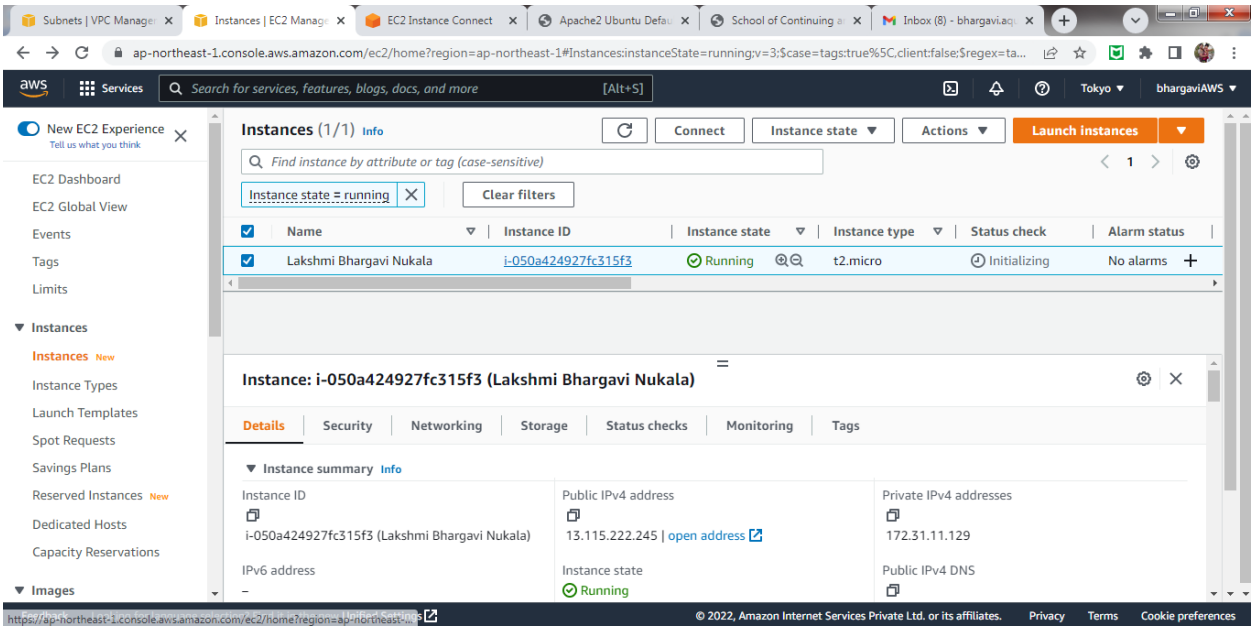
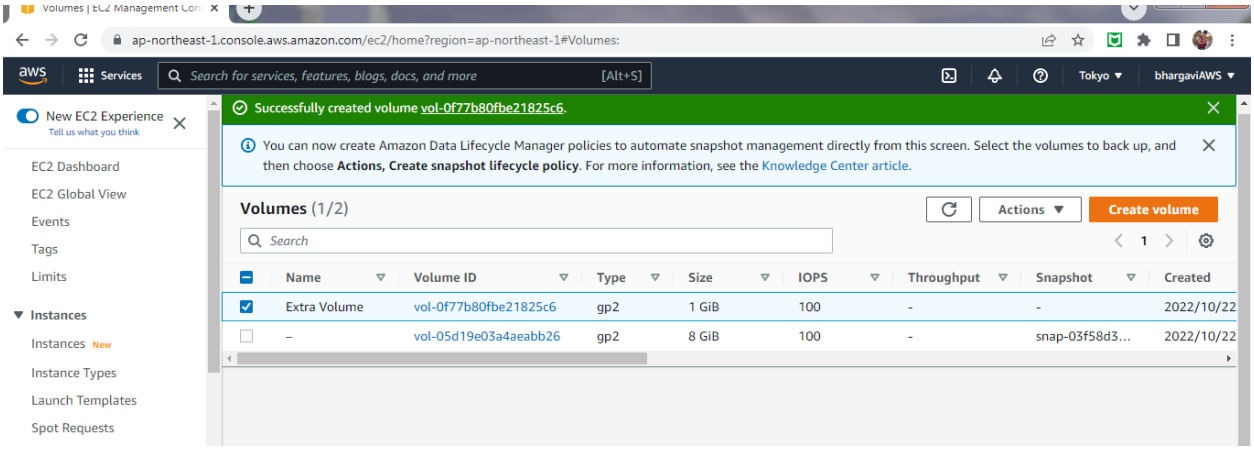
EC2:

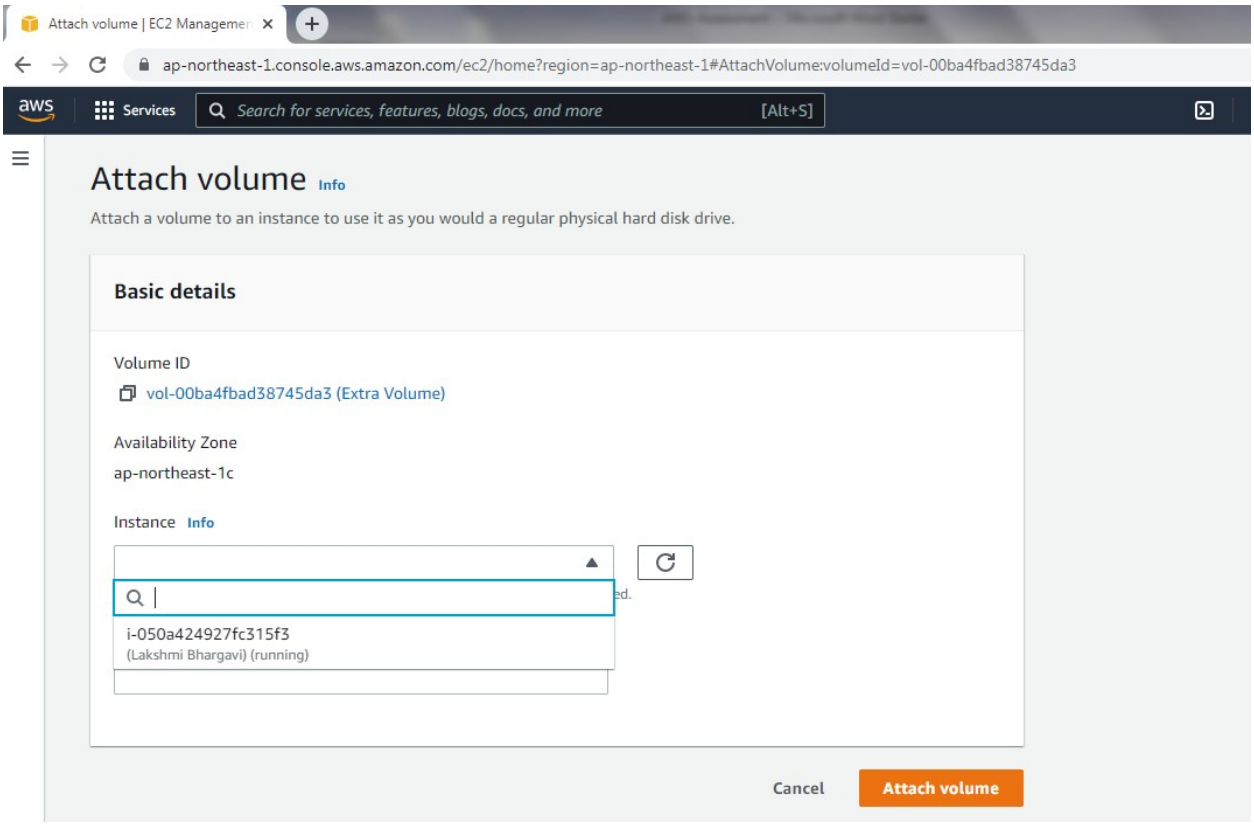
1. Create an instance



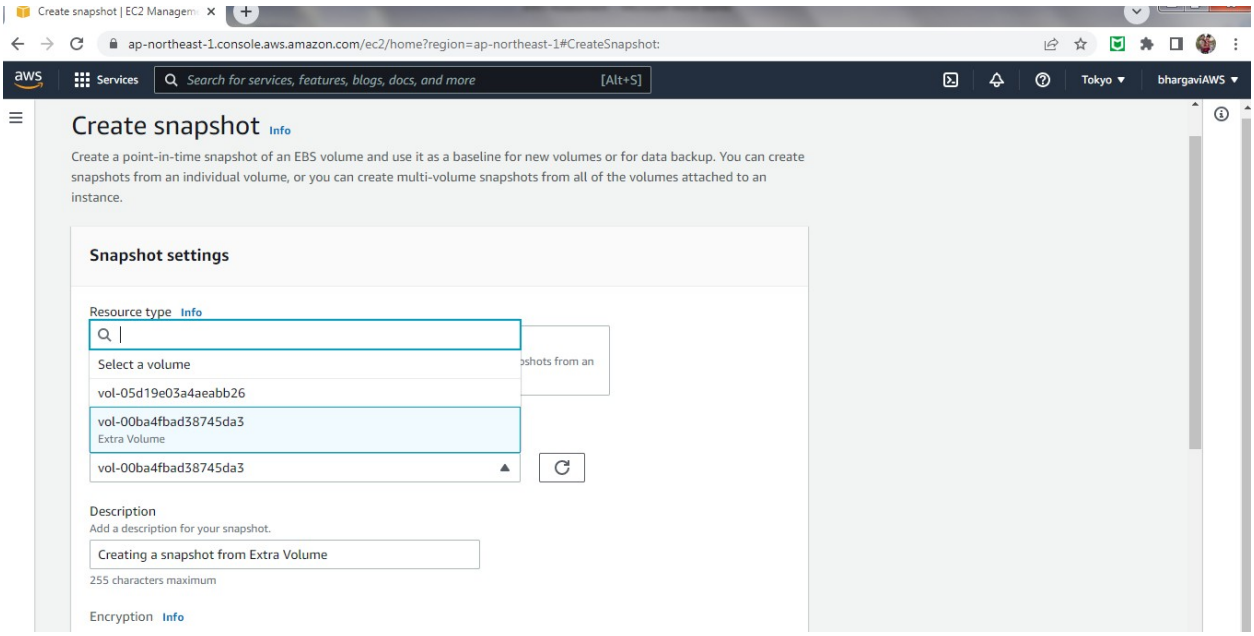
2. Extra Volume of 1GB created



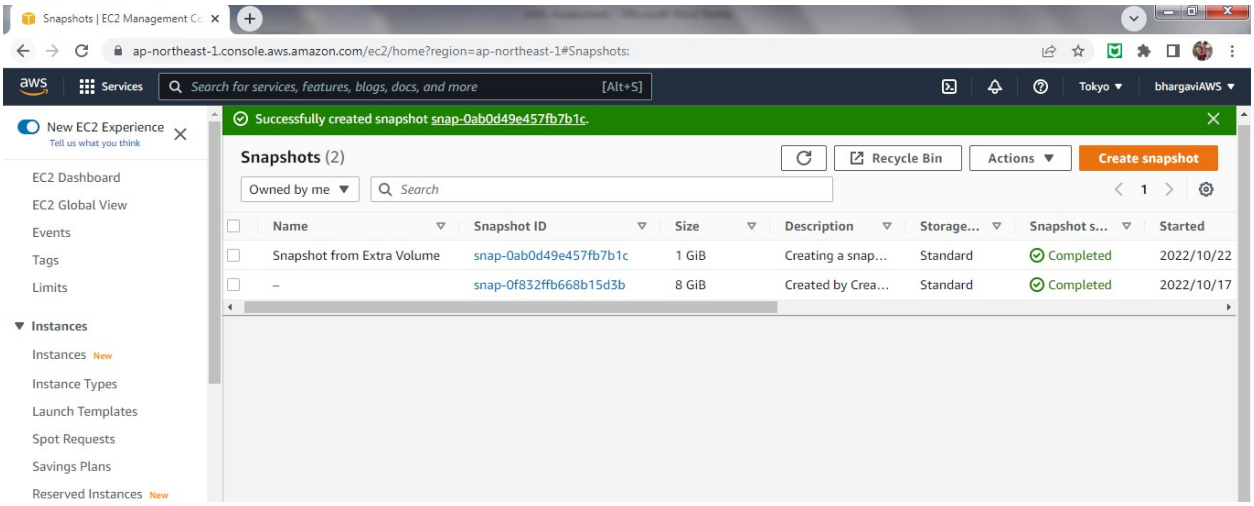
3. Attaching Volume to an instance



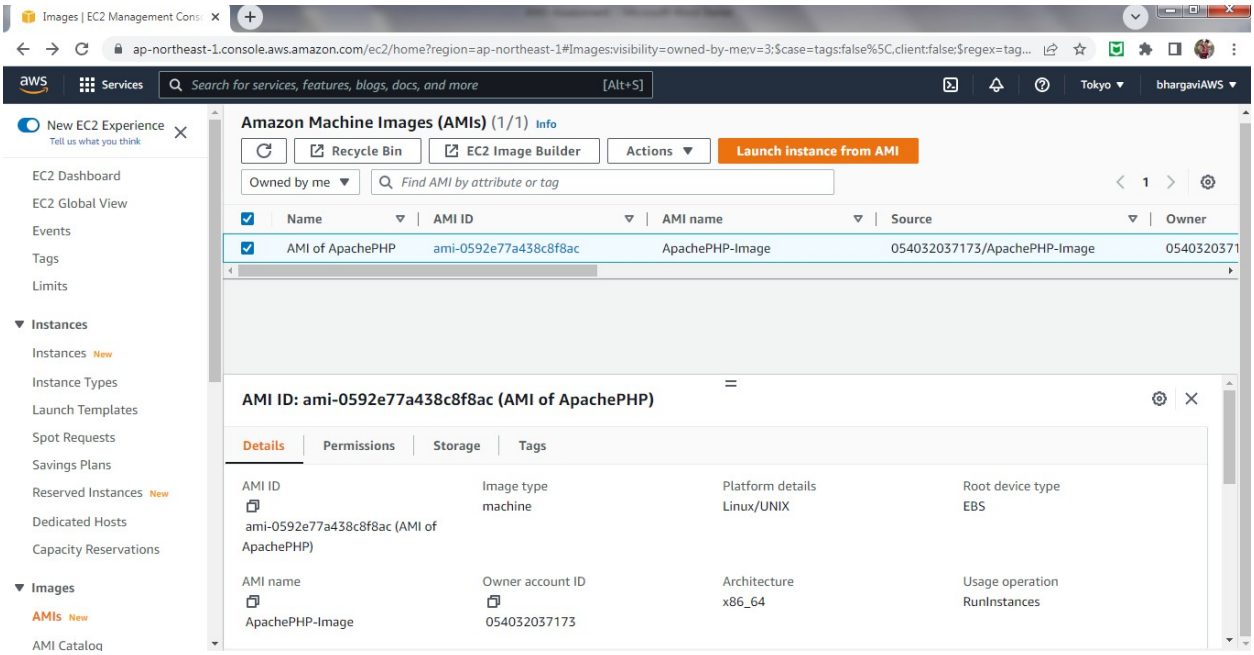
4. Creating a snapshot from the above created volume



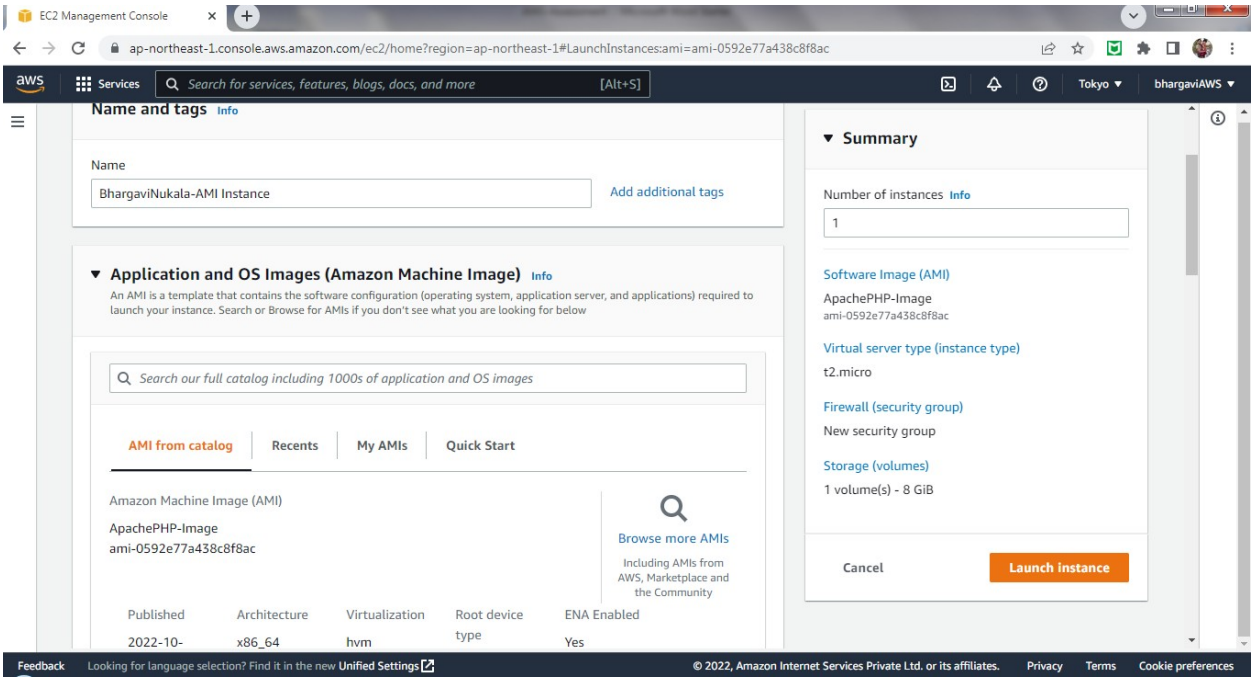
5. Created Snapshot



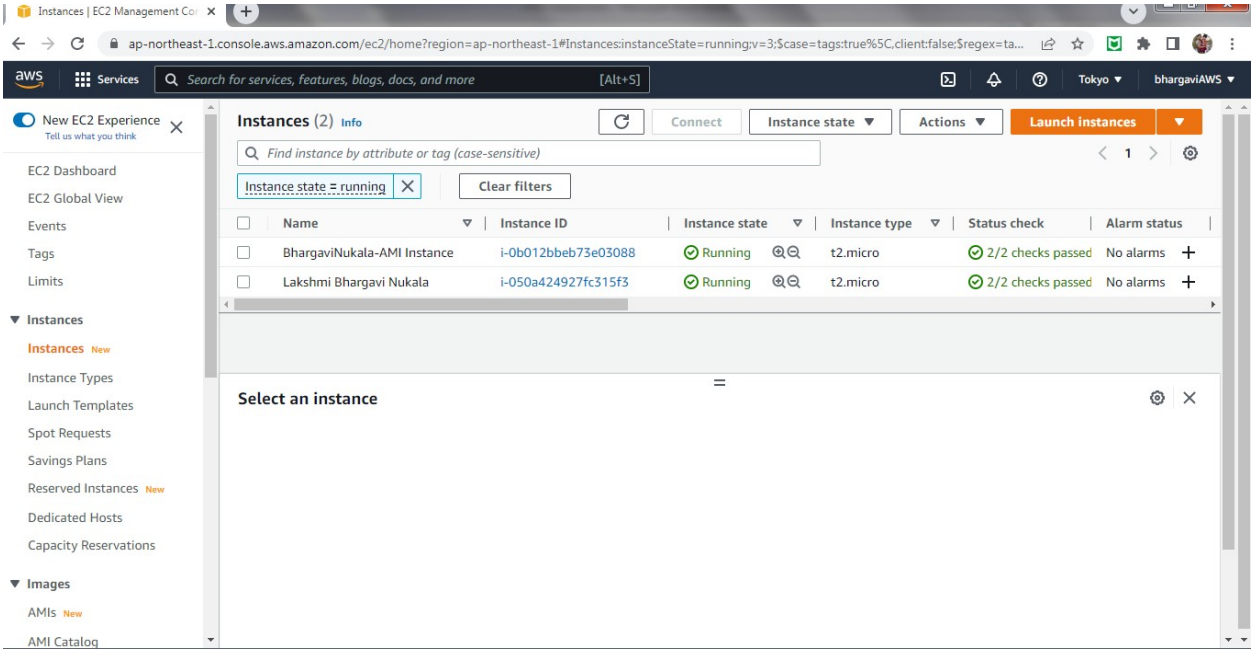
6. Created an AMI from Apache-PHP instance:



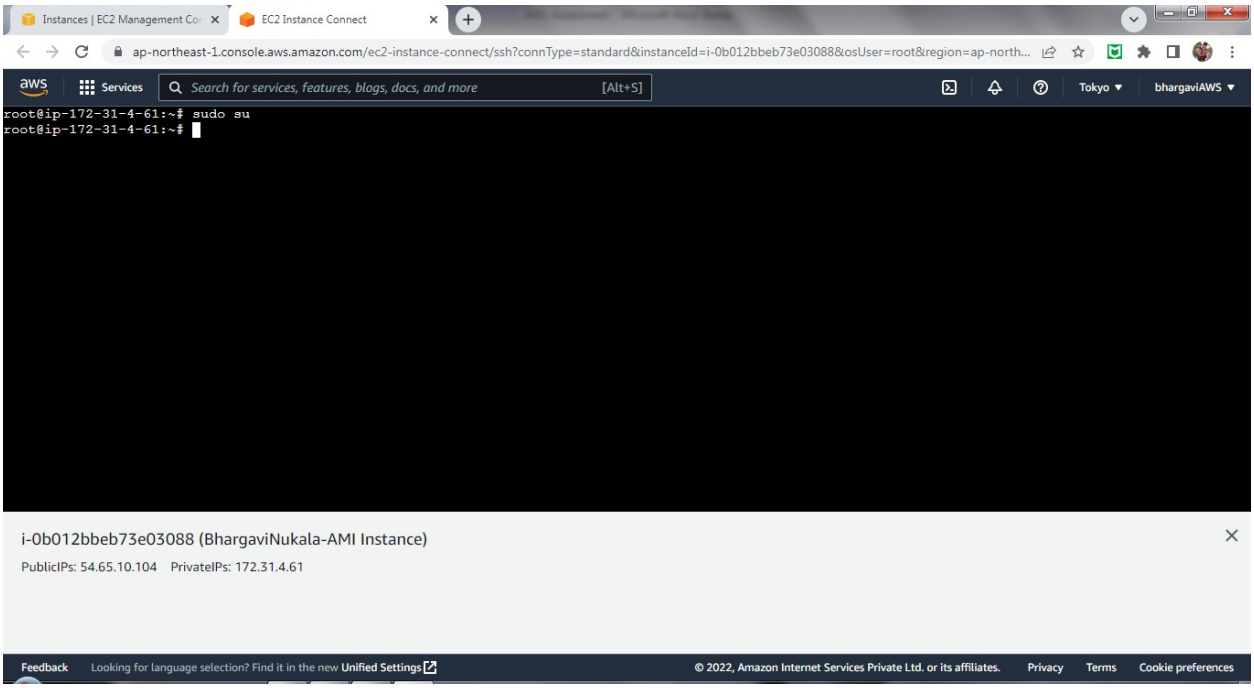
7. Launching an instance from AMI:



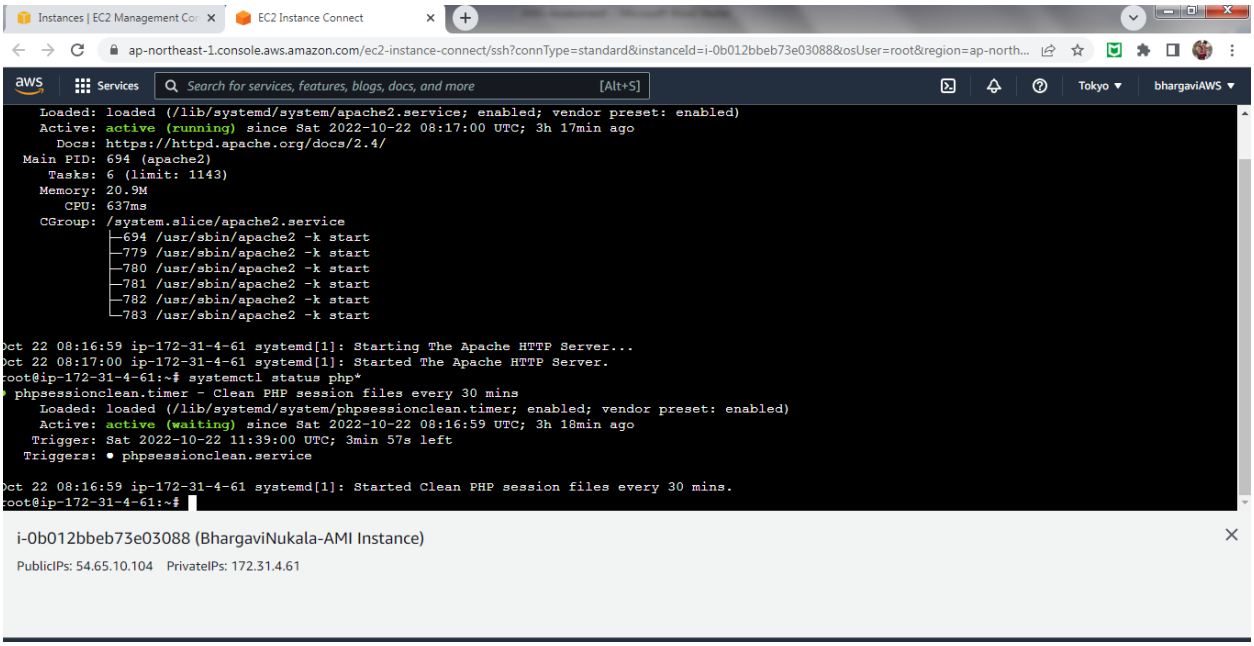
8. Instance availability



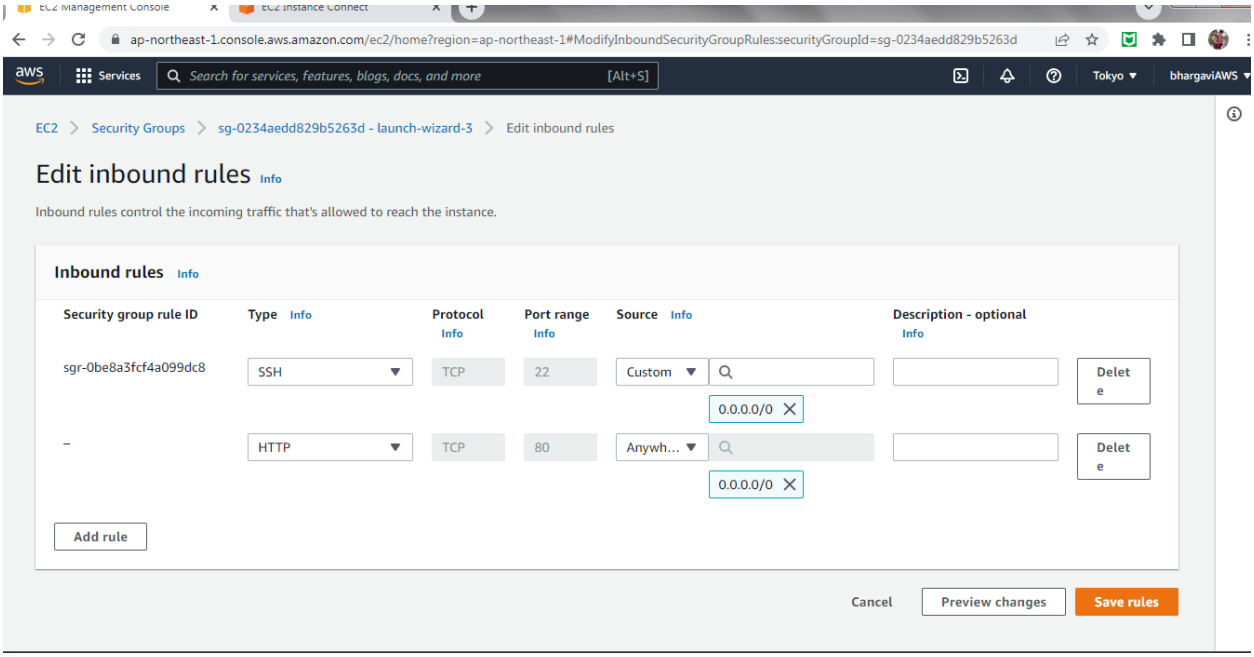
9. Connected AMI instance from Console



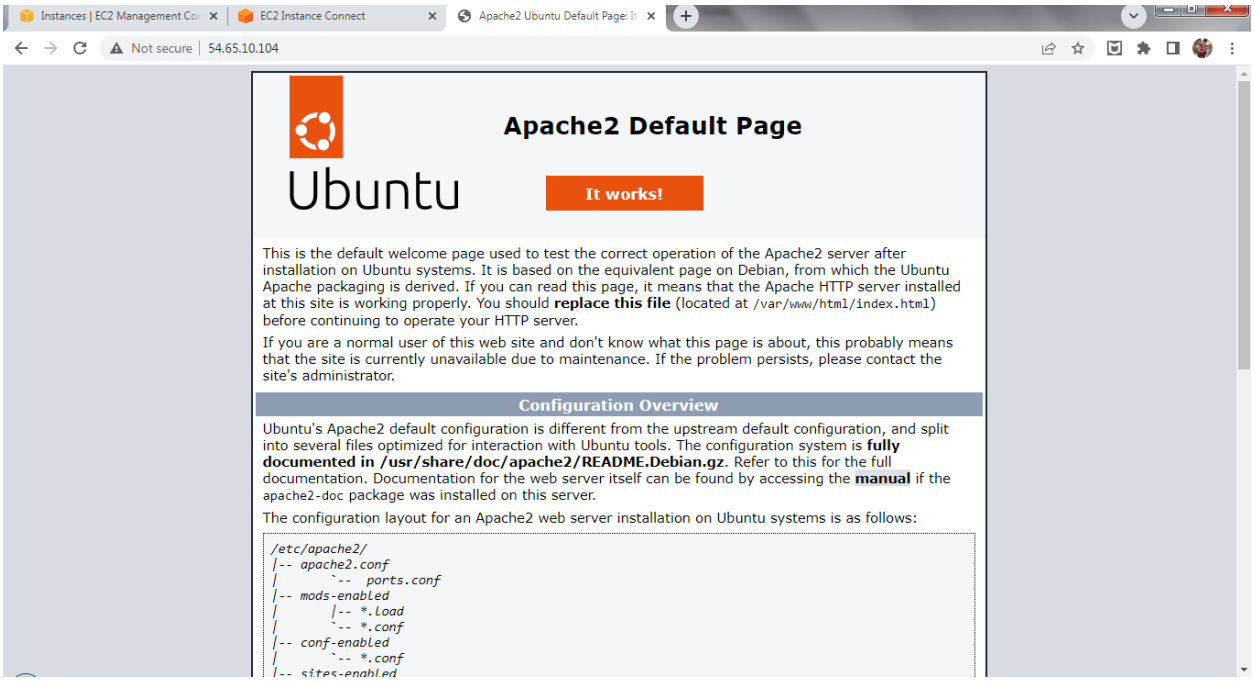
10. Apache and PHP running on AMI instance



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

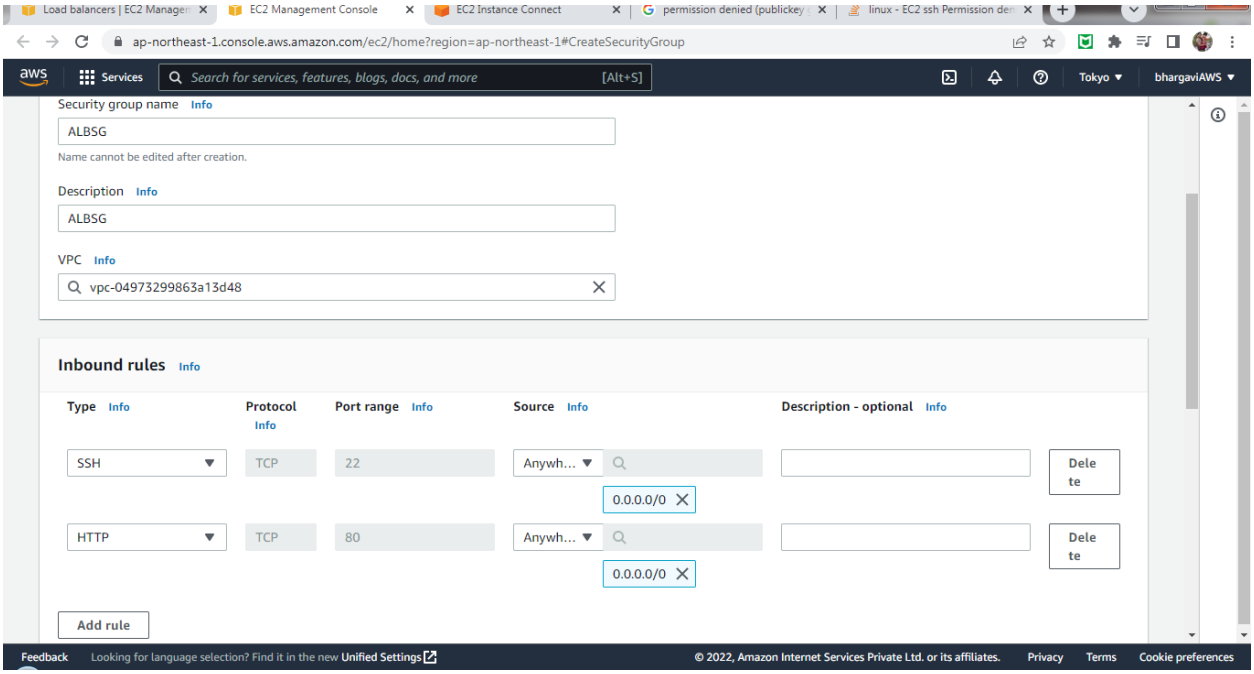


12. Accessing the new AMI instance from Browser

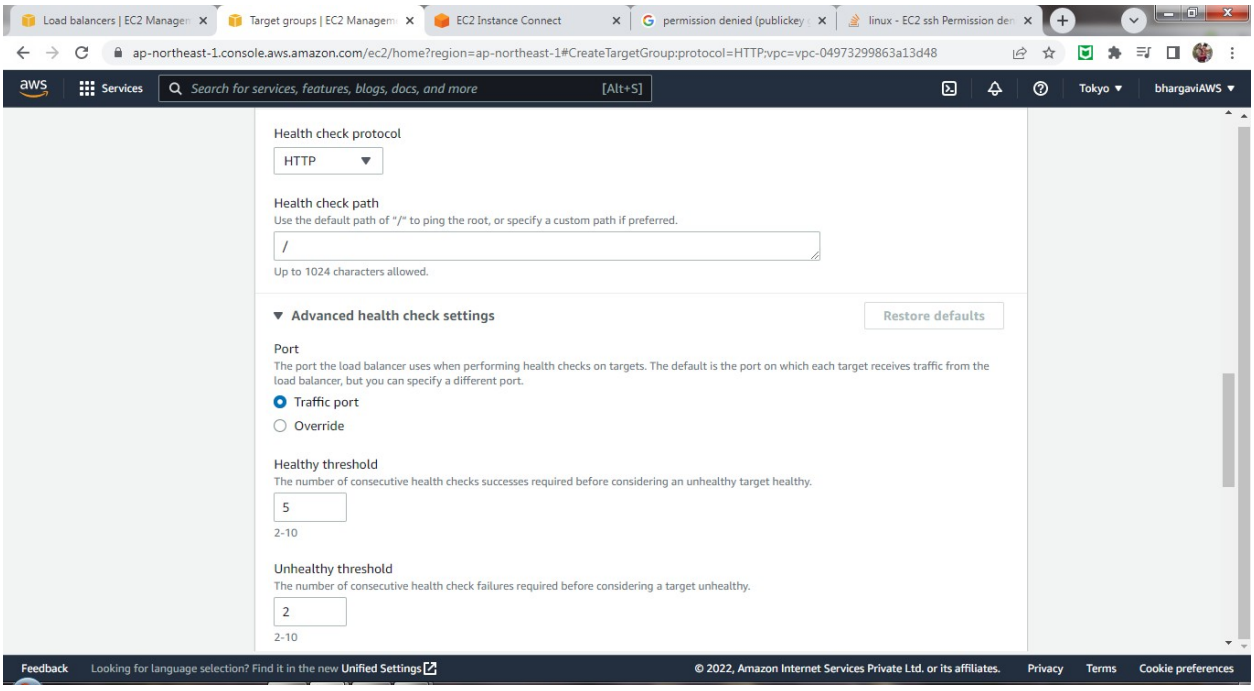


Load Balancer:

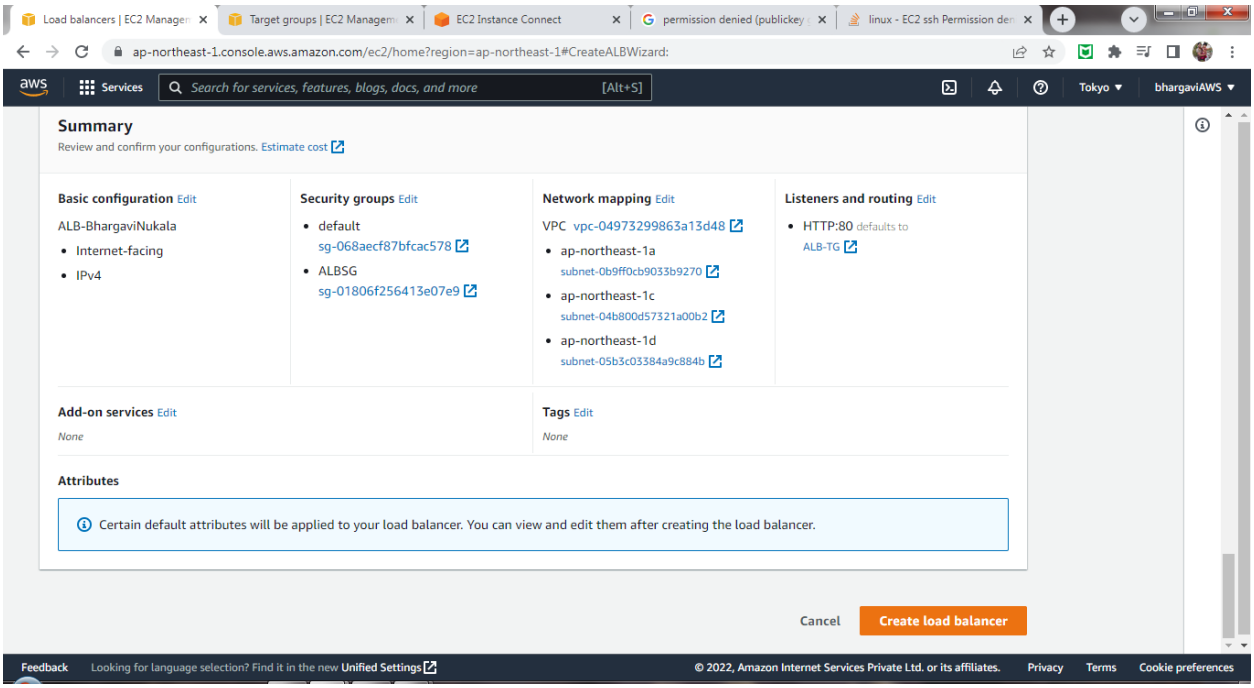
1. Create a new Security Group with ports 22 and 80 open required to create a load balancer



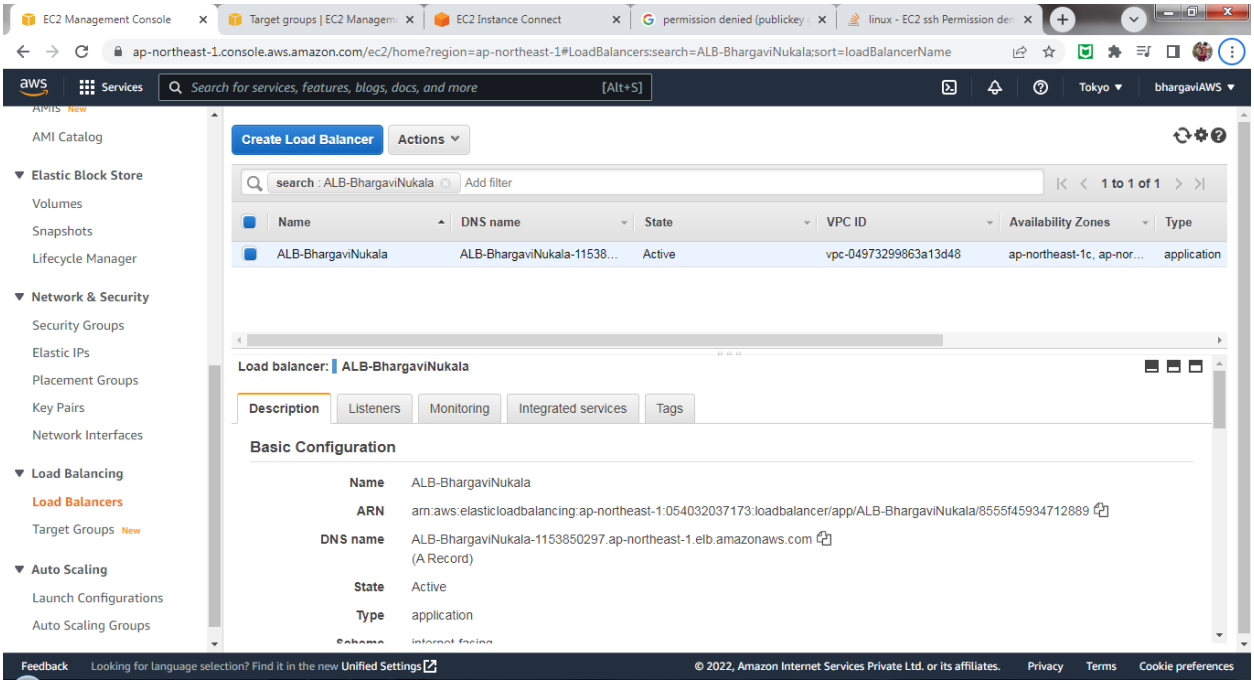
2. Create a new Target Group for the instances to be connected on load balancer. Here we specify all parameters like Healthy score, Unhealthy score, timeout etc.



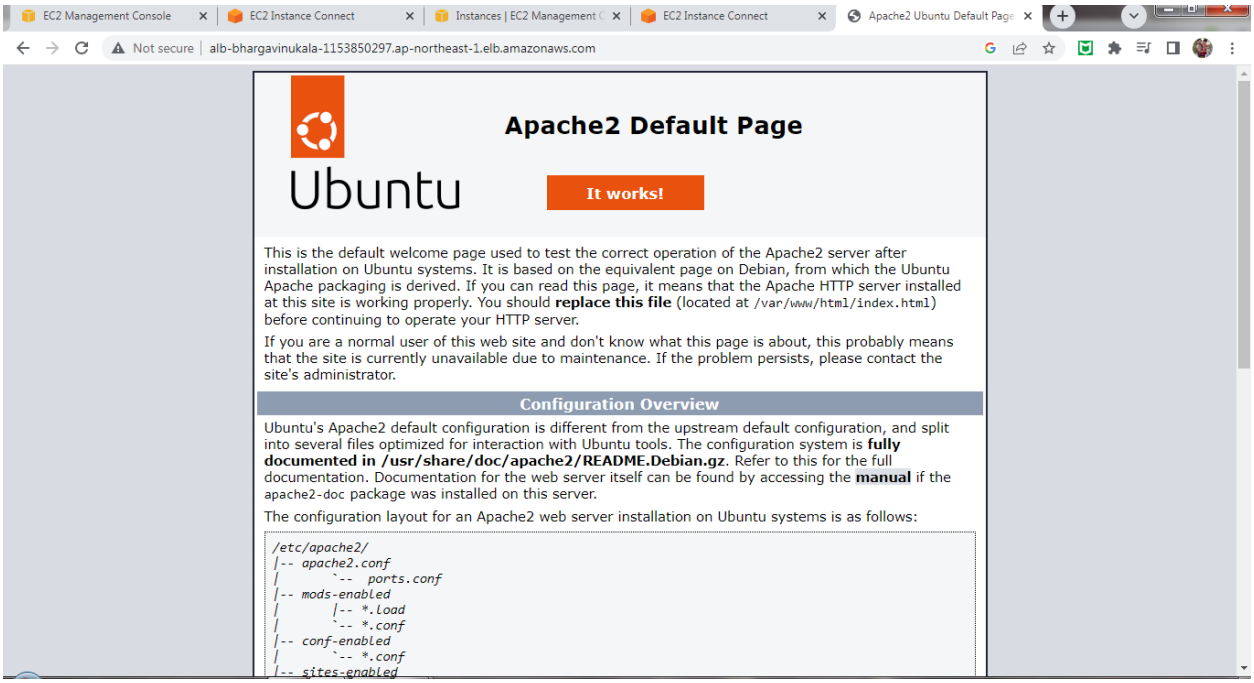
3. Create a load balancer with above created security group ALBSG and target group ALB-TG



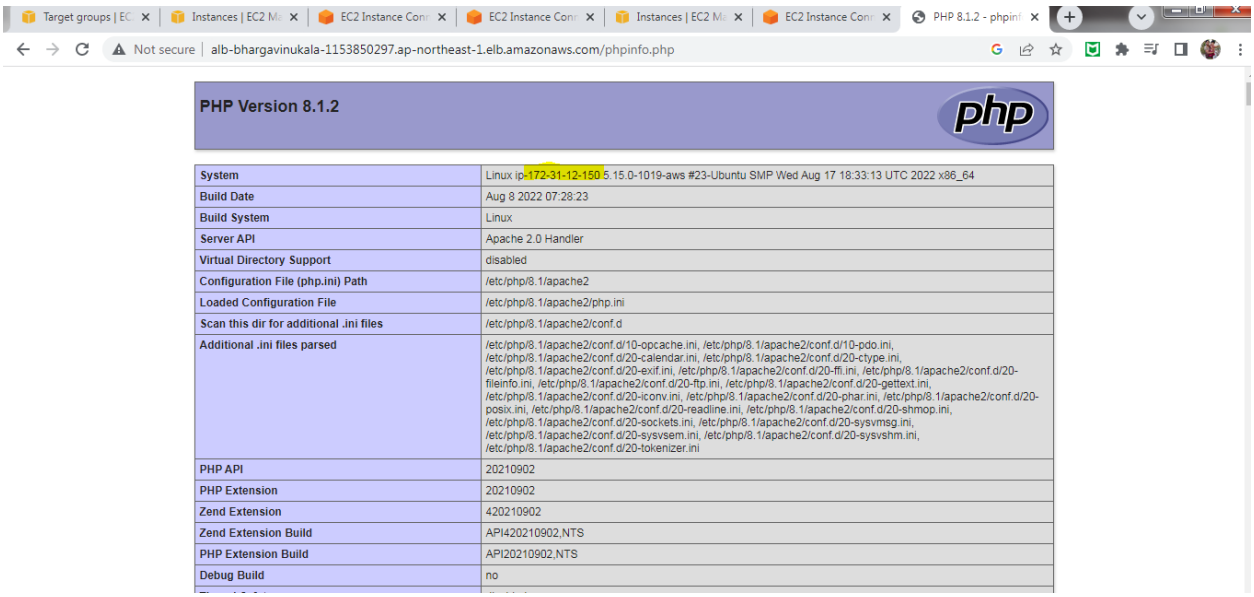
4. Created a load balancer that is in Active Status



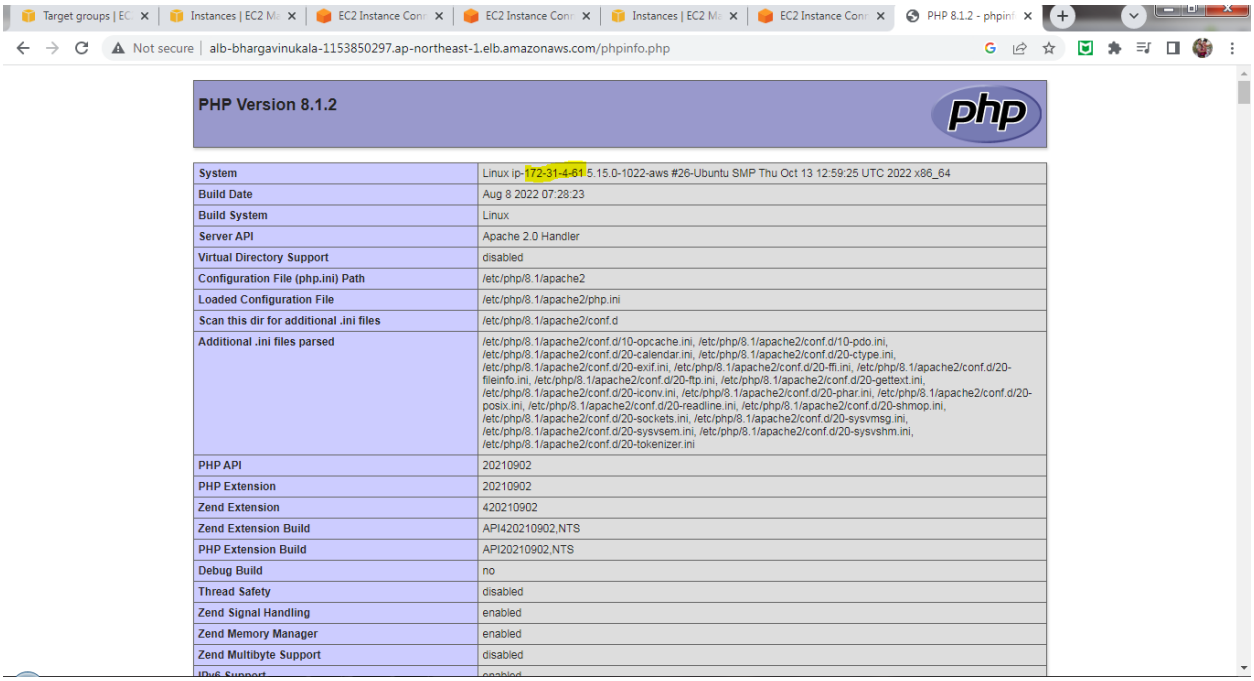
5. Connect to Load Balancer from WebPage



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



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	/etc/php/8.1/apache2/conf.d/10-opcache.ini, /etc/php/8.1/apache2/conf.d/10-pdo.ini, /etc/php/8.1/apache2/conf.d/20-calendar.ini, /etc/php/8.1/apache2/conf.d/20-ctype.ini, /etc/php/8.1/apache2/conf.d/20-exif.ini, /etc/php/8.1/apache2/conf.d/20-ffi.ini, /etc/php/8.1/apache2/conf.d/20-fileinfo.ini, /etc/php/8.1/apache2/conf.d/20-ftp.ini, /etc/php/8.1/apache2/conf.d/20-gettext.ini, /etc/php/8.1/apache2/conf.d/20-iconv.ini, /etc/php/8.1/apache2/conf.d/20-phar.ini, /etc/php/8.1/apache2/conf.d/20-posix.ini, /etc/php/8.1/apache2/conf.d/20-readline.ini, /etc/php/8.1/apache2/conf.d/20-shmop.ini, /etc/php/8.1/apache2/conf.d/20-sockets.ini, /etc/php/8.1/apache2/conf.d/20-sysvmsg.ini, /etc/php/8.1/apache2/conf.d/20-sysvsem.ini, /etc/php/8.1/apache2/conf.d/20-sysvshm.ini, /etc/php/8.1/apache2/conf.d/20-tokenizer.ini
PHP API	20210902
PHP Extension	20210902
Zend Extension	420210902
Zend Extension Build	API420210902,NTS
PHP Extension Build	API20210902,NTS
Debug Build	no



This shows the load balancer is working between the instances.