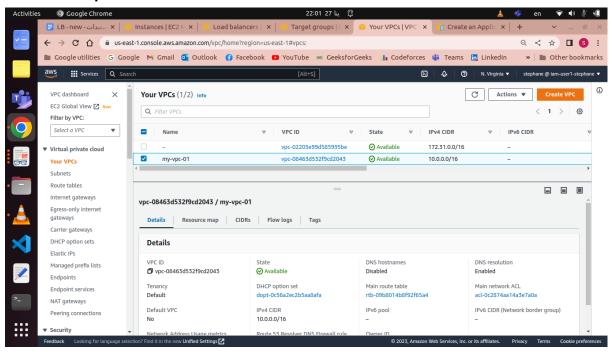
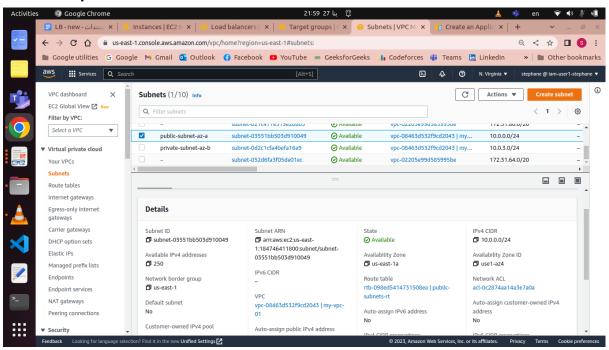
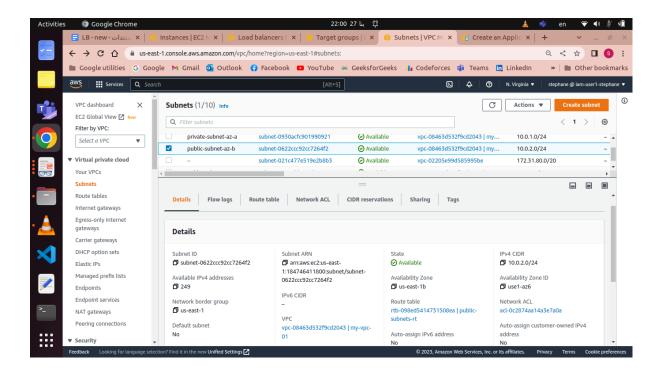
1. Create vpc:



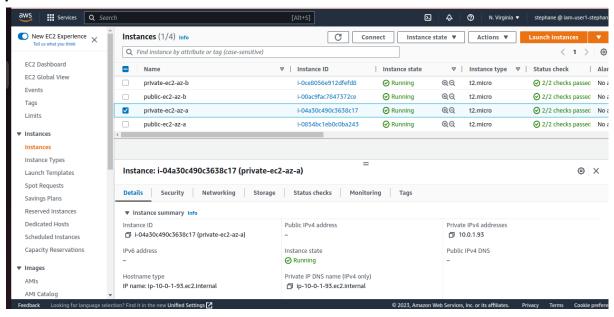
2. Create public subnet - a



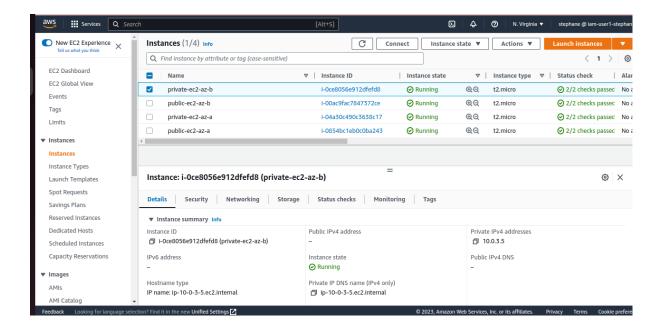
3. Create public subnet - b



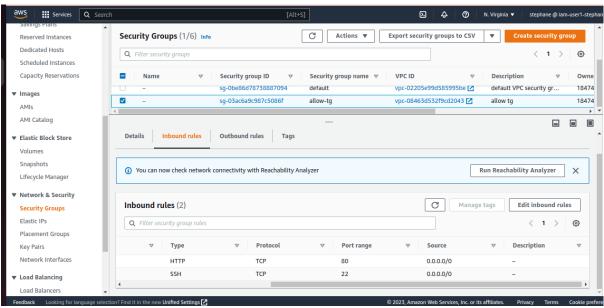
4. private instance - a

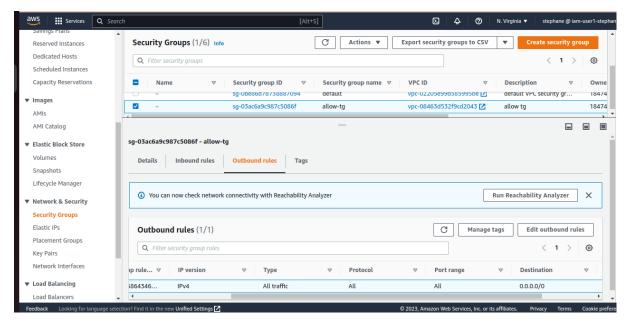


5. private instance - b

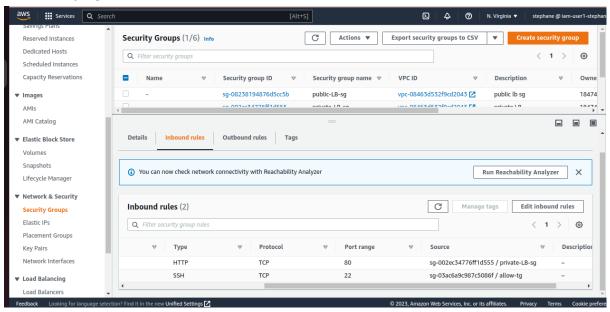


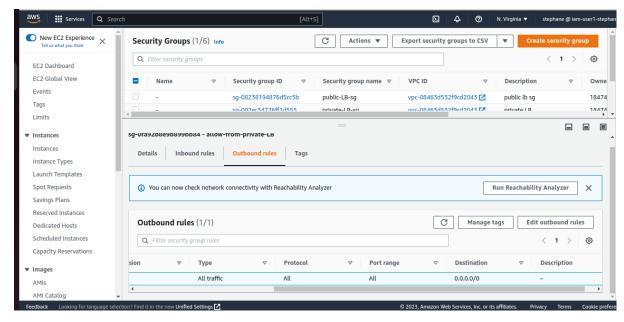
6. security group for both public instances a & b:



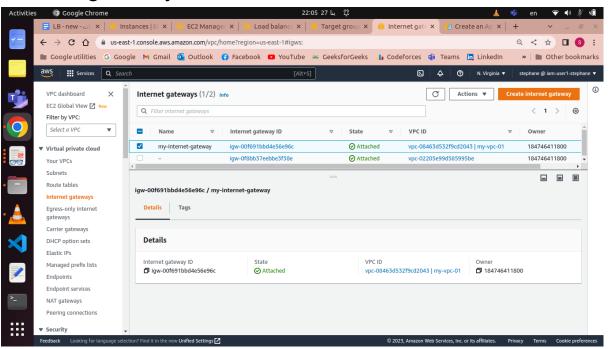


7. security group of private subnets:

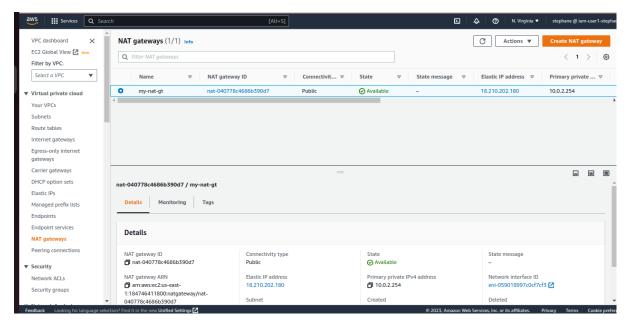




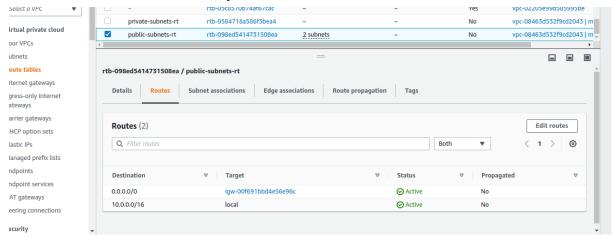
8. Internet gateway:



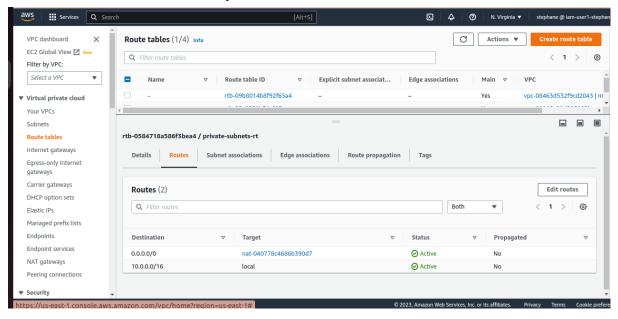
9. nat:



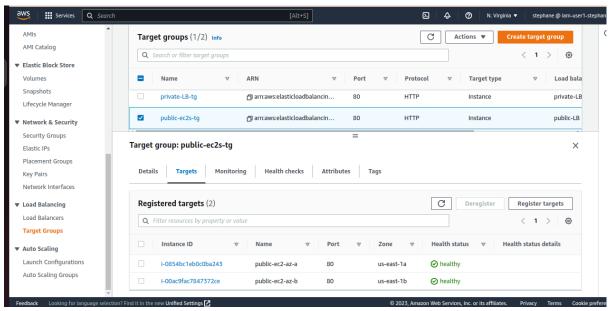
10. route table for the public subnets:



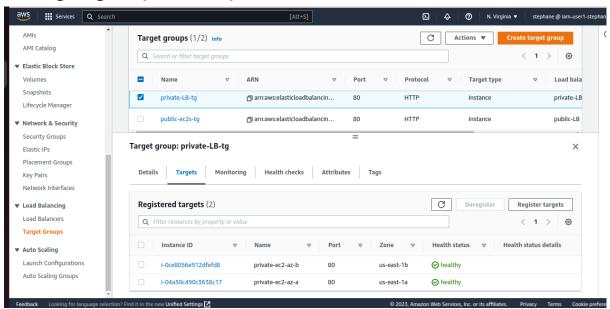
11. route table for the private subnets:



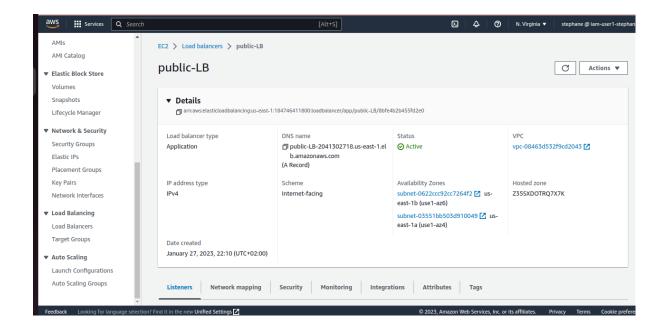
12. target group of the public ec2s:



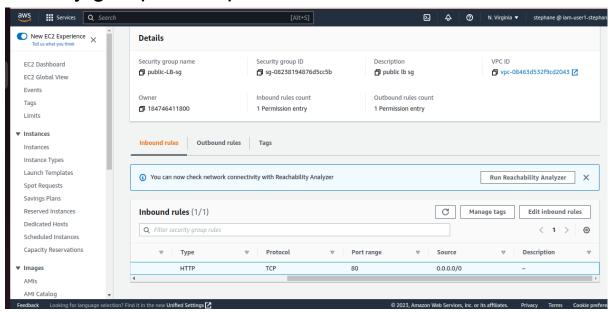
13. target group of the private ec2s:

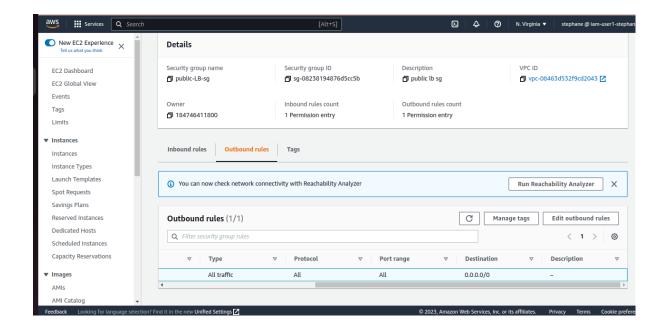


14. Load balancer:

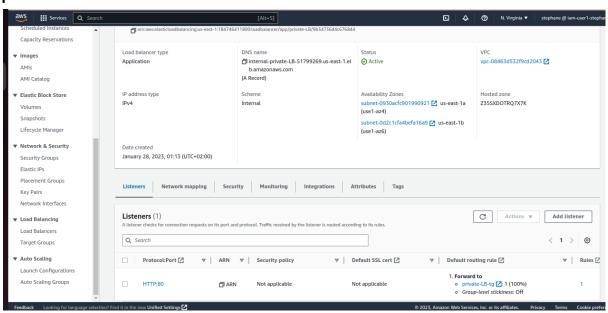


security group of the public-LB:

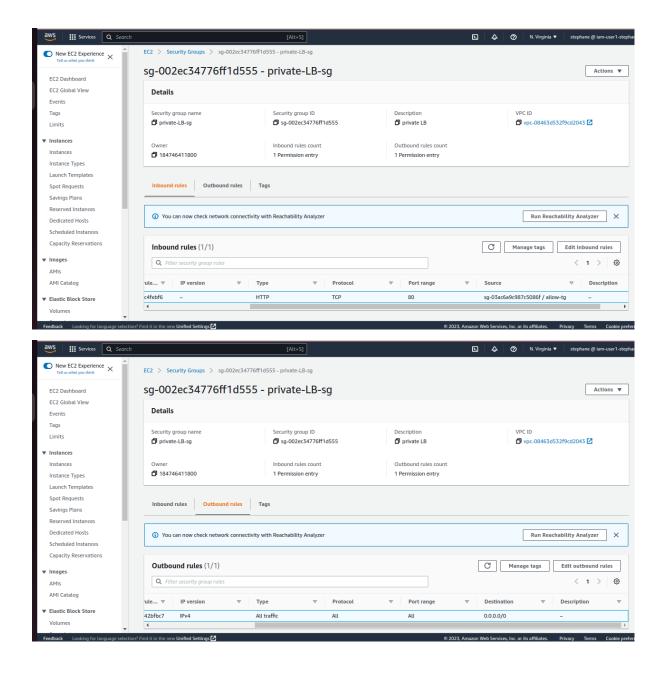




private-LB:



security group of private -LB:



15. reverse proxy of public ec2s:

```
# See: https://bugs.debian.org/765782

# Self signed certs generated by the ssl-cert package
# Don't use then in a production server!
# include snippets/snakeoil.conf;

# Add index.php to the list if you are using PHP
index index.html index.htm index.nginx-debian.html;

server_name _;

location / {
# sfirst attempt to serve request as file, then
# as directory, then fall back to displaying a 404.
proxy_pass http://internal-private-LB-51799269.us-east-1.elb.amazonaws.com[]
)

# pass PHP scripts to FastCGI server
# #location - \.php$ (
# include snippets/fastcgi-php.conf;
# # with php-fpm (or other unix sockets):
# fastcgi_pass unix:/run/php/php7.4-fpm.sock;
# # # With php-cgi (or other top sockets):
# fastcgi_pass 127.0.0.1:9000;
#)

# deny access to .htaccess files, if Apache's document root
# concurs with nginx's one
# location - /\.ht {
# deny all;
# deny all;
# deny all;
# deny all;
```

user data of private ec2s:

```
1 #!/bin/bash
2 sudo apt update -y
3 sudo apt install nginx -y
4 sudo echo "hello from ec2 az 1"
5 sudo systemctl enable nginx
6 sudo systemctl start nginx
```

16. output:

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to $\underline{nginx.org}.$ Commercial support is available at $\underline{nginx.com}.$

Thank you for using nginx.