

Set the Security Group

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When creating an EC2 Instance manually, we will always be assigned one default security group. A security group is like a set of firewall rules. By default an EC2 instance will not accept any incoming IP traffic, so we need to start to add rules to our security group to allow this.

Below is an example of some security groups. Remember, the default security group "launch-wizard-1" is automatically created when you manually create an EC2 Instance.

Name	Group ID	Group Name	VPC ID	Description
<input type="checkbox"/>	sg-399ecec50	launch-wizard-1	vpc-50f86f39	launch-wizard-1 created 2017-07-27T08:56:04.585+01:00
<input type="checkbox"/>	sg-4ff0a126	default	vpc-50f86f39	default VPC security group

I believe the security group can be referenced in the Terraform script by either it's group name or its group ID.

Below we can see the contents of the security group launch-wizard-1.

Type	Protocol	Port Range	Source
HTTP	TCP	80	Custom 0.0.0.0/0
HTTP	TCP	80	Custom ::/0
SSH	TCP	22	Custom 0.0.0.0/0

NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

By default, only the SSH rule is added, I added the two HTTP rules as my EC2 Instance is a web server, and without port 80 it's pretty useless.

In the script, my security group setting will be:

```
security_groups= ["launch-wizard-1"]
```

This Terraform script does not create a security group, you have to manually create the security group, The Terraform Script simply points to an existing Security Group (or Security Groups).

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