

AWS-PROJECT-3

23 December 2023 13:19

Industry: Healthcare

Problem Statement: How to secure patient records online and send it privately to the intended party

Topics: In this project, you will be working on a hospital project to send reports online and develop a platform so the patients can access the reports via mobile and push notifications. You will publish the report to an Amazon SNS keeping it secure and private. Your message will be hosted on an EC2 instance within your Amazon VPC. By publishing the messages privately, you can improve the message delivery and receipt through Amazon SNS.

Highlights:

1. AWS CloudFormation to create a VPC
2. Connect VPC with AWS SNS
3. Publish message privately with SNS

The screenshot shows the AWS Management Console 'Key pairs (1/1) Info' page. The left sidebar shows the navigation menu with 'Instances' selected. The main content area displays a table of key pairs:

Name	Type	Created	Fingerprint	ID
VPCE-Tutorial-KeyPair	rsa	2023/12/23 12:34 GMT+5:30	a2:b2:7c:5e:31:2f:3b:91:b4:ca:ae:43:...	key-0c1f4dfb653638d0a

The screenshot shows the AWS Management Console 'CloudFormation > Stacks > VPCE-Tutorial-stack' page. The left sidebar shows the navigation menu with 'CloudFormation' selected. The main content area displays the 'VPCE-Tutorial-stack' details, including the 'Events' tab which shows the stack creation progress:

Timestamp	Logical ID	Status	Status reason
2023-12-23 12:47:33 UTC+0530	VPCE-Tutorial-stack	CREATE_COMPLETE	-
2023-12-23 12:47:32 UTC+0530	EC2Instance	CREATE_COMPLETE	-
2023-12-23 12:46:40 UTC+0530	EC2Instance	CREATE_IN_PROGRESS	Resource creation Initiated
2023-12-23 12:46:39 UTC+0530	EC2Instance	CREATE_IN_PROGRESS	-
2023-12-23 12:46:38	EC2InstanceProfile	CREATE_COMPLETE	-

us-east-2.console.aws.amazon.com/ec2/home

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EC2 Dashboard
EC2 Global View
Events

▼ Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New

▼ Images
AMIs
AMI Catalog

▼ Elastic Block Store
Volumes
Snapshots

Instances (1/1) info

Find Instance by attribute or tag (case-sensitive)

Instance ID = i-01c98531798a85024 Clear filters

1

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
VPCE-Tutorial-...	i-01c98531798a85024	Running	t2.micro	Initializing	No alarms	us-east-2a	ec2-18-220-183-131

Instance: i-01c98531798a85024 (VPCE-Tutorial-EC2)

Details Security Networking Storage Status checks Monitoring Tags

▼ Instance summary info

Instance ID	i-01c98531798a85024 (VPCE-Tutorial-EC2)	Public IPv4 address	18.220.183.131 open address	Private IPv4 addresses	10.0.0.83
IPv6 address	-	Instance state	Running	Public IPv4 DNS	ec2-18-220-183-131.us-east-2.compute.amazonaws.com open address
Hostname type	IP name: ip-10-0-0-83.us-east-2.compute.internal	Private IP DNS name (IPv4 only)	ip-10-0-0-83.us-east-2.compute.internal	Elastic IP addresses	
Answer private resource DNS name		Instance type	t2.micro		

Waiting for us-east-2.prod.pr.analytics.console.aws.a2z.com...

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Amazon SNS

Dashboard
Topics
Subscriptions

▼ Mobile
Push notifications
Text messaging (SMS)
Origination numbers

Amazon SNS > Topics > VPCE-Tutorial-Topic

VPCE-Tutorial-Topic

Edit Delete Publish message

Details

Name	VPCE-Tutorial-Topic	Display name	VPCE-Tutorial-Topic
ARN	arn:aws:sns:us-east-2:990444022158:VPCE-Tutorial-Topic	Topic owner	990444022158
Type	Standard		

Subscriptions Access policy Data protection policy Delivery policy (HTTP/S) Delivery status logging Encryption Tags Integrations

Subscriptions (3)

Edit Delete Request confirmation Confirm subscription Create subscription

Search

ID	Endpoint	Status	Protocol
6c5d932e-0fe9-4d99-966c-4595...	arn:aws:lambda:us-east-2:990444...	Confirmed	LAMBDA
a0166672-ec30-4a24-bddf-c302...	vishwaofficial1@gmail.com	Confirmed	EMAIL
e9300f62-b273-443d-8109-25b...	arn:aws:lambda:us-east-2:990444...	Confirmed	LAMBDA

CloudShell Feedback

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