

AWS ARCHITECTURE DESIGN, IMPLEMENTATION STEPS & SCREENSHOTS

SmartSOS: AWS-Based Location-Aware Emergency Assistance and Management System

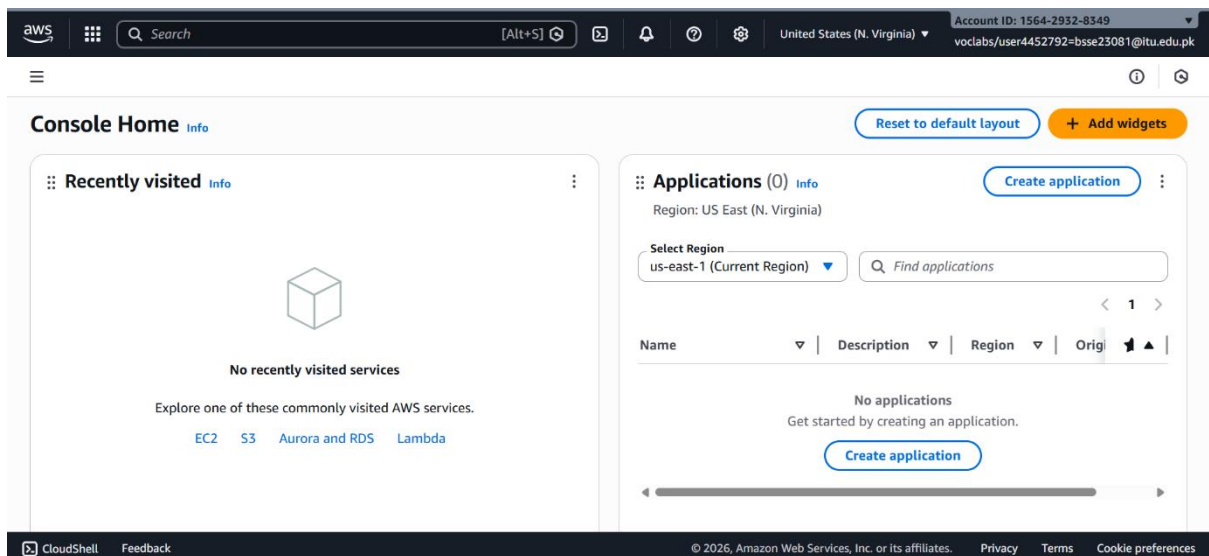
Authors: Areesha Hameed Khan, Saleh bint e Bilal

Supervisors: Dr. Zunnurain, Umair Makhdum

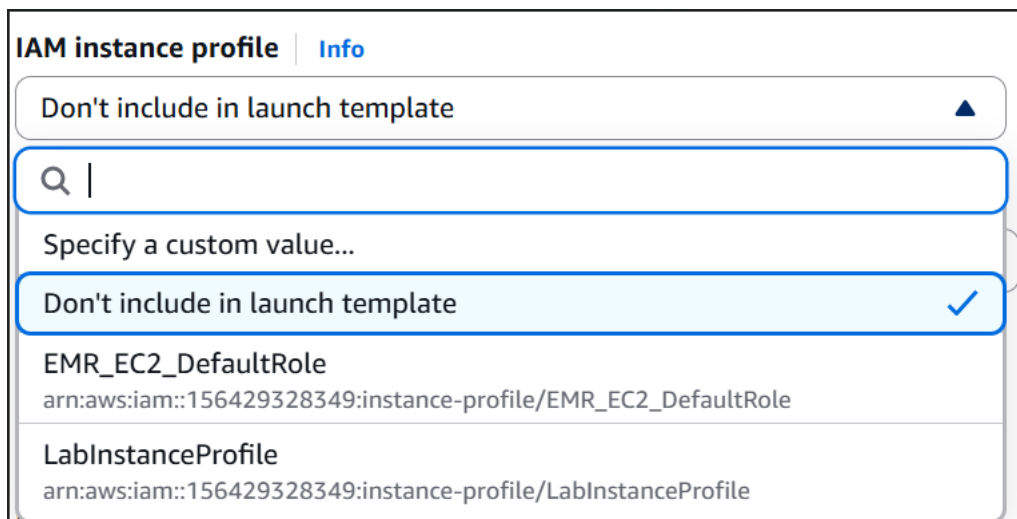
Affiliation: Information Technology University of Punjab, Lahore

Date: 2 January 2026

AWS account setup:



IAM roles & policies:



Used **labinstanceprofile** IAM role.

VPC/subnets/security groups:

aws

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[Alt+S]

United States (N. Virginia)

Account ID: 1564-2932-8349
voclabs/user4452792-bsse23081@itu.edu.pk

VPC > Your VPCs > Create VPC

Name tag - optional

Creates a tag with a key of 'Name' and a value that you specify.

smartsos-vpc

IPv4 CIDR block

Info

☒ IPv4 CIDR manual input

☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR

10.0.0.0/16

CIDR block size must be between /16 and /28.

IPv6 CIDR block

Info

☒ No IPv6 CIDR block

☐ IPAM-allocated IPv6 CIDR block

☐ Amazon-provided IPv6 CIDR block

☐ IPv6 CIDR owned by me

Tenancy

Info

Default

CloudShell

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VPC > Your VPCs > vpc-098c2e06b05643379

You successfully created vpc-098c2e06b05643379 / smartsos-vpc

vpc-098c2e06b05643379 / smartsos-vpc

Actions

Details

Info

VPC ID

vpc-098c2e06b05643379

DNS resolution

Enabled

Main network ACL

acl-09dcffdb8c3877b5

IPv6 CIDR (Network border group)

-

Encryption control ID

-

State

Available

Tenancy

default

Default VPC

No

Network Address Usage metrics

Disabled

Encryption control mode

-

Block Public Access

Off

DHCP option set

dopt-0533fddb6ea82845f

IPv4 CIDR

10.0.0.0/16

Route 53 Resolver DNS Firewall rule groups

Failed to load rule groups

DNS hostnames

Disabled

Main route table

rtb-0b44d32a2c5e4dc16

IPv6 pool

-

Owner ID

156429328349

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VPC > Subnets

You have successfully created 1 subnet: subnet-08c8d9022a4c244f9

Subnets (1)

Info

Last updated less than a minute ago

Actions

Create subnet

Find subnets by attribute or tag

Subnet ID: subnet-08c8d9022a4c244f9

Clear filters

☐

Name

☐

smartsos-public-a

☐

Subnet ID

☐

subnet-08c8d9022a4c244f9

☐

State

☐

Available

☐

VPC

☐

vpc-098c2e06b05643379 | sma...

Select a subnet

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VPC > Subnets

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Route servers

Security

You have successfully created 1 subnet: subnet-0daf9878972817e0a

Subnets (1) Info

Last updated less than a minute ago

Actions

Create subnet

Find subnets by attribute or tag

Subnet ID : subnet-0daf9878972817e0a

Clear filters

<input type="checkbox"/>	Name	Subnet ID	State	VPC
<input type="checkbox"/>	smartsos-public-b	subnet-0daf9878972817e0a	Available	vpc-098c2e06b05643379 sma...

Select a subnet

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VPC > Subnets

Virtual private cloud

Your VPCs

Subnets

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Managed prefix lists

NAT gateways

Peering connections

Route servers

Security

You have successfully created 1 subnet: subnet-00c2d6145111cbaaa

Subnets (1) Info

Last updated less than a minute ago

Actions

Create subnet

Find subnets by attribute or tag

Subnet ID : subnet-00c2d6145111cbaaa

Clear filters

<input type="checkbox"/>	Name	Subnet ID	State	VPC
<input type="checkbox"/>	smartsos-private-a	subnet-00c2d6145111cbaaa	Available	vpc-098c2e06b05643379 sma...

Select a subnet

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VPC > Subnets

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Route servers

Security

You have successfully created 1 subnet: subnet-044179ed229d82a79

Subnets (1) Info

Last updated less than a minute ago

Actions

Create subnet

Find subnets by attribute or tag

Subnet ID : subnet-044179ed229d82a79

Clear filters

<input type="checkbox"/>	Name	Subnet ID	State	VPC
<input type="checkbox"/>	smartsos-private-b	subnet-044179ed229d82a79	Available	vpc-098c2e06b05643379 sma...

Select a subnet

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Account ID: 1564-2932-8349
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VPC

Route tables

rtb-0882b37270609fd49

VPC dashboard

AWS Global View

Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

rtb-0882b37270609fd49 / smartsos-public-rt

Actions

Details

Info

Route table ID
rtb-0882b37270609fd49

VPC
vpc-098c2e06b05643379 | smartsos-vpc

Main
No

Owner ID
156429328349

Explicit subnet associations
-

Edge associations
-

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (1)

Filter routes

Both

Edit routes

Destination	Target	Status	Propagated	Route Origin
10.0.0.0/16	local	Active	No	Create Route Table

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VPC

Route tables

rtb-0882b37270609fd49

Edit routes

Edit routes

Destination

10.0.0.0/16

Target

local

Status

Active

Propagated

No

Route Origin

CreateRouteTable

0.0.0.0/0

local

Internet Gateway

igw-0d6b5d46835cb91ff

-

No

CreateRoute

Remove

Add route

CancelPreviewSave changes

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VPC

Route tables

rtb-0882b37270609fd49

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2/4)

Filter subnet associations

	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input type="checkbox"/>	smartsos-private-b	subnet-044179ed229d82a79	10.0.4.0/24	-	Main (rtb-0b44d32a2c5e4dc16)
<input type="checkbox"/>	smartsos-private-a	subnet-00c2d6145111cbaaa	10.0.3.0/24	-	Main (rtb-0b44d32a2c5e4dc16)
<input checked="" type="checkbox"/>	smartsos-public-a	subnet-08c8d9022a4c244f9	10.0.1.0/24	-	Main (rtb-0b44d32a2c5e4dc16)
<input checked="" type="checkbox"/>	smartsos-public-b	subnet-0daf9878972817e0a	10.0.2.0/24	-	Main (rtb-0b44d32a2c5e4dc16)

Selected subnets

subnet-08c8d9022a4c244f9 / smartsos-public-a

subnet-0daf9878972817e0a / smartsos-public-b

CancelSave associations

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VPC > Route tables > rtb-0cd86d3d4187a7914

Route table rtb-0cd86d3d4187a7914 | smartsos-private-rt was created successfully.

rtb-0cd86d3d4187a7914 / smartsos-private-rt

Actions

Details info

Route table ID rtb-0cd86d3d4187a7914	Main No	Explicit subnet associations -	Edge associations -
VPC vpc-098c2e06b05643379 smartsos-vpc	Owner ID 156429328349		

Routes Subnet associations Edge associations Route propagation Tags

Routes (1)

Filter routes

Destination	Target	Status	Propagated	Route Origin
-------------	--------	--------	------------	--------------

https://us-east-1.console.aws.amazon.com/console/home?region=us-east-1 © 2026, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

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EC2 > Security Groups > sg-06f7fb458f62c8242 - smartsos-app-sg

Security group (sg-06f7fb458f62c8242 | smartsos-app-sg) was created successfully

sg-06f7fb458f62c8242 - smartsos-app-sg

Actions

Details

Security group name smartsos-app-sg	Security group ID sg-06f7fb458f62c8242	Description Security group for SmartSOS EC2 app servers	VPC ID vpc-098c2e06b05643379
Owner 156429328349	Inbound rules count 0 Permission entries	Outbound rules count 1 Permission entry	

Inbound rules Outbound rules Sharing VPC associations Tags

Inbound rules

Search Manage tags Edit inbound rules

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EC2 > Security Groups > sg-01a25cfe348edda20 - smartsos-db-sg

Security group (sg-01a25cfe348edda20 | smartsos-db-sg) was created successfully

sg-01a25cfe348edda20 - smartsos-db-sg

Actions

Details

Security group name smartsos-db-sg	Security group ID sg-01a25cfe348edda20	Description Security group for SmartSOS RDS	VPC ID vpc-098c2e06b05643379
Owner 156429328349	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

Inbound rules Outbound rules Sharing VPC associations Tags

Inbound rules (1)

Search Manage tags Edit inbound rules

	Name	Security group rule ID	IP version	Type	Protocol
<input type="checkbox"/>	-	sgr-050762e89201789ec	-	MYSQL/Aurora	TCP

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EC2 > Security Groups > sg-01a950f0e1716abfa - smartsos-alb-sg

AMIs
AMI Catalog
▼ Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
▼ Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
▼ Load Balancing
Load Balancers
Target Groups

Security group (sg-01a950f0e1716abfa | smartsos-alb-sg) was created successfully

Details

Security group name smartsos-alb-sg	Security group ID sg-01a950f0e1716abfa	Description Security group for SmartSOS Application Load Balancer	VPC ID vpc-098c2e06b05643379
Owner 156429328349	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

Inbound rules Outbound rules Sharing VPC associations Tags

Inbound rules (1)

Name	Security group rule ID	IP version	Type	Protocol
-	sgr-071c7b42e7f496852	IPv4	HTTP	TCP

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EC2 > Security Groups > sg-0d5b8f68af6cc1ee5 - smartsos-bastion-sg

AMIs
AMI Catalog
▼ Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
▼ Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
▼ Load Balancing
Load Balancers
Target Groups
Trust Stores

Details

Security group name smartsos-bastion-sg	Security group ID sg-0d5b8f68af6cc1ee5	Description smartsos-bastion-sg	VPC ID vpc-098c2e06b05643379
Owner 156429328349	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

Inbound rules Outbound rules Sharing VPC associations Tags

Inbound rules (1)

Name	Security group rule ID	IP version	Type	Protocol
-	sgr-00578757a67cd9725	IPv4	SSH	TCP

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EC2, S3, Lambda, DynamoDB, RDS, API Gateway, or any used service:

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VPC > Internet gateways > igw-0d6b5d46835cb91ff

VPC dashboard < AWS Global View Filter by VPC

Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
Carrier gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways

The following internet gateway was created: igw-0d6b5d46835cb91ff - smartsos-igw. You can now attach to a VPC to enable the VPC to communicate with the internet. Attach to a VPC

igw-0d6b5d46835cb91ff / smartsos-igw Actions

Details info

Internet gateway ID igw-0d6b5d46835cb91ff	State Detached	VPC ID -	Owner 156429328349
--	-------------------	-------------	-----------------------

Tags (1)

Key	Value
Name	smartsos-igw

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VPC > Internet gateways > igw-0d6b5d46835cb91ff

Internet gateway igw-0d6b5d46835cb91ff successfully attached to vpc-098c2e06b05643379

Notifications 0 2 0 0 0

VPC dashboard

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igw-0d6b5d46835cb91ff / smartsos-igw

Actions

Details info

Internet gateway ID
igw-0d6b5d46835cb91ff

State
Attached

VPC ID
vpc-098c2e06b05643379
smartsos-vpc

Owner
156429328349

Tags (1)

Search tags

Key | Value

Name | smartsos-igw

Manage tags

1

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Account ID: 1564-2932-8349
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VPC > NAT gateways > nat-1a0cd09fb8c81aff1

VPC dashboard

AWS Global View

Filter by VPC

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Carrier gateways

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Elastic IPs

Managed prefix lists

NAT gateways

nat-1a0cd09fb8c81aff1 / smartsos-nat

Actions

Details

NAT gateway ID
nat-1a0cd09fb8c81aff1

NAT gateway ARN
arn:aws:ec2:us-east-1:156429328349:natgateway/nat-1a0cd09fb8c81aff1

VPC
vpc-098c2e06b05643379 / smartsos-vpc

Availability mode
Regional

Connectivity type
Public

Method of EIP allocation
Automatic

State
Available

Created
Thursday, January 1, 2026 at 18:38:40 GMT+5

State message info

Deleted

IP addresses

Monitoring

Flow logs

Tags

Associated IP addresses (1)

Search

Edit IP address associations

1

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Aurora and RDS > Databases > Create database

Choose a database creation method

☒ Full configuration
You set all of the configuration options, including ones for availability, security, backups, and maintenance.

☐ Easy create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type info

☒ Aurora (MySQL Compatible)
Aurora (MySQL Compatible)

☐ Aurora (PostgreSQL Compatible)
Aurora (PostgreSQL Compatible)

☐ MySQL
MySQL

☐ PostgreSQL
PostgreSQL

☐ MariaDB
MariaDB

☐ Oracle
ORACLE

☐ Microsoft SQL Server
Microsoft SQL Server

☐ IBM Db2
IBM Db2

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Ask Amazon Q

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Aurora and RDS

Databases

smartsos-db

Aurora and RDS

Databases

Query editor

Performance insights

Snapshots

Exports in Amazon S3

Automated backups

Reserved instances

Proxies

Subnet groups

Parameter groups

Option groups

Custom engine versions

smartsos-db

Summary

DB identifier
smartsos-db

CPU
48.08%

Status
Modifying

Class
db.t3.micro

Role
Instance

Current activity
0 Connections

Engine
MySQL Community

Region & AZ
us-east-1b

Recommendations

Connectivity & security

Monitoring

Logs & events

Configuration

Zero-ETL integrations

Endpoint & port

Networking

Security

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Amazon S3

Buckets

Successfully created bucket "smartsos-evidence"

To upload files and folders, or to configure additional bucket settings, choose View details.

View details

General purpose buckets (1)

Copy ARN

Empty

Delete

Create bucket

Find buckets by name

1

smartsos-evidence

US East (N. Virginia) us-east-1

January 2, 2026, 01:40:39 (UTC+05:00)

Account snapshot

Updated daily

View dashboard

Storage Lens provides visibility into storage usage and activity trends.

External access summary - new

Updated daily

External access findings help you identify bucket permissions that allow public access or access from other AWS accounts.

https://us-east-1.console.aws.amazon.com/console/home?region=us-east-1

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Launch Templates

Launch Templates (1)

Launch Template ID

Launch Template Name

Default Version

Latest Version

Create Time

lt-057d40a656f08bed2

smartsos-app-lt

1

1

2026-01-01T11:00:00.000Z

Select a launch template

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EC2 > Load balancers > smartsos-alb

Lifecycle Manager

▼ Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

▼ Load Balancing

Load Balancers

Target Groups

Trust Stores

▼ Auto Scaling

Auto Scaling Groups

Settings

CloudShell

Feedback

Successfully created load balancer: smartsos-alb

It might take a few minutes for your load balancer to fully set up and route traffic. Targets will also take a few minutes to complete the registration process and pass initial health checks.

smartsos-alb

Actions

Details

Load balancer type

Application

Scheme

Internet-facing

Status

Provisioning

Hosted zone

Z355XD0TRQ7X7K

VPC

[vpc-098c2e06b05643379](#)

Availability Zones

[subnet-08c8d9022a4c244f9](#) us-east-1a (use1-az2)

[subnet-0daf9878972817e0a](#) us-east-1b (use1-az4)

Load balancer IP address type

IPv4

Date created

January 1, 2026, 20:03 (UTC+05:00)

Load balancer ARN

DNS name

Info

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EC2 > Auto Scaling groups

EC2

Dashboard

EC2 Global View

Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Capacity Manager

Images

CloudShell

Feedback

Auto Scaling groups (1)

Info

Launch configurations

Launch templates

Actions

Create Auto Scaling group

Last updated less than a minute ago

Search your Auto Scaling groups

<input type="checkbox"/>	Name	Launch template/configuration	Instances	Status	Desired capacity
<input type="checkbox"/>	smartsos-app-asg	smartsos-app-lt Version Default	1	-	1

0 Auto Scaling groups selected

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EC2 > Instances

Dashboard

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▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Capacity Manager

Images

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Instances (1/3)

Info

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>		i-040ff45364ce01985	Running	m1.small	2/2 checks passed	View alarms	us-east-1a
<input type="checkbox"/>		i-003da0e9a3a0a3b73	Running	m1.small	2/2 checks passed	View alarms	us-east-1a
<input type="checkbox"/>		i-00c3c5c132401882f	Terminated	m1.small	-	View alarms	us-east-1a

i-040ff45364ce01985

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary

Instance ID

[i-040ff45364ce01985](#)

Public IPv4 address

-

Private IPv4 addresses

[10.0.4.68](#)

Instance state

Public DNS

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```
ec2-user@ip-10-0-1-103:~$
(3/8): perl-Error-0.17029-5.amzn2023.0.2.noarch 1.3 MB/s | 41 kB 00:00
(4/8): git-core-2.50.1-1.amzn2023.0.1.x86_64.rpm 50 MB/s | 4.9 MB 00:00
(5/8): perl-File-Find-1.37-477.amzn2023.0.7.noarch 720 kB/s | 25 kB 00:00
(6/8): perl-Git-2.50.1-1.amzn2023.0.1.noarch.rpm 1.2 MB/s | 41 kB 00:00
(7/8): perl-lib-0.65-477.amzn2023.0.7.x86_64.rpm 544 kB/s | 15 kB 00:00
(8/8): perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64 1.1 MB/s | 36 kB 00:00
-----
Total 47 MB/s | 7.9 MB 00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing :
Installing : git-core-2.50.1-1.amzn2023.0.1.x86_64 1/1
Installing : git-core-doc-2.50.1-1.amzn2023.0.1.noarch 1/8
Installing : perl-lib-0.65-477.amzn2023.0.7.x86_64 2/8
Installing : perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64 3/8
Installing : perl-File-Find-1.37-477.amzn2023.0.7.noarch 4/8
Installing : perl-Error-0.17029-5.amzn2023.0.2.noarch 5/8
Installing : perl-Git-2.50.1-1.amzn2023.0.1.noarch 6/8
Installing : git-2.50.1-1.amzn2023.0.1.x86_64 7/8
Running scriptlet: git-2.50.1-1.amzn2023.0.1.x86_64 8/8
Verifying : git-2.50.1-1.amzn2023.0.1.x86_64 8/8
Verifying : git-core-2.50.1-1.amzn2023.0.1.x86_64 1/8
Verifying : git-core-doc-2.50.1-1.amzn2023.0.1.noarch 2/8
Verifying : perl-Error-0.17029-5.amzn2023.0.2.noarch 3/8
Verifying : perl-File-Find-1.37-477.amzn2023.0.7.noarch 4/8
Verifying : perl-Git-2.50.1-1.amzn2023.0.1.noarch 5/8
Verifying : perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64 6/8
Verifying : perl-lib-0.65-477.amzn2023.0.7.x86_64 7/8
Verifying : perl-lib-0.65-477.amzn2023.0.7.x86_64 8/8

Installed:
git-2.50.1-1.amzn2023.0.1.x86_64
git-core-2.50.1-1.amzn2023.0.1.x86_64
git-core-doc-2.50.1-1.amzn2023.0.1.noarch
perl-Error-0.17029-5.amzn2023.0.2.noarch
perl-File-Find-1.37-477.amzn2023.0.7.noarch
perl-Git-2.50.1-1.amzn2023.0.1.noarch
perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64
perl-lib-0.65-477.amzn2023.0.7.x86_64

Complete!
[ec2-user@ip-10-0-1-103 ~]$
```

Monitoring / logging (CloudWatch):



Final output:

SMARTSOS

SELECT SYSTEM INTERFACE



CIVILIAN PORTAL



COMMAND
CENTER