

Create ec2 instance and security group

```
resource.tf > resource "aws_instance" "this_is_aws_instance" > tags
1  resource "aws_instance" "this_is_aws_instance" {
2      ami = "ami-0440d3b780d96b29d"
3      instance_type = "t2.small"
4      key_name = "my-key"
5      vpc_security_group_ids = ["sg-021237f58afedf643", aws_security_group.this_sg.id]
6      availability_zone = "us-east-1a"
7      root_block_device {
8          volume_size = 10
9      }
10     user_data_base64 = true
11     tags = {
12         Name = "terraform_server"
13     }
14 }
15
16 resource "aws_security_group" "this_sg" {
17     ingress {
18         from_port = 80
19         to_port = 80
20         protocol = "TCP"
21         cidr_blocks = ["0.0.0.0/0"]
22     }
23     ingress {
24         from_port = 8080
25         to_port = 8080
26         protocol = "TCP"
27         cidr_blocks = ["0.0.0.0/0"]
28     }
29     ingress {
30         from_port = 22
31         to_port = 22
32         protocol = "TCP"
33         cidr_blocks = ["0.0.0.0/0"]
34     }
}
```

```

35     ingress {
36         from_port    = 3306
37         to_port      = 3306
38         protocol     = "TCP"
39         cidr_blocks   = ["0.0.0.0/0"]
40     }
41
42     egress {
43         from_port    = 0
44         to_port      = 0
45         protocol     = "-1"
46         cidr_blocks   = ["0.0.0.0/0"]
47     }
48
49 }

```

Created instance and security group :

Instances (1/3)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/> terraform_server	i-0318d3387e3ac19e7	Running	t2.small	2/2 checks passed	View alarms +	us-east-1a
<input type="checkbox"/> node-1	i-075135202f92ac083	Stopped	t2.medium	-	View alarms +	us-east-1a
<input type="checkbox"/> master-1	i-074ac0c9d37b50243	Stopped	t2.medium	-	View alarms +	us-east-1a

Security group name: terraform-20240309062908188000000001
Security group ID: sg-03fc5ac201a0d769a
Description: Managed by Terraform
VPC ID: vpc-09e110c70c4d3bb46

Inbound rules (4)

Name	Security group rule...	IP version	Type	Protocol	Port range
-	sg-0ac860593e5720e9e	IPv4	MySQL/Aurora	TCP	3306
-	sg-010750656849cbf75	IPv4	SSH	TCP	22
-	sg-05ede3731272f2d67	IPv4	Custom TCP	TCP	8080
-	sg-0c9ce703a79faf7be	IPv4	HTTP	TCP	80