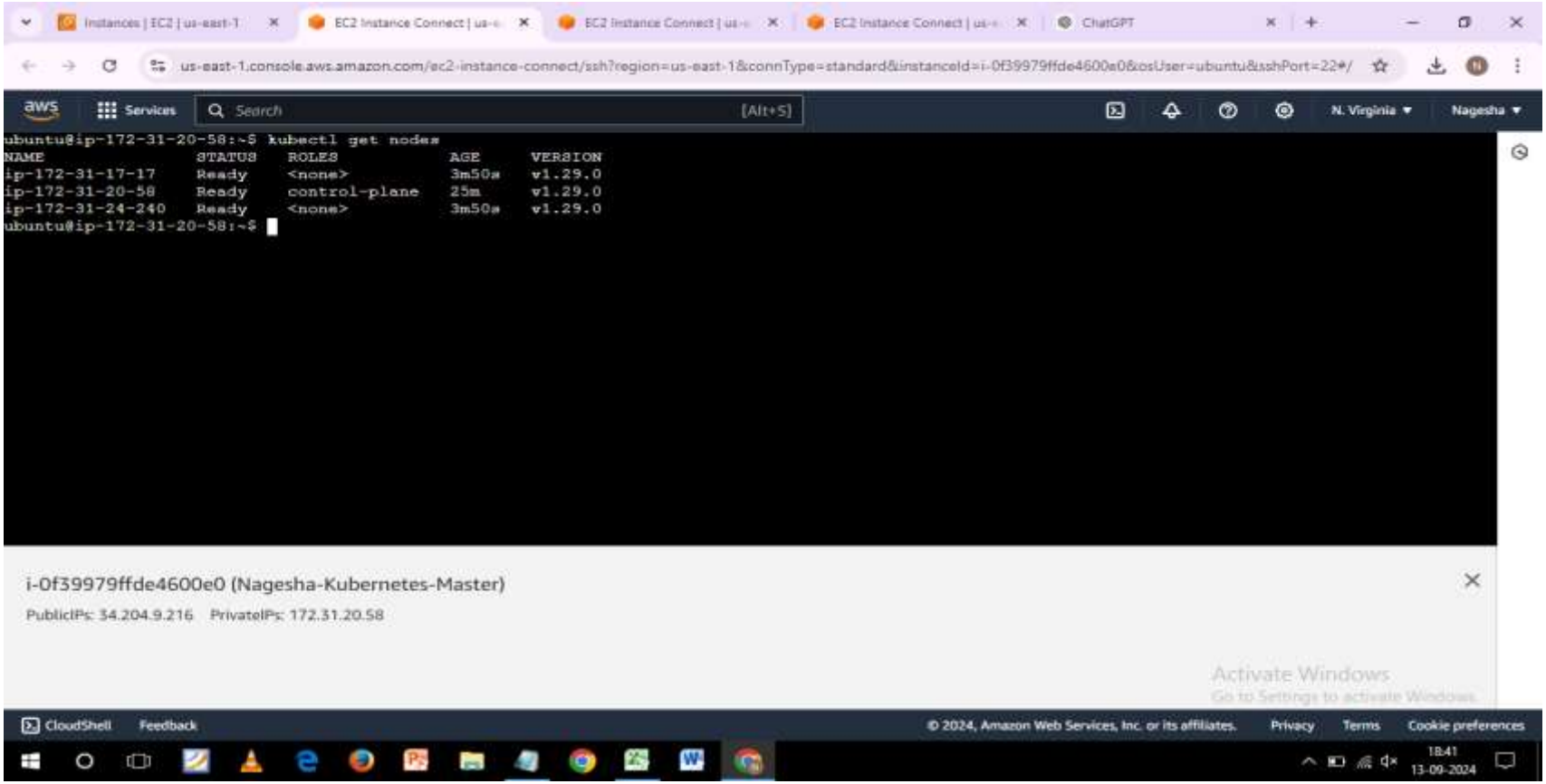
18:41
13-09-2024


Instances | EC2 | us-east-1
EC2 Instance Connect | us-e
EC2 Instance Connect | us-e
EC2 Instance Connect | us-e
ChatGPT
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f39979ffde4600e0&osUser=ubuntu&sshPort=22#/
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
ubuntu@ip-172-31-20-58:~$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
ip-172-31-17-17 Ready <none> 3m50s v1.29.0
ip-172-31-20-58 Ready control-plane 25m v1.29.0
ip-172-31-24-240 Ready <none> 3m50s v1.29.0
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
PublicIPs: 34.204.9.216 PrivateIPs: 172.31.20.58
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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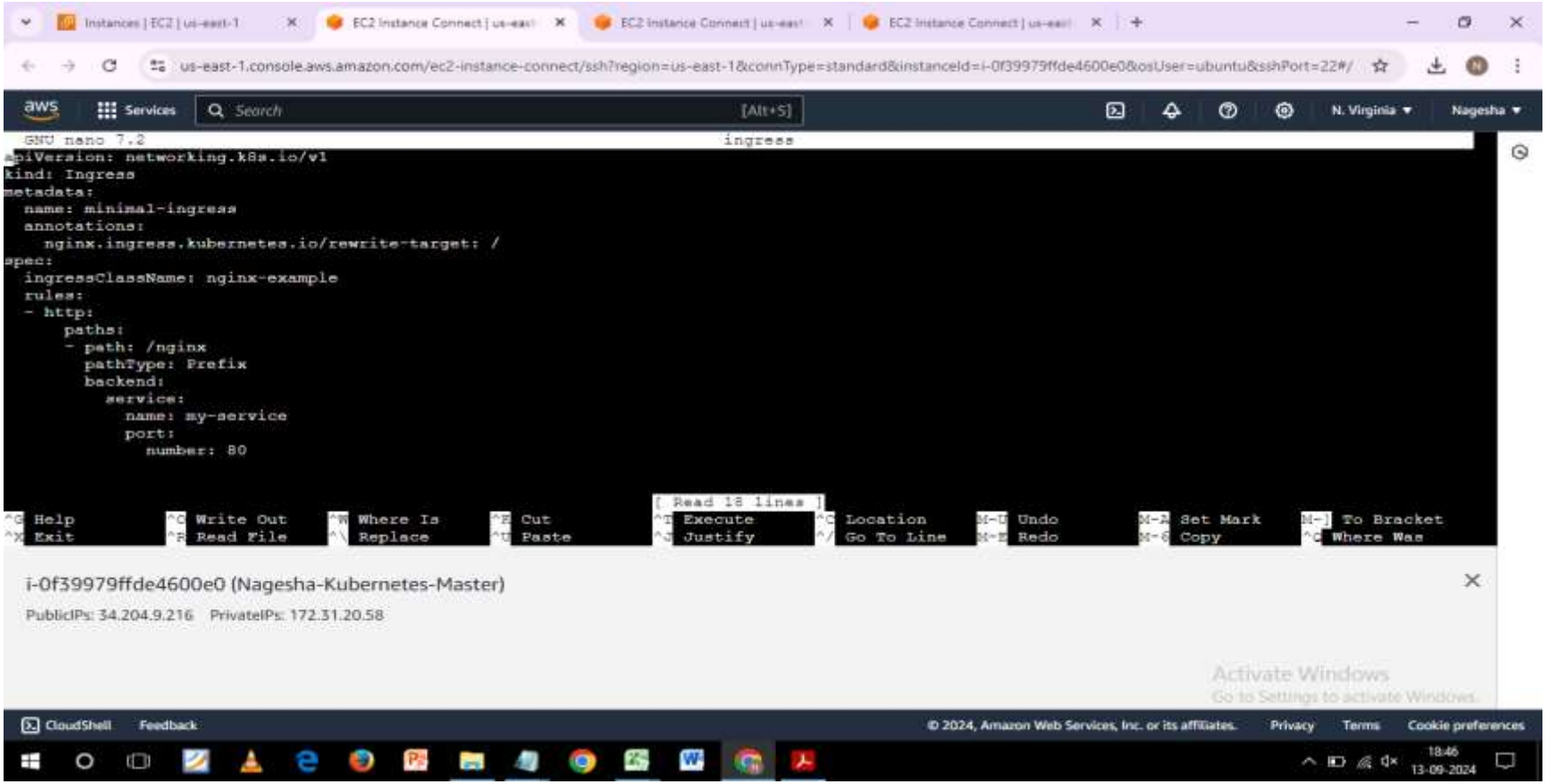
18:41
13-09-2024


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f39979ffde4600e0&osUser=ubuntu&sshPort=22#/
Services
Search
[Alt+S]
N. Virginia
Nagesha
GNU nano 7.2
ingress
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
name: minimal-ingress
annotations:
nginx.ingress.kubernetes.io/rewrite-target: /
spec:
ingressClassName: nginx-example
rules:
- http:
paths:
- path: /nginx
pathType: Prefix
backend:
service:
name: my-service
port:
number: 80
[Read 18 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
PublicIPs: 34.204.9.216 PrivateIPs: 172.31.20.58
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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Privacy
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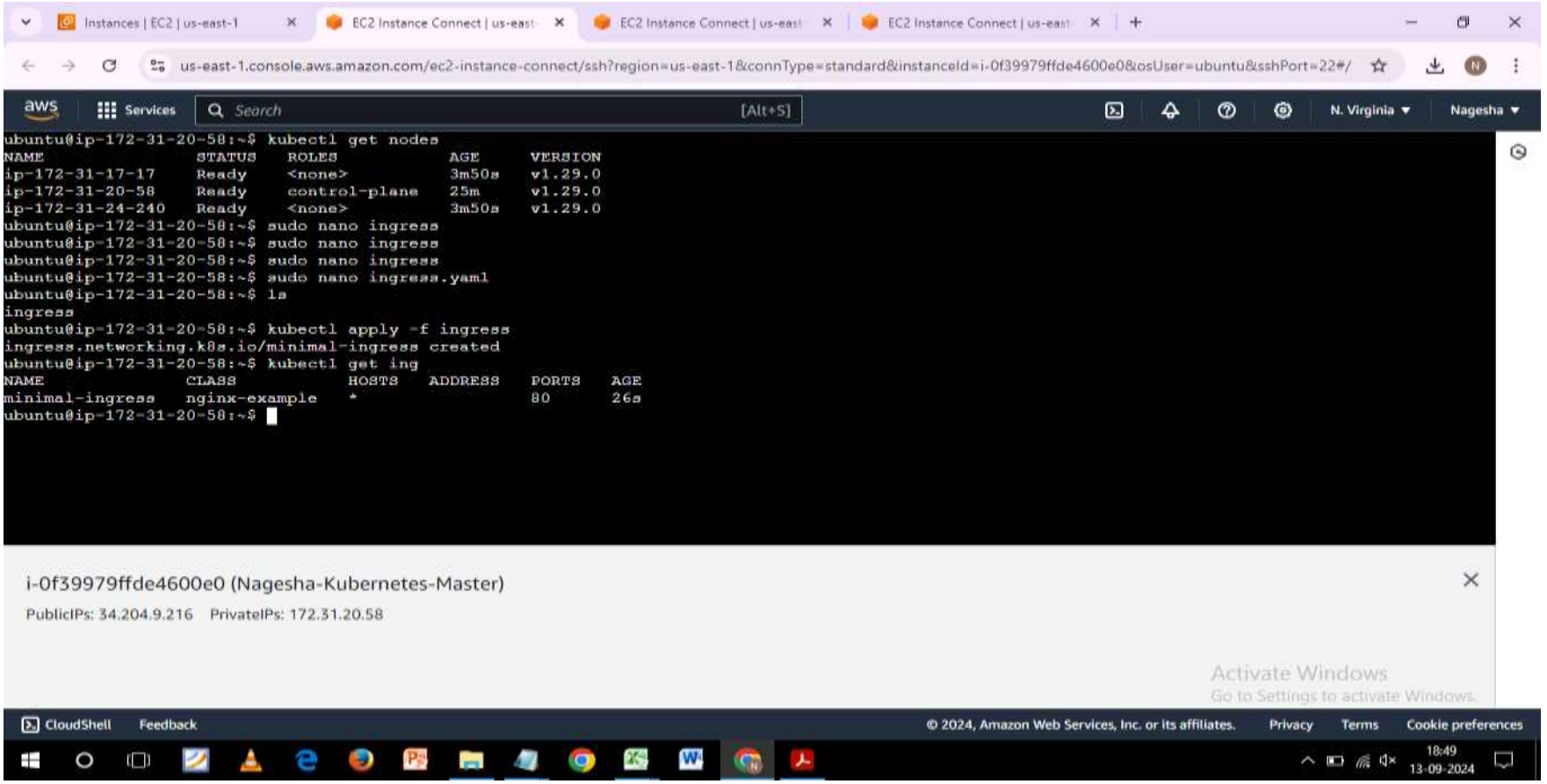
Cookie preferences
18:46
13-09-2024


Instances | EC2 | us-east-1
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
EC2 Instance Connect | us-east
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f39979ffde4600e0&osUser=ubuntu&sshPort=22#/
aws
Services
Search
[Alt+S]
N. Virginia
Nagesha
ubuntu@ip-172-31-20-58:~$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
ip-172-31-17-17 Ready <none> 3m50s v1.29.0
ip-172-31-20-58 Ready control-plane 25m v1.29.0
ip-172-31-24-240 Ready <none> 3m50s v1.29.0
ubuntu@ip-172-31-20-58:~$ sudo nano ingress
ubuntu@ip-172-31-20-58:~$ sudo nano ingress
ubuntu@ip-172-31-20-58:~$ sudo nano ingress
ubuntu@ip-172-31-20-58:~$ sudo nano ingress.yaml
ubuntu@ip-172-31-20-58:~$ ls
ingress
ubuntu@ip-172-31-20-58:~$ kubectl apply -f ingress
ingress.networking.k8s.io/minimal-ingress created
ubuntu@ip-172-31-20-58:~$ kubectl get ing
NAME CLASS HOSTS ADDRESS PORTS AGE
minimal-ingress nginx-example * 80 26s
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
PublicIPs: 34.204.9.216 PrivateIPs: 172.31.20.58
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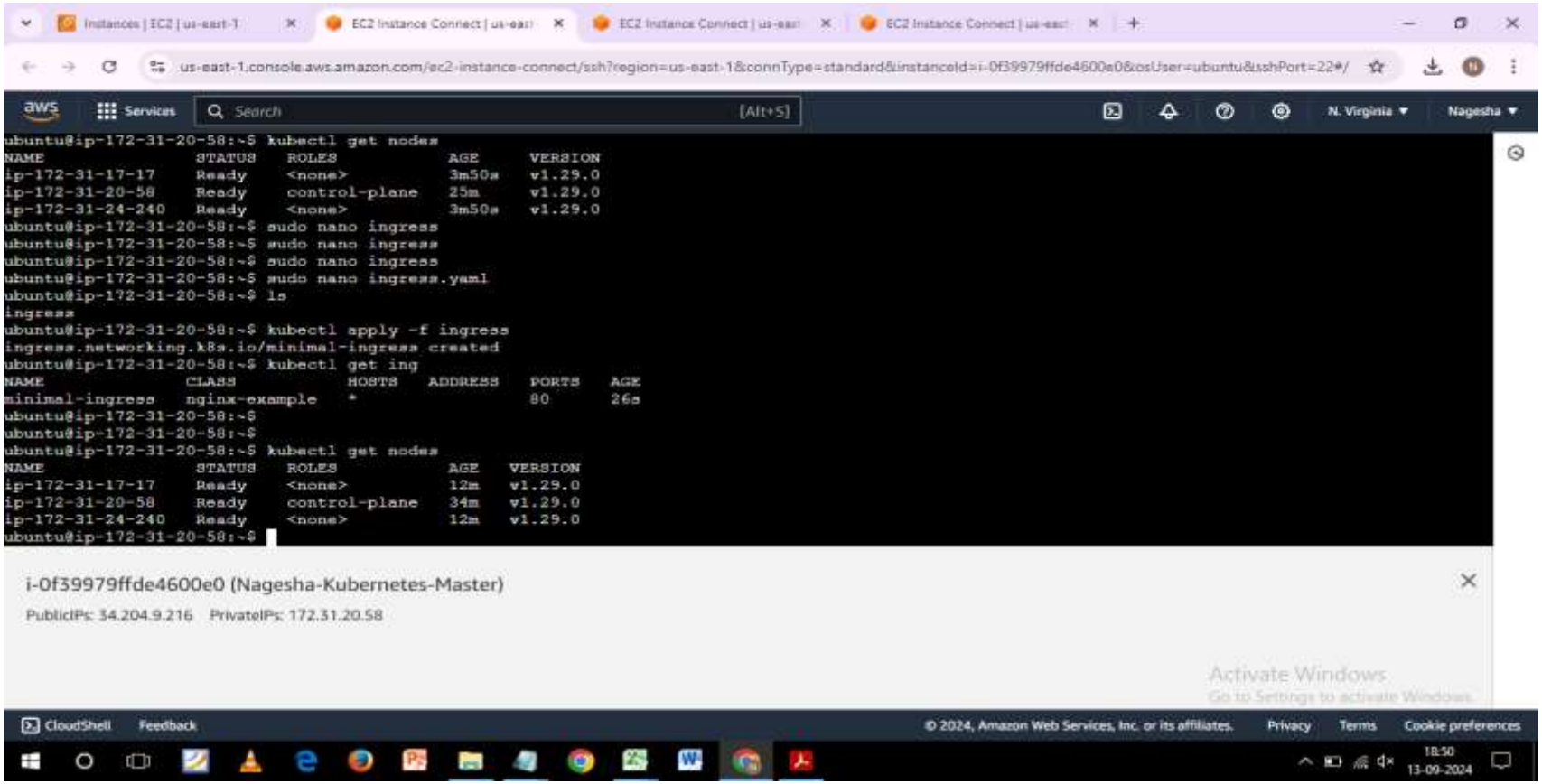
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f39979ffde4600e0&osUser=ubuntu&sshPort=22#/
Services
Search
[Alt+S]
N. Virginia
Nagesha
ubuntu@ip-172-31-20-58:~$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
ip-172-31-17-17 Ready <none> 3m50s v1.29.0
ip-172-31-20-58 Ready control-plane 25m v1.29.0
ip-172-31-24-240 Ready <none> 3m50s v1.29.0
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minimal-ingress nginx-example * 80 26s
ubuntu@ip-172-31-20-58:~$
ubuntu@ip-172-31-20-58:~$
ubuntu@ip-172-31-20-58:~$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
ip-172-31-17-17 Ready <none> 12m v1.29.0
ip-172-31-20-58 Ready control-plane 34m v1.29.0
ip-172-31-24-240 Ready <none> 12m v1.29.0
ubuntu@ip-172-31-20-58:~$
i-0f39979ffde4600e0 (Nagesha-Kubernetes-Master)
PublicIPs: 34.204.9.216 PrivateIPs: 172.31.20.58
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Kubernetes Commands

installing kubernetes cluster

 # Kubeadm Installation Guide

This guide outlines the steps needed to set up a Kubernetes cluster using kubeadm.

Pre-requisites

Ubuntu OS

t2.medium instance type or higher

AWS Setup

Make sure all traffic is allowed on all instance

Execute on Both "Master" & "Worker Node"

Run the following commands on both the master and worker nodes to prepare them for kubeadm.

==========

 # disable swap

sudo swapoff -a

 # Create the .conf file to load the modules at bootup

cat <<EOF | sudo tee /etc/modules-load.d/k8s.conf

overlay

br_netfilter

EOF

sudo modprobe overlay

sudo modprobe br_netfilter

 # sysctl params required by setup, params persist across reboots

cat <<EOF | sudo tee /etc/sysctl.d/k8s.conf

net.bridge.bridge-nf-call-iptables = 1

net.bridge.bridge-nf-call-ip6tables = 1

```
net.ipv4.ip_forward                 = 1
EOF

# Apply sysctl params without reboot
sudo sysctl --system

## Install CRIO Runtime
sudo apt-get update -y
sudo apt-get install -y software-properties-common curl apt-transport-https ca-certificates gpg

sudo curl -fsSL https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb/Release.key | sudo gpg --dearmor -o /etc/apt/keyrings/cri-o-apt-keyring.gpg
echo "deb [signed-by=/etc/apt/keyrings/cri-o-apt-keyring.gpg] https://pkgs.k8s.io/addons:/cri-o:/prerelease:/main/deb/ /" | sudo tee /etc/apt/sources.list.d/cri-o.list

sudo apt-get update -y
sudo apt-get install -y cri-o

sudo systemctl daemon-reload
sudo systemctl enable crio --now
sudo systemctl start crio.service

echo "CRI runtime installed successfully"

# Add Kubernetes APT repository and install required packages
curl -fsSL https://pkgs.k8s.io/core:/stable:/v1.29/deb/Release.key | sudo gpg --dearmor -o /etc/apt/keyrings/kubernetes-apt-keyring.gpg
echo 'deb [signed-by=/etc/apt/keyrings/kubernetes-apt-keyring.gpg] https://pkgs.k8s.io/core:/stable:/v1.29/deb/ /' | sudo tee /etc/apt/sources.list.d/kubernetes.list

sudo apt-get update -y
sudo apt-get install -y kubelet="1.29.0-*" kubectl="1.29.0-*" kubeadm="1.29.0-*"
sudo apt-get update -y
sudo apt-get install -y jq

sudo systemctl enable --now kubelet
```

sudo systemctl start kubelet

Execute ONLY on "Master Node"

sudo kubeadm config images pull

sudo kubeadm init

mkdir -p "$HOME"/.kube
sudo cp -i /etc/kubernetes/admin.conf "$HOME"/.kube/config
sudo chown "$(id -u)":"$(id -g)" "$HOME"/.kube/config

 # Network Plugin = calico

kubectl apply -f https://raw.githubusercontent.com/projectcalico/calico/master/manifests/calico.yaml

---

Execute on ALL of your Worker Node's

1. Perform pre-flight checks

sudo kubeadm reset pre-flight checks

2. Paste the join command you got from the master node and append `--v=5` at the end but first use sudo su command to become root (avoid using sudo your-token).

sudo su
<your-token --v=5>

sudo su
**kubeadm join 172.31.20.58:6443 --token r12e1e.18ghos7i4tle28x9 **
--discovery-token-ca-cert-hash sha256:a0405ceabcb70961e119ed09069073d6f4bd70cd74feb98937de0cf1a94d38ee --v=5

Verify Cluster Connection

****On Master Node:****

kubectl get nodes

sudo nano ingress

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: minimal-ingress
  annotations:
    nginx.ingress.kubernetes.io/rewrite-target: /
spec:
  ingressClassName: nginx-example
  rules:
  - http:
      paths:
      - path: /nginx
        pathType: Prefix
        backend:
          service:
            name: my-service
            port:
              number: 80
```

sudo nano ingress

edit the script mention paths
  path:/nginx
mention service:
  name: my-service

kubectl apply -f ingress.yaml

ingress.networking.k8s.io/minimal-ingress created

kubectl get ing

kubectl get nodes