RESOURCES USED:

1. Key Pair
2. VPC and all its components
3. Amazon SNS Topic
4. IAM (Roles,Instance Profile)

1. USING CLOUD FORMATION TEMPLATE:

2. EC2 INSTANCE:

i-08a4dd391f2974a43 (VPCE-Tutorial-EC2Instance)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

▼ **Instance summary** Info

Instance ID	**Public IPv4 address**	**Private IPv4 addresses**
i-08a4dd391f2974a43 (VPCE-Tutorial-EC2Instance)	18.207.240.130 | open address	10.0.0.26
IPv6 address	**Instance state**	**Public IPv4 DNS**
–	⊘ Running	ec2-18-207-240-130.con open address
Hostname type	**Private IP DNS name (IPv4 only)**	
IP name: ip-10-0-0-26.ec2.internal	ip-10-0-0-26.ec2.internal	

3. VPC WITH 1 SUBNET

EC2 > Instances > i-08a4dd391f2974a43

Instance summary for i-08a4dd391f2974a43 (VPCE-Tutorial-EC2Instance) Info

⟳ | Connect | Instance state ▼ | Actions ▼

Updated less than a minute ago

Instance ID	**Public IPv4 address**	**Private IPv4 addresses**
i-08a4dd391f2974a43 (VPCE-Tutorial-EC2Instance)	18.207.240.130 | open address	10.0.0.26
IPv6 address	**Instance state**	**Public IPv4 DNS**
–	⊘ Running	ec2-18-207-240-130.compute-1.amazonaws.com open address
Hostname type	**Private IP DNS name (IPv4 only)**	
IP name: ip-10-0-0-26.ec2.internal	ip-10-0-0-26.ec2.internal	
Answer private resource DNS name	**Instance type**	**Elastic IP addresses**
–	t2.micro	–
Auto-assigned IP address	**VPC ID**	**AWS Compute Optimizer finding**
18.207.240.130 [Public IP]	vpc-01d9d0db5ac0e43f7 (VPCE-Tutorial-VPC)	ⓘ Opt-in to AWS Compute Optimizer for recommend tions. | Learn more
IAM Role	**Subnet ID**	**Auto Scaling Group name**

4. NO CONNECTION OF EC2 TO INTERNET:

```
[ec2-user@ip-10-0-0-26 ~]$ ping google.com
PING google.com (172.253.63.139) 56(84) bytes of data.
^C
--- google.com ping statistics ---
11 packets transmitted, 0 received, 100% packet loss, time 10233ms

[ec2-user@ip-10-0-0-26 ~]$ |
```

For CONNECTION TO SNS

5. CREATION OF VPC ENDPOINT:

vpce-00c59cf17ef2c20ec / sns-endp

Details

Endpoint ID	Status	Creation time
vpce-00c59cf17ef2c20ec	⊘ Available	Friday, August 2, 2024 at 17:18:55 GMT+5:30
VPC ID	**Status message**	
vpc-01d9d0db5ac0e43f7 (VPCE-Tutorial-VPC)	–	**Service name**
	IP address type	com.amazonaws.us-east-1.sns
DNS record IP type	ipv4	**DNS names**
ipv4		vpce-00c59cf17ef2c20ec-adg3vbqs.sns.us-east-1.vpce.amazonaws.com - (Z7HUB22UULQXV)
Private DNS only inbound resolver endpoint		vpce-00c59cf17ef2c20ec-adg3vbqs-us-east-1f.sns.us-east-1.vpce.amazonaws.com - (Z7HUB22UULQXV)
–		sns.us-east-1.amazonaws.com - (Z032743610JPKBZ4UW82R)

6.CONNECTION THROUGH VPC ENDPOINT:→

```
[ec2-user@ip-10-0-0-26 ~]$ aws sns publish --region us-east-1 --topic-arn arn:aws:sns:us-east-1:891377323684:VPCE-Tutori
al-Topic --message "IT WORKS THATS ALL YOU NEED"
{
    "MessageId": "165dc3b5-00e0-5d9d-b798-9c93d053b37b"
}
[ec2-user@ip-10-0-0-26 ~]$
```

AS PER SUBSCRIPTION TO EMAIL:

VPCE-Tutorial-Topic
to me ▼

IT WORKS THATS ALL YOU NEED

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