

Project1 :- Working with IAM Roles with S3 and bootstrapping with EC2

Task1: Creating a bootstrapped instance

Services ▾ Mithlesh Kumar ▾ N. Virginia ▾ Support ▾

EC2 > Instances > i-06e9e75ea2e381719 > Edit user data

Edit user data [Info](#)

Instance ID
i-06e9e75ea2e381719 (P1Task1)

Current user data
Current user data

User data currently associated with this instance

```
#!/bin/bash
yum -y install httpd
service httpd start
```

To edit your instance's user data you first need to stop your instance.

Cancel Save

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Instances (1/3) [Info](#)

Filter instances

	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm Status	Availability zone
<input checked="" type="checkbox"/>	P1Task1	i-06e9e75ea2e381719	Running	t2.micro	2/2 checks ...	No alarms +	us-east-1d
<input type="checkbox"/>	P1Task2	i-07a092d78c8a34708	Running	t2.micro	2/2 checks ...	No alarms +	us-east-1d
<input type="checkbox"/>	P1Task3	i-05c32357cdae1df6	Running	t2.micro	2/2 checks ...	No alarms +	us-east-1d

▼ Instance summary [Info](#)

Instance ID i-06e9e75ea2e381719 (P1Task1)	Public IPv4 address 3.88.162.176 open address	Private IPv4 addresses 172.31.83.146
Instance state Running	Public IPv4 DNS ec2-3-88-162-176.compute-1.amazonaws.com open address	Private IPv4 DNS ip-172-31-83-146.ec2.internal
Instance type t2.micro	Elastic IP addresses -	VPC ID vpc-149c6169

Not secure | 3.88.162.176

Test Page

This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at working properly.

If you are a member of the general public:

The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting `www.example.com`, you should send e-mail to "`webmaster@example.com`".

If you are the website administrator:

You may now add content to the directory `/var/www/html/`. Note that until you visiting your website will see this page, and not your content. To prevent this ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome`

You are free to use the image below on web sites powered by the Apache!

Powered by **APACHE** 2.4

Task 2:Checking bucket list and creating a new bucket from EC2 using IAM Roles

Services

Mithlesh Kumar

EC2 > Instances > i-07a092d78c8a34708 > Modify IAM role

Modify IAM role

Attach an IAM role to your instance.

Instance ID

i-07a092d78c8a34708 (P1Task2)

IAM role

Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

s3_full_access

Create new IAM role

Cancel

Save

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Instances (1/3)

Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone
<input type="checkbox"/>	P1Task1	i-06e9e75ea2e381719	Running	t2.micro	2/2 checks ...	No alarms	us-east-1d
<input checked="" type="checkbox"/>	P1Task2	i-07a092d78c8a34708	Running	t2.micro	2/2 checks ...	No alarms	us-east-1d
<input type="checkbox"/>	P1Task3	i-05c32357cdaee1df6	Running	t2.micro	2/2 checks ...	No alarms	us-east-1d

Instance ID

i-07a092d78c8a34708 (P1Task2)

Instance state

Running

Instance type

t2.micro

IAM Role

s3_full_access

Public IPv4 address

3.86.153.6 | open address

Public IPv4 DNS

ec2-3-86-153-6.compute-1.amazonaws.com | open address

Elastic IP addresses

Subnet ID

subnet-ea53ffcb

Private IPv4 addresses

172.31.83.43

Private IPv4 DNS

ip-172-31-83-43.ec2.internal

VPC ID

vpc-149c6169

```
← → ↻ console.aws.amazon.com/ec2/v2/connect/ec2-user/i-07a092d78c8a34708

  _ | ( _ | _ )
  _ | \ _ | _ |   Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
2 package(s) needed for security, out of 13 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-83-43 ~]$ aws s3 ls
[ec2-user@ip-172-31-83-43 ~]$ aws s3 mb s3://mithu162020
make_bucket: mithu162020
[ec2-user@ip-172-31-83-43 ~]$ aws s3 mb s3://mithu162020
make_bucket: mithu162020
[ec2-user@ip-172-31-83-43 ~]$ aws s3 ls
2020-10-16 17:46:19 mithu162020
[ec2-user@ip-172-31-83-43 ~]$ aws s3 mb s3://mithu162020
make_bucket: mithu162020
[ec2-user@ip-172-31-83-43 ~]$ aws s3 mb s3://mithu1620
make_bucket: mithu1620
[ec2-user@ip-172-31-83-43 ~]$ █
```

i-07a092d78c8a34708 (P1Task2)

Public IPs: 3.86.153.6 Private IPs: 172.31.83.43

Task 3: Hosting a webpage using the bootstrap script on ec2.

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EC2 > Instances > i-05c32357cdae1df6 > Edit user data

Edit user data [Info](#)

Instance ID
i-05c32357cdae1df6 (P1Task3)

Current user data
Current user data

User data currently associated with this instance

```
#!/bin/bash
yum install httpd -y
aws s3 cp s3://mithu162020/index.html /var/www/html
service httpd start
chkconfig httpd on
```

To edit your instance's user data you first need to stop your instance.

Cancel Save

aws

Services

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Global

Support

Amazon S3

mithu162020

mithu162020

Overview

Properties

Permissions

Management

Access points

Q

Type a prefix and press Enter to search. Press ESC to clear.

Upload


Create folder

Download

Actions

US East (N. Virginia)

Viewing 1 to 1

<input type="checkbox"/>	Name	Last modified	Size	Storage class
<input type="checkbox"/>	 index.html	Oct 16, 2020 11:21:25 PM GMT+0530	288.0 B	Standard

Viewing 1 to 1

←

→

↺

⚠ Not secure | 3.95.150.96

Welcome to my Web page

Aws Day5and6 Prject1 Task3

Project2: – Creating an EC2 instance in custom VPC

Task1: Create a VPC

Your VPCs (1/2) [Info](#)

< 1 >

<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	-	vpc-149c6169	Available	172.31.0.0/16	-
<input checked="" type="checkbox"/>	p2task1	vpc-06c0a0e7870c7463e	Available	172.19.0.0/16	-

VPC ID
vpc-06c0a0e7870c7463e

Tenancy
Default

Default VPC
No

Owner ID
526568164432

State
Available

DHCP options set
dopt-58e07e22

IPv4 CIDR
172.19.0.0/16

DNS hostnames
Disabled

Route table
rtb-06811bb205ba6bf94

IPv6 pool
-

DNS resolution
Enabled

Network ACL
acl-049963321d25e40d7

IPv6 CIDR (Network Border Group)
-

Task 2: Create an Internet gateway

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Internet gateways (1/2) [Info](#)

< 1 >

<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID
<input type="checkbox"/>	-	igw-02715179	Attached	vpc-149c6169
<input checked="" type="checkbox"/>	p2task2	igw-05f4b6021d78dff78	Attached	vpc-06c0a0e7870c7463e p2task1

Details

Internet gateway ID
igw-05f4b6021d78dff78

State
Attached

VPC ID
vpc-06c0a0e7870c7463e | p2task1

Owner
526568164432

Task3: Create a route table

Create route table

Actions

Filter by tags and attributes or search by keyword

1 to 3 of 3

	Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID
<input checked="" type="checkbox"/>	p2task3	rtb-01eca25b991664e50	-	-	No	vpc-06c0a0e7870c7463e ...
<input type="checkbox"/>		rtb-06811bb205ba6bf94	-	-	Yes	vpc-06c0a0e7870c7463e ...
<input type="checkbox"/>		rtb-3a6c1444	-	-	Yes	vpc-149c6169

Route Table: rtb-01eca25b991664e50

Summary

Routes

Subnet Associations

Edge Associations

Route Propagation

Tags

Edit routes

View All routes

Destination	Target	Status	Propagated
172.19.0.0/16	local	active	No
0.0.0.0/0	igw-05f4b6021d78dff78	active	No

Create subnet

Actions

Filter by tags and attributes or search by keyword

1 to 7 of 7

	Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR	
<input checked="" type="checkbox"/>	p2task4	subnet-07a3801a1c165df88	available	vpc-06c0a0e7870c7463e ...	172.19.0.0/24	251	-	us-
<input type="checkbox"/>		subnet-1d85f1450	available	vpc-149c6169	172.31.16.0/20	4091	-	us-
<input type="checkbox"/>		subnet-48996d79	available	vpc-149c6169	172.31.48.0/20	4091	-	us-
<input type="checkbox"/>		subnet-d64def89	available	vpc-149c6169	172.31.32.0/20	4091	-	us-
<input type="checkbox"/>		subnet-ea53ffcb	available	vpc-149c6169	172.31.80.0/20	4088	-	us-
<input type="checkbox"/>		subnet-efbd1c89	available	vpc-149c6169	172.31.0.0/20	4091	-	us-
<input type="checkbox"/>		subnet-fd7be0f3	available	vpc-149c6169	172.31.64.0/20	4091	-	us-

Subnet: subnet-07a3801a1c165df88

Description

Flow Logs

Route Table

Network ACL

Tags

Sharing

Subnet ID	subnet-07a3801a1c165df88	State	available
VPC	vpc-06c0a0e7870c7463e p2task1	IPv4 CIDR	172.19.0.0/24
Available IPv4 Addresses	251	IPv6 CIDR	-
Availability Zone	us-east-1a (use1-az4)	Network Border Group	us-east-1
Route Table	rtb-06811bb205ba6bf94	Network ACL	acl-049963321d25e40d7
Default subnet	No	Auto assign public IPv4	Yes

Instances (1/1) Info

Filter instances

search: i-018f4f068a4cbd314 X Clear filters

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone
<input checked="" type="checkbox"/>	P2Task5	i-018f4f068a4cbd314	Running	t2.micro	-	No alarms +	us-east-1a

Instance: i-018f4f068a4cbd314

Details Security Networking Storage Status Checks Monitoring Tags

▼ Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-018f4f068a4cbd314	3.80.21.238 open address	172.19.0.90
Instance state	Public IPv4 DNS	Private IPv4 DNS
Running	-	ip-172-19-0-90.ec2.internal

Task 6: Check ipconfig in VM command prompt.

Services

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Connect to instance Info

Connect to your instance i-018f4f068a4cbd314 using any of these options

Session Manager RDP

You can connect to your Windows instance by running the RDP shortcut file below.

Download remote desktop file

When prompted, connect to your instance using the following information:

Public IP

3.80.21.238

Password

7GB0dViCqG(cBGi%oio)

If you've joined your instance to an Amazon WorkSpace directory, you can use the default administrator user.

3.80.21.238 - Remote Desktop Connection

Administrator: Command Prompt

```
Microsoft Windows [Version 10.0.17763.1457]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : ec2.internal
    Link-local IPv6 Address . . . . . : fe80::e59f:76ad:cc2c:7e93%4
    IPv4 Address. . . . . : 172.19.0.90
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 172.19.0.1

C:\Users\Administrator>
```