



Network Security: Enabling HTTPS port in Public Subnets

We'll cover the following



- Objective
- Steps
- Allow only the HTTPS port in public subnets

Objective#

Make our instances inaccessible from the internet.

Steps#

- Only allow the HTTPS port in the public subnets.

Allow only the HTTPS port in public subnets#

Once the hosts are running inside private subnets and with the private security group, we can remove ports 8443 and 22 from the public security group. If we had done this in the previous step, it would have prevented users from reaching our application until the new hosts were created.



```
SecurityGroup:
  Type: AWS::EC2::SecurityGroup
  Properties:
    VpcId: !Ref VPC
    GroupDescription:
      !Sub 'Security group for ${AWS::StackName}'
    SecurityGroupIngress:
      - IpProtocol: tcp
        FromPort: 443
        ToPort: 443
        CidrIp: 0.0.0.0/0
    Tags:
      - Key: Name
        Value: !Ref AWS::StackName
```

stage.yml

Line #7: Only port 443 is allowed in the public subnet.

Now let's deploy and test.

```
./deploy-infra.sh

===== Deploying setup.yml =====

Waiting for changeset to be created..

No changes to deploy. Stack awsbootstrap-setup is up to date

===== Packaging main.yml =====

===== Deploying main.yml =====

Waiting for changeset to be created..
Waiting for stack create/update to complete
Successfully created/updated stack - awsbootstrap
[
  "https://prod.the-good-parts.com",
  "https://staging.the-good-parts.com"
]
```

terminal



```
for run in {1..20}; do curl -s https://staging.the-good-parts.com; done | sort |  
11 Hello HTTPS World from ip-10-0-187-72.ec2.internal in awsbootstrap-Staging-10  
9 Hello HTTPS World from ip-10-0-222-16.ec2.internal in awsbootstrap-Staging-10L
```

terminal

```
for run in {1..20}; do curl -s https://prod.the-good-parts.com; done | sort | un  
10 Hello HTTPS World from ip-10-0-128-220.ec2.internal in awsbootstrap-Prod-1PT6  
10 Hello HTTPS World from ip-10-0-248-112.ec2.internal in awsbootstrap-Prod-1PT6
```

terminal

Our instances are now isolated from the internet, and the only way to reach them is through the load balancer.

```
git add stage.yml  
git commit -m "Only allow port 443 in public subnet"  
git push
```

terminal

Note: All the code has been already added and we are pushing it on our repository as well.

This code requires the following API keys to execute:



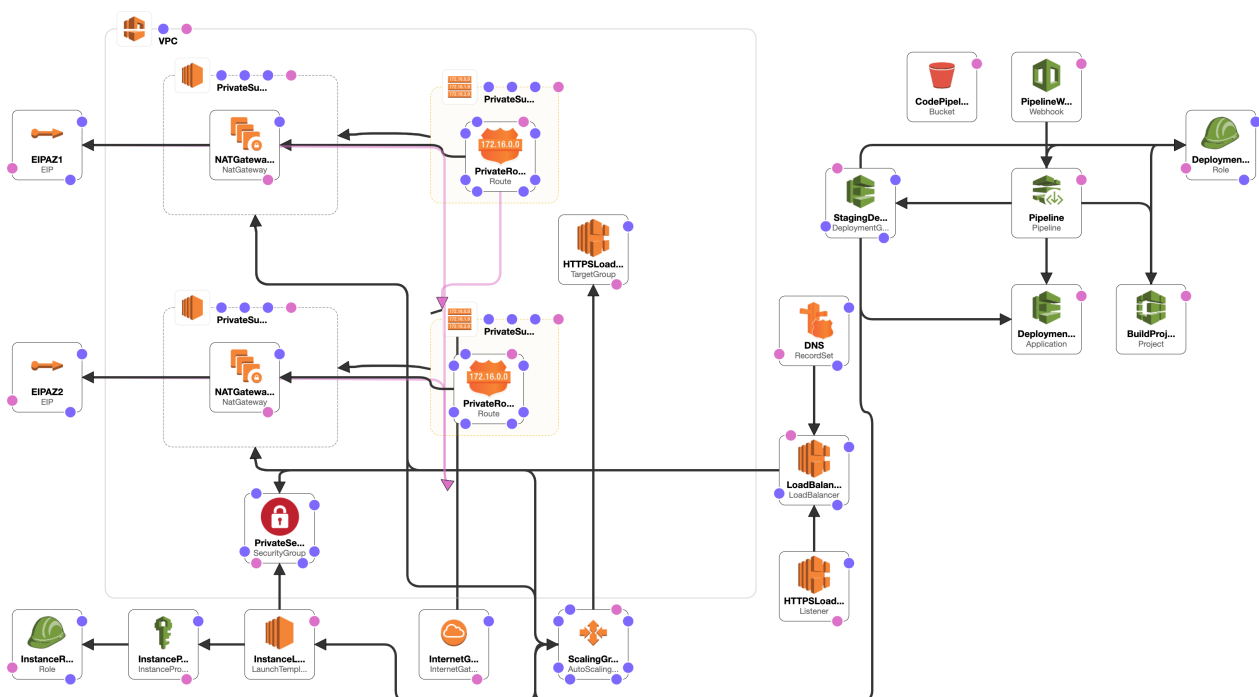
username	Not Specified...
AWS_ACCESS_KE...	Not Specified...
AWS_SECRET_AC...	Not Specified...
AWS_REGION	us-east-1

Not Specified...



Import Values from JSON

```
{
  "name": "aws-bootstrap",
  "version": "1.0.0",
  "description": "",
  "main": "server.js",
  "scripts": {
    "start": "node ./node_modules/pm2/bin/pm2 start ./server.js --name hello_aws",
    "stop": "node ./node_modules/pm2/bin/pm2 stop hello_aws",
    "build": "echo 'Building...'"
  },
  "dependencies": {
    "pm2": "^4.2.0"
  }
}
```



Network Security - Enabling HTTPS port



In the next lesson, we will wrap up our discussion on this course.

Did you complete this lesson?

YES!



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Network Security: Add Private Subnet...



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