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**Task:** Deploying a web server in Linux instance

## Solution

**Step-1.** Creating a Linux instance using AMI :Ubuntu Server 18.04 LTS (HVM)

The screenshot displays the AWS Management Console interface for a specific EC2 instance. The top navigation bar shows the AWS logo, 'Services', 'Resource Groups', and a search bar. The left sidebar contains a navigation menu with categories like 'New EC2 Experience', 'EC2 Dashboard', 'Events', 'Tags', 'Limits', 'Instances', 'Images', and 'Elastic Block Store'. The main content area shows the details for an instance named 'ubuntu' with ID 'i-0c468c3e0fbc9e010'. The instance is in a 'running' state, using the 't2.micro' instance type in the 'us-east-2b' availability zone. The public DNS (IPv4) is 'ec2-3-14-29-54.us-east-2.compute.amazonaws.com' and the public IP is '3.14.29.54'. The description tab is selected, showing various attributes like Instance ID, Instance state, Instance type, Finding, Private DNS, Private IPs, Secondary private IPs, VPC ID, Subnet ID, Network interfaces, IAM role, Key pair name, Owner, Public DNS (IPv4), IPv4 Public IP, IPv6 IPs, Elastic IPs, Availability zone, Security groups, Scheduled events, AMI ID, Platform details, Usage operation, Source/dest. check, T2/T3 Unlimited, and EBS-optimized.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public
ubuntu	i-0c468c3e0fbc9e010	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-3-14-29-54.us-east-2.compute.amazonaws.com	3.14.29.54

Instance: i-0c468c3e0fbc9e010 (ubuntu) Public DNS: ec2-3-14-29-54.us-east-2.compute.amazonaws.com

Description		Status Checks	Monitoring	Tags
Instance ID	i-0c468c3e0fbc9e010	Public DNS (IPv4)	ec2-3-14-29-54.us-east-2.compute.amazonaws.com	
Instance state	running	IPv4 Public IP	3.14.29.54	
Instance type	t2.micro	IPv6 IPs	-	
Finding	Opt-in to AWS Compute Optimizer for recommendations. <a href="#">Learn more</a>	Elastic IPs		
Private DNS	ip-172-31-20-206.us-east-2.compute.internal	Availability zone	us-east-2b	
Private IPs	172.31.20.206	Security groups	launch-wizard-2, view inbound rules, view outbound rules	
Secondary private IPs		Scheduled events	No scheduled events	
VPC ID	vpc-b35881d8	AMI ID	ubuntu/images/hvm-ssd/ubuntu-bionic-18.04-amd64-server-20200810 (ami-0bbe28eb2173f6167)	
Subnet ID	subnet-215d635b	Platform details	Linux/UNIX	
Network interfaces	eth0	Usage operation	RunInstances	
IAM role	-	Source/dest. check	True	
Key pair name	Letsubuntu	T2/T3 Unlimited	Disabled	
Owner	413007581416	EBS-optimized	False	

**Step-2.** Launching the Linux instance using terminal as I am on Mac OS and Launch the Ubuntu instance using SSH

```

abhi@ABHIs-Air Downloads % chmod 400 Letsubuntu.pem
abhi@ABHIs-Air Downloads % ssh -i "Letsubuntu.pem" ubuntu@ec2-3-14-29-54.us-east-2.compute.amazonaws.com
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.3.0-1032-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Thu Aug 20 05:40:56 UTC 2020

System load:  0.0           Processes:            92
Usage of /:   16.7% of 7.69GB Users logged in:        0
Memory usage: 18%          IP address for eth0: 172.31.20.206
Swap usage:   0%

12 packages can be updated.
5 updates are security updates.

Last login: Thu Aug 20 05:20:50 2020 from 157.35.248.158
ubuntu@ip-172-31-20-206:~$ sudo apt-get -y update
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Hit:4 http://security.ubuntu.com/ubuntu bionic-security InRelease
Fetched 163 kB in 0s (453 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-20-206:~$ sudo apt-get -y install nginx
Reading package lists... Done
Building dependency tree
Reading state information... Done
nginx is already the newest version (1.14.0-0ubuntu1.7).
0 upgraded, 0 newly installed, 0 to remove and 8 not upgraded.
ubuntu@ip-172-31-20-206:~$

```

### Step-3. Verifying successful installation of nginx Web Server

