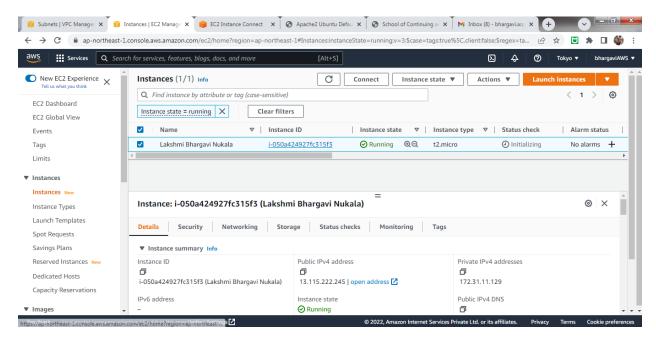
# **EC2**:

1. Create an instance



2. Extra Volume of 1GB created

Volumes   EC2 Management Con	× (+			and the second sec	$\mathbf{\vee}$	
ightarrow C $($ ap-northeast	1.console.aws.amazon.com/ec2/home?region=ap-northeast-1	1#Volumes:			🖻 🌣 💟 🛸	□ 🍈
WS Services Q Ser	rrch for services, features, blogs, docs, and more	[Alt+S]		D 4	🕐 🛛 Tokyo 🔻	bhargaviAWS
New EC2 Experience	Successfully created volume vol-0f77b80fbe21825c	<u>6</u> .				×
Tell us what you think	④ You can now create Amazon Data Lifecycle Manage	er policies to automate sna	pshot management direct	ly from this screen. Select	t the volumes to back up,	and $\times$
EC2 Dashboard	then choose Actions, Create snapshot lifecycle po	licy. For more information	, see the Knowledge Cent	er article.		
EC2 Global View	Volumes (1/2)			CA	ctions  Create	volume
Events						
Tags	Q Search				< 1	> @
Limits	■ Name ▼ Volume ID	♥ Type ♥ Size	v IOPS	▼ Throughput ⊽	Snapshot $\nabla$	Created
Instances	Extra Volume vol-0f77b80fbe21825c6	gp2 1 G	B 100	-	-	2022/10
Instances New	vol-05d19e03a4aeabb26	5 gp2 8 G	B 100	-	snap-03f58d3	2022/10
nstance Types	<					
Launch Templates						

#### 3. Attaching Volume to an instance

👔 Attac	h volume   EC2 Managemen × +	and Manual S	-	
$\leftarrow \   \rightarrow $	C ap-northeast-1.console.aws.amazon.com/ec2/home?region=ap-northeast-1#Atta	achVolume:volun	neId=vol-00ba4fbad387	745da3
aws	Services Q Search for services, features, blogs, docs, and more	[Alt+S]		D
=	Attach volume Info Attach a volume to an instance to use it as you would a regular physical hard disk drive.			
	Basic details			
	Volume ID  Volume ID  Vol-00ba4fbad38745da3 (Extra Volume)  Availability Zone ap-northeast-1c  Instance Info  Q  i-050a424927fc315f3			
	(Lakshmi Bhargavi) (running)	Cancel	Attach volume	

#### 4. Creating a snapshot from the above created volume

📔 Cre	ate snapshot   EC2 Managem X +				
$\leftarrow \rightarrow$	C 🔒 ap-northeast-1.console.aws.amazon.com/ec2/home?region=ap-northeast-1#CreateSnapshot:		ß	*	* 🖬 🍏 E
aws	Services Q. Search for services, features, blogs, docs, and more [Alt+S]	Ð	\$ Ø	Tokyo 🔻	bhargaviAWS 🔻
	****       Q. Search for services, teatures, blogs, docs, and more       [At*5]         Create snapshot Info         Create a point-in-time snapshot of an EBS volume and use it as a baseline for new volumes or for data backup. You can create snapshots from an individual volume, or you can create multi-volume snapshots from all of the volumes attached to an instance.         Snapshot settings		4 0	Τοκγο 🔻	i i i i i i i i i i i i i i i i i i i
	Extra Volume       vol-00ba4fbad38745da3       Description       Add a description for your snapshot.       Creating a snapshot from Extra Volume       255 characters maximum       Encryption Info				

### 5. Created Snapshot

Services Q Se	arch for services	s, features, blogs,	docs, and me	ore	[Alt+S]				Ð 4	0	Tokyo 🔻	bhargaviAWS
New EC2 Experience X		sfully created sr	apshot <u>snap-</u>	-0ab0d49e457fb7b1c.								×
Tell us what you think	Snapsh	nots (2)						C Z Recyc	le Bin A	ctions <b>v</b>	Create	snapshot
C2 Dashboard	Owned	by me 🔻 🛛 📿	Search								<	1 > @
C2 Global View			Cocaren								`	
vents	Nar Nar	пе	$\nabla$	Snapshot ID	$\bigtriangledown$	Size	$\nabla$	Description $\nabla$	Storage V	7 Snaps	hot s ⊽	Started
ags	Sna	pshot from Extr	a Volume	snap-0ab0d49e457fb	7b1c	1 GiB		Creating a snap	Standard	⊘ Cor	npleted	2022/10/
imits	<b>—</b> –			snap-0f832ffb668b15	d3b	8 GiB		Created by Crea	Standard	⊘ Cor	npleted	2022/10/
	•											
nstances												
nstances New												
nstance Types												
aunch Templates												
pot Requests												

#### 6. Created an AMI from Apache-PHP instance:

	× (+)				
	t-1.console.aws.amazon.com/ec2/hom arch for services, features, blogs, docs		es:visibility=owned-by-me;v=3;\$case= [Alt+S]	tags:false%5C,client:false;\$regex=tag ビ	Tokyo 🔻 💧 bhargaviAV
New EC2 Experience X	Amazon Machine Imag	es (AMIs) (1/1) Info	Actions V Launch insta	nce from AMI	
C2 Dashboard	Owned by me 🔻 🔍 Fin	nd AMI by attribute or tag			< 1 > @
C2 Global View vents	✓ Name ▼	AMI ID	▼   AMI name	▼   Source	⊽   Owner
igs	AMI of ApachePHP	ami-0592e77a438c8f8ac	ApachePHP-Image	054032037173/ApachePHP-	-Image 054032
mits	•				
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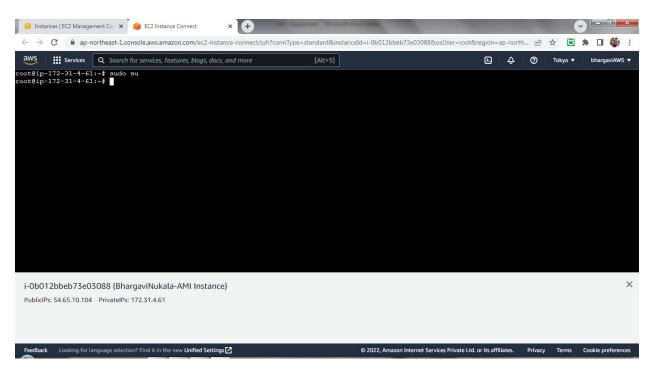
7. Launching an instance from AMI:

	arch for services, features, blogs, docs, a	and more	[Alt+S]	∑ 🗘 ⑦ Tokyo ▼
Name and tags	i Info			▼ Summary
Name BhargaviNukala-Al	MI Instance		Add additional tags	Number of instances Info
An AMI is a templat	and OS Images (Amazon Mac te that contains the software configuration ( se. Search or Browse for AMIs if you don't see	operating system, application ser		Software Image (AMI) ApachePHP-Image ami-0592e77a438:8f8ac Virtual server type (instance type)
Q Search our t	alog Recents My AMIs	ion and OS images Quick Start		t2.micro Firewall (security group) New security group Storage (volumes)
	e Image (AMI)		Q	1 volume(s) - 8 GiB

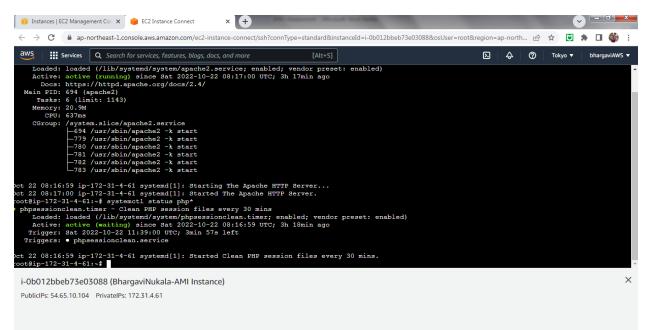
### 8. Instance availability

Services Q Se	arch for services, features, blogs, docs, and more [Alt+S]
New EC2 Experience	▲ Instances (2) Info       C     Connect     Instance state ▼     Actions ▼     Launch instances
	Q Find instance by attribute or tag (case-sensitive) < 1 > 🧕
EC2 Dashboard EC2 Global View	Instance state = running X Clear filters
Events	Name       V       Instance ID       Instance state       V       Instance type       V       Status check       Alarm status
Tags	□ BhargaviNukala-AMI Instance i-0b012bbeb73e03088 ⊘Running @Q t2.micro ⊘2/2 checks passed No alarms +
Limits	□ Lakshmi Bhargavi Nukala i-050a424927fc315f3 ⊘ Running QQ t2.micro ⊘2/2 checks passed No alarms +
Instances New	
Instances Instances New	
Launch Templates	Select an instance
Spot Requests	
Savings Plans	
Reserved Instances New	
Dedicated Hosts	
Capacity Reservations	
mages	
AMIS New	

#### 9. Connected AMI instance from Console



#### 10. Apache and PHP running on AMI instance



11. Editing the IN-Bound Rules of Security Group to give access to HTTP port no 80

← → C ■ ap-northeast-1.c	console.aws.amazon.com/ec2/hor	* + me?region=ap-r	ortheast-1#Modi	ifyInboundSecurityGroupRules:securityGroup	Id=sg-0234aedd829b5263d	6 ☆ 💟	* 🛯 🍏 :
aws Services Q Search	n for services, features, blogs, doo	s, and more		[Alt+S]	<b>ک</b> \	🕐 🛛 Tokyo 🔻	bhargaviAWS 🔻
EC2 > Security Groups > so Edit inbound rul Inbound rules control the incom			Edit inbound rul	es			٥
Security group rule ID	Type Info	Protocol Info	Port range	Source Info	Description - optional		
sgr-0be8a3fcf4a099dc8	SSH 🔻	ТСР	22	Custom ▼ Q 0.0.0.0/0 ×		Delet e	
-	HTTP <b>V</b>	ТСР	80	Anywh ▼ Q		Delet e	]
Add rule							
				(	Cancel Preview changes	Save rul	es

#### 12. Accessing the new AMI instance from Browser

🧃 Instances   EC2 Management Cor 🗙 📔 🥮	EC2 Instance Connect × S Apache2 Ubuntu Default Page: It × +			Y		
← → C ▲ Not secure   54.65.10.	104	Ê	☆			:
	Apache2 Default Page					•
	This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should <b>replace this file</b> (located at /var/www/html/index.html) before continuing to operate your HTTP server. If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.					
	Configuration Overview					
	Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is <b>fully</b> <b>documented in /usr/share/doc/apache2/README.Debian.gz</b> . Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the <b>manual</b> if the apache2-doc package was installed on this server.					
	The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:					
	/etc/apache2/ / apache2.conf / mods-enabled /					Ŧ

## **Load Balancer:**

1. Create a new Security Group with ports 22 and 80 open required to create a load balancer

Services Q S	earch for services, fe	eatures, blogs, docs, and more	e [/	Alt+S]				2	<b>\$</b>	0	Tokyo 🔻	- b	harga
Security group name In													
ALBSG				1									
Name cannot be edited after	r creation.												
Description Info													
ALBSG				1									
12000													
VPC Info				_									
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2. Create a new Target Group for the instances to be connected on load balancer. Here we specify all parameters like Healthy score, Unhealthy score, timeout etc.

🔋 Load balancers   EC2 Managerr 🗙 🎁	Target groups   EC2 Managemi 🗙 🥚 EC2 Instance Connec	t X G permission denied (publickey X	🕻 📄 👔 linux - EC2 ssh Permission den	× +	) (	✓ - □ ×
$\leftrightarrow$ $\rightarrow$ C $$ ap-northeast-1.cons	ole.aws.amazon.com/ec2/home?region=ap-northeast-	L#CreateTargetGroup:protocol=HTTP;vpc=vpc-0	04973299863a13d48	₽ ☆	* ا	≕ 🛯 🍏 :
aws Services Q Search for	services, features, blogs, docs, and more	[Alt+S]	D 4	0	Tokyo 🔻	bhargaviAWS 🔻
	Health check protocol         HTTP         Health check path         Use the default path of */* to ping the root, or specify a c         /         Up to 1024 characters allowed.         ✓ Advanced health check settings         Port         The port the load balancer uses when performing health         Load balancer, but you can specify a different port.         ● Traffic port         ● Override         Healthy threshold         The number of consecutive health checks successes requite successes requites a successes requires a successes requites a successes requires a successes successes requires a successes requires a	ustom path if preferred.	Restore defaults			
	Unhealthy threshold The number of consecutive health check failures required 2-10	before considering a target unhealthy.				Ţ
Feedback Looking for language selection	' Find it in the new Unified Settings 🔼	© 2022, Amazon Internet	Services Private Ltd. or its affiliates.	Privacy	Terms	Cookie preferences

3. Create a load balancer with above created security group ALBSG and target group ALB-TG

C 🔒 ap-northeast-1.con				
Services Q Search for	or services, features, blogs, docs, and more	[Alt+S]	ک	🔶 🕐 Tokyo 🔻 bharg
Summary Review and confirm your configuration	ons. Estimate cost 🔀			
Basic configuration Edit ALB-BhargaviNukala • Internet-facing • IPv4	Security groups Edit • default sg-068aecf87bfcac578 🔀 • ALBSG sg-01806f256413e07e9 🔀	Network mapping Edit VPC vpc-04973299863a13d48 2 • ap-northeast-1a subnet-0b9ff0cb9033b9270 2 • ap-northeast-1c subnet-04800d57321a00b2 2 • ap-northeast-1d subnet-05b503384a9c884b 2	Listeners and routing Edit <ul> <li>HTTP:80 defaults to <ul> <li>ALB-TG</li> </ul> </li> </ul>	
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#### 5. Connect to Load Balancer from WebPage



6. Try to access phpinfo.php page from the web and we can see that two IP addresses 172.31.4.61 and 172.31.12.150 are appearing alternatively

PHP Version 8.1.2		php
System	Linux ip-172-31-12-150 5.15.0-1019-aws #23-Ubuntu SMP Wed Aug 17 18:33:13 UTC	2022 x86_64
Build Date	Aug 8 2022 07:28:23	
Build System	Linux	
Server API	Apache 2.0 Handler	
Virtual Directory Support	disabled	
Configuration File (php.ini) Path	/etc/php/8.1/apache2	
Loaded Configuration File	/etc/php/8.1/apache2/php.ini	
Scan this dir for additional .ini files	/etc/php/8.1/apache2/conf.d	
Additional .ini files parsed	Ietcipholis 1.tapache2.cond.d10-opcache im, letcipholis, 1.tapache2.cond.d10-bpdo im, Ietcipholis 1.tapache2.cond.d20-actianii, letcipholis, 1.tapache2.cond.d20-cope im, Ietcipholis 1.tapache2.cond.d20-actianii, letcipholis, 1.tapache2.cond.d20-copetaxi filiento im, Ietcipholis, 1.tapache2.cond.d20-com im, Ietcipholis, 1.tapache2.cond.d20-petaxi Ietcipholis, 1.tapache2.cond.d20-com im, Ietcipholis, 1.tapache2.cond.d20-petaxi Ietcipholis, 1.tapache2.cond.d20-com im, Ietcipholis, 1.tapache2.cond.d20-petaxi Ietcipholis, 1.tapache2.cond.d20-com im, Ietcipholis, 1.tapache2.cond.d20-petaxi Ietcipholis, 1.tapache2.cond.d20-com im, Ietcipholis, 1.tapache2.cond.d20-systems, Ietcipholis, 1.tapache2.cond.d20-systems.im, Ietcipholis, 1.tapache2.cond.d20-systems, Ietcipholis, 1.tapache2.cond.d20-systems.im, Ietcipholis, 1.tapache2.cond.d20-systems, Ietcipholis, 1.tapache2.cond.d20-systems.im, Ietcipholis, 1.tapache2.cond.d20-systems, Ietcipholis, 1.tapache2.cond.d20-systems.im, Ietcipholis, 1.tapache2.cond.d20-systems, Im, Ietcipholis, 1.tapache2.cond.d20-systems.im, Ietcipholis, 1.tapache2.cond.d20-systems, Im, Ietcipholis, 1.tapache2.cond.d20-systems, Im, Ietcipholis, 1.tapache2.cond.d20-systems, Im, Ietcipholis, 1.tapache2.cond.d20-systems, Im, Ietcipholis, 1.tapache2.cond.d20-systems, Im, Ietcipholis, 1.tapache2.cond.d20-systems, Im, Ietcipholis, 1.tapache2.cond, d20-systems, Im, Ietci	tt.ini, hp/8.1/apache2/conf. hmop.ini, i,
PHP API	20210902	
PHP Extension	20210902	
Zend Extension	420210902	
Zend Extension Build	API420210902,NTS	
PHP Extension Build	API20210902,NTS	
Debug Build	no	

			PHP 8.1.2 - phpinfi ×		
G 🛛 🛛 🖉	lot secure   alb-bhargavinukala-1153850297.ap-nor	heast-1.elb.amazonaws.com/phpinfo.php	G 🖻 ✿	関 🌲 🗐 🛛	1 9
	PHP Version 8.1.2		php		
	System	Linux ip-172-31-4-61 5.15.0-1022-aws #26-Ubuntu SMP Thu Oct 13 12:59:25 UTC 2022	2 x86_64		
	Build Date	Aug 8 2022 07:28:23			
	Build System	Linux			
	Server API	Apache 2.0 Handler			
	Virtual Directory Support	disabled			
	Configuration File (php.ini) Path	/etc/php/8.1/apache2			
	Loaded Configuration File	/etc/php/8.1/apache2/php.ini			
	Scan this dir for additional .ini files	/etc/php/8.1/apache2/conf.d			
	Additional .ini files parsed	Idtripholis 1apashe2/conf d1/D-opcache im, letr/pholis 1/apashe2/conf d1/D-opdo im, letr/pholis 1apashe2/conf d2/D-salendar.im, letr/pholis 1/apashe2/conf d2/D-type im, letr/pholis 1/apashe2/conf d2/D-wolf, im, letr/pholis 1/apashe2/conf d2/D-tim, letr/pholis filemio im, letr/pholis 1/apashe2/conf d2/D-tip, im, letr/pholis 1/apashe2/conf d2/D-tim, letr/pholis filemio im, letr/pholis 1/apashe2/conf d2/D-tip, im, letr/pholis 1/apashe2/conf d2/D-tip posis.im, letr/pholis 1/apashe2/conf d2/D-ceadime im, letr/pholis 1/apashe2/conf d2/D-tip posis.im, letr/pholis 1/apashe2/conf d2/D-ceadime im, letr/pholis 1/apashe2/conf d2/D-syswing im, letr/pholis 1/apashe2/conf d2/D-syswem im, letr/pholis 1/apashe2/conf d2/D-syswing im, letr/pholis 1/apashe2/conf d2/D-syswing im, letr/pholis 1/apashe2/conf d2/D-syswing im, l	Lini, np/8.1/apache2/conf.d/20- mop.ini,		
	PHP API	20210902			
	PHP Extension	20210902			
	Zend Extension	420210902			
	Zend Extension Build	API420210902,NTS			
	PHP Extension Build	API20210902,NTS			
	Debug Build	no			
	Thread Safety	disabled			
	Zend Signal Handling	enabled			
	Zend Memory Manager	enabled			
	Zend Multibyte Support	disabled			

This shows the load balancer is working between the instances.