
Project 1 - Deploying a Multi-Tier Website Using AWS EC2

Topic: Deploy a Multi-tier website using EC2

Description: Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing capacity in the Amazon Web Services (AWS) cloud. Using Amazon EC2 eliminates your need to invest in hardware upfront, so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. Amazon EC2 enables you to scale up or down to handle changes in requirements or spikes in popularity, reducing your need to forecast traffic.

Problem Statement: Company ABC wants to move its product to AWS. They have the following things set up right now:

1. MySQL DB
2. Website (PHP)

The company wants high availability on this product, therefore wants autoscaling to be enabled on this website.

Steps to solve:

1. Launch an EC2 Instance
2. Enable Auto Scaling on these instances (minimum 2)
3. Create an RDS Instance
4. Create Database & Table in RDS Instance
 - Database name: intel
 - Table name: data
 - Database password: intel123
5. Change the hostname on the website
6. Allow traffic from EC2 to RDS Instance
7. Allow all traffic to the EC2 instance

Screenshot of the AWS Management Console showing the EC2 Instances page. A single instance named "SAINATH-project" (i-06eea463f4ff7585a) is listed as "Running" (t2.micro). The instance details panel shows the Public IPv4 address (43.205.117.125), Instance state (Running), Hostname type (IP name: ip-172-31-37-243.ap-south-1.compute.internal), and Private IP DNS name (ip-172-31-37-243.ap-south-1.compute.internal).

Screenshot of the AWS Management Console showing the RDS MySQL creation wizard. The "Standard create" option is selected. The "Engine options" section shows MySQL as the chosen engine type. The MySQL details panel provides information about MySQL's popularity and features, including support for up to 64 TiB database size and 15 Read Replicas per instance.

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should [replace this file](#) (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|-- mods-enabled
|   |-- *.Load
|   |-- *.Preload
```



Choose a sample template to meet your use case.

- Production Use defaults for high availability and fast, consistent performance.
- Dev/Test This instance is intended for development use outside of a production environment.
- Free tier Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.
[Info](#)

Availability and durability

Deployment options [Info](#)

The deployment options below are limited to those supported by the engine you selected above.

- Multi-AZ DB Cluster - new Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.
- Multi-AZ DB Instance (not supported for Multi-AZ DB cluster snapshot) Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.
- Single DB Instance (not supported for Multi-AZ DB cluster snapshot) Creates a single DB instance with no standby DB instances.

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```
ubuntu@ip-172-31-37-243:~$ sudo add-apt-repository -y ppa:ondrej/php
PPA publishes debug symbols, you may need to include 'main/debug' component
Repository: 'deb https://ppa.launchpadcontent.net/ondrej/php/ubuntu/ jammy main'
Description:
Co-installable PHP versions: PHP 5.6, PHP 7.x and most requested extensions are included. Only Supported Versions of PHP (http://php.net/supported-versions.php) for Supported Ubuntu Releases (https://wiki.ubuntu.com/Releases) are provided. Don't ask for end-of-life PHP versions or Ubuntu release, they won't be provided.

Debian oldstable and stable packages are provided as well: https://deb.sury.org/#debian-dpa
You can get more information about the packages at https://deb.sury.org
IMPORTANT: The <foo>-backports is now required on older Ubuntu releases.

BUGS&FEATURES: This PPA now has a issue tracker:
https://deb.sury.org/#bug-reporting

CAVEATS:
1. If you are using php-gearman, you need to add ppa:ondrej/pkg-gearman
2. If you are using apache2, you are advised to add ppa:ondrej/apache2
3. If you are using nginx, you are advised to add ppa:ondrej/nginx
or ppa:ondrej/nginx
```

i-06eea463f4ff7585a (SAINATH-project)

PublicIPs: 43.205.117.125 PrivateIPs: 172.31.37.243



```
PLEASE READ: If you like my work and want to give me a little motivation, please consider donating regularly: https://donate.sury.org/
WARNING: add-apt-repository is broken with non-UTF-8 locales, see
https://github.com/oerdnj/deb.sury.org/issues/56 for workaround:

# LC_ALL=C.UTF-8 add-apt-repository ppa:ondrej/php
More info: https://launchpad.net/~ondrej/+archive/ubuntu/php
Adding repository.
Adding deb entry to /etc/apt/sources.list.d/ondrej-ubuntu-php-jammy.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/ondrej-ubuntu-php-jammy.list
Adding key to /etc/apt/trusted.gpg.d/ondrej-ubuntu-php.gpg with fingerprint 14AA40EC0831756756D7F66C4F4EA0AAE5267A6C
Hit:1 http://ap-south-1.ec2.archive.amazonaws.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.amazonaws.com/ubuntu jammy-updates InRelease [114 kB]
Get:3 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:4 http://ap-south-1.ec2.archive.amazonaws.com/ubuntu jammy-backports InRelease [99.8 kB]
Get:5 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy InRelease [23.9 kB]
Get:6 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main amd64 Packages [108 kB]
Get:7 https://ppa.launchpadcontent.net/ondrej/php/ubuntu jammy/main Translation-en [33.3 kB]
Fetched 490 kB in 2s (204 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-37-243:~
```

i-06eea463f4ff7585a (SAINATH-project)

PublicIPs: 43.205.117.125 PrivateIPs: 172.31.37.243



```
ubuntu@ip-172-31-37-243:~$ sudo apt install php5.6 mysql-client php5.6-mysql
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
libapache2-mod-php5.6 mysql-client-8.0 mysql-client-core-8.0 mysql-common php-common php5.6-cli php5.6-common php5.6-json php5.6-opcache php5.6-readline
Suggested packages:
php-pear
The following NEW packages will be installed:
libapache2-mod-php5.6 mysql-client mysql-client-core-8.0 mysql-common php-common php5.6 php5.6-cli php5.6-common php5.6-json php5.6-mysql
php5.6-opcache php5.6-readline
0 upgraded, 13 newly installed, 0 to remove and 27 not upgraded.
Need to get 6782 kB of archives.
After this operation, 77.0 MB of additional disk space will be used.
Do you want to continue? [Y/n] 
```

i-06eea463f4ff7585a (SAINATH-project)

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```
Creating config file /etc/php/5.6/apache2/php.ini with new version
Module mpm_event disabled.
Enabling module mpm_prefork.
apache2: switch mpm to prefork
apache2: invoke-rc.d: Enable module php5.6
Setting up php5.6 (5.6.40-63+ubuntu22.04.1+deb.sury.org+2) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for php5.6-cli (5.6.40-63+ubuntu22.04.1+deb.sury.org+2) ...
Processing triggers for libapache2-mod-php5.6 (5.6.40-63+ubuntu22.04.1+deb.sury.org+2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

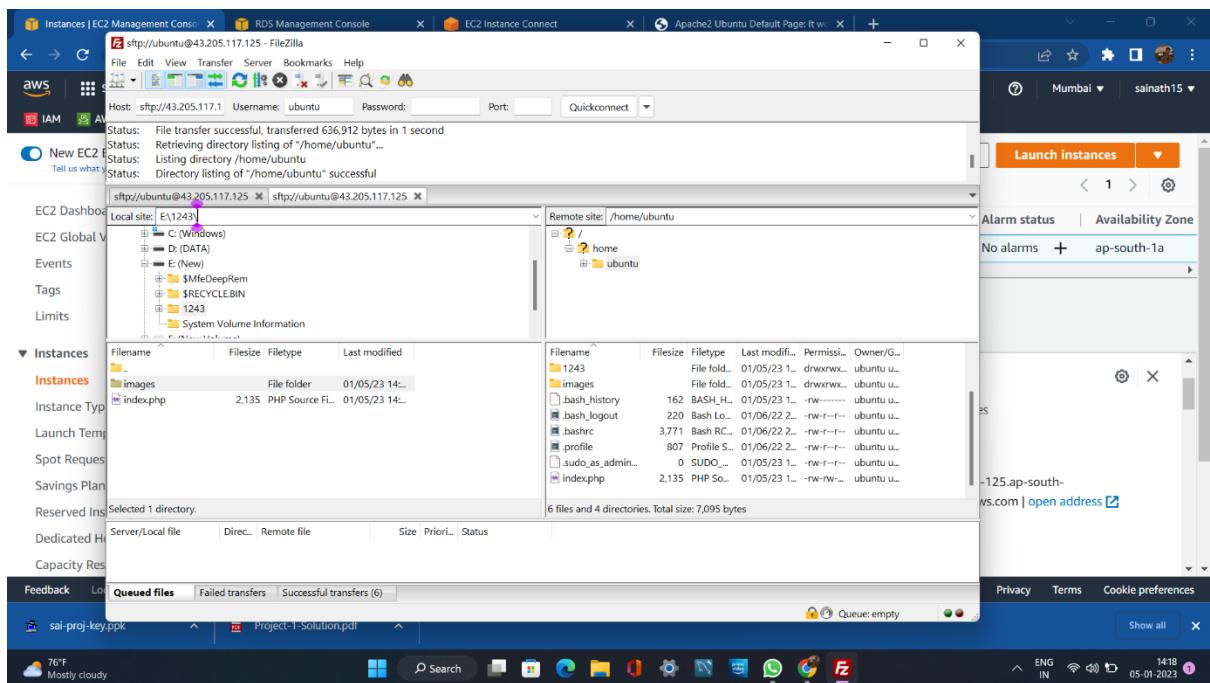
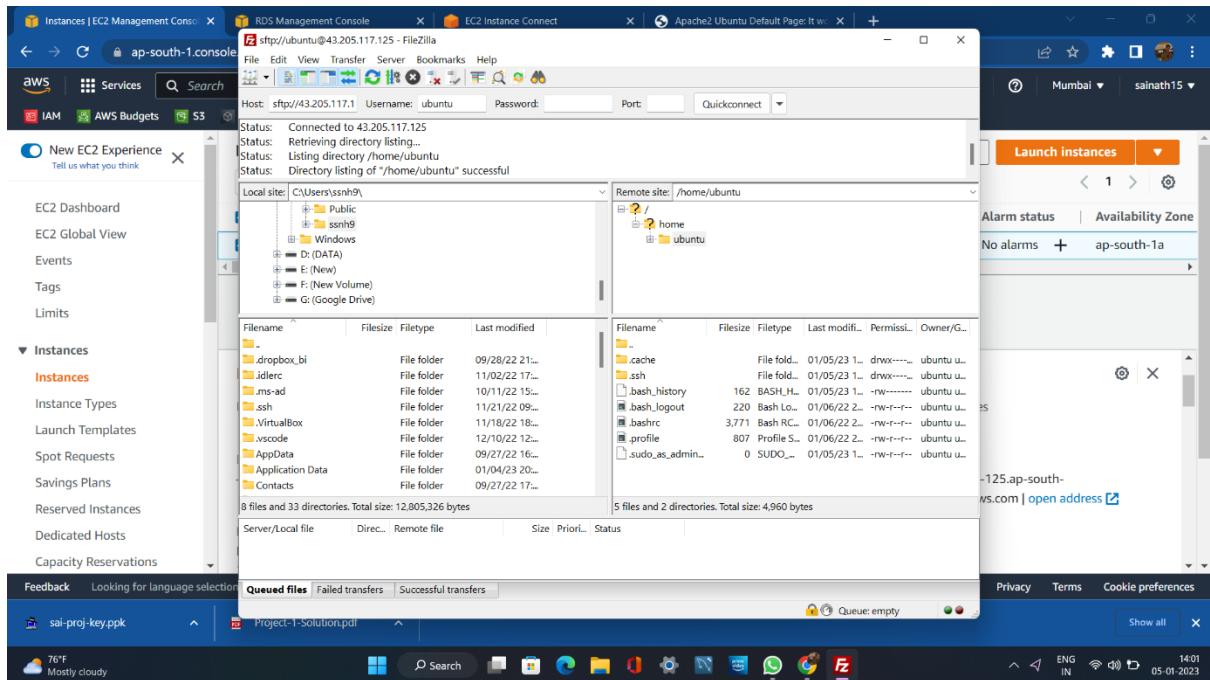
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-37-243:~$ 
```

i-06eea463f4ff7585a (SAINATH-project)

PublicIPs: 43.205.117.125 PrivateIPs: 172.31.37.243





```

Instances | EC2 Management Console | RDS Management Console | EC2 Instance Connect | Apache2 Ubuntu Default Page: It w... | + | - | X
← → C ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06eea463f4ff7585a&osUser=ubuntu&region=ap-south-1&sshP... | + | Mumbai | salinath15 | 
aws Services Search [Alt+S] | 
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Documentation: https://help.ubuntu.com
Management: https://landscape.canonical.com
Support: https://ubuntu.com/advantage

System information as of Thu Jan 5 08:49:33 UTC 2023

System load: 0.0 Processes: 111
Usage of /: 23.4% of 7.57GB Users logged in: 0
Memory usage: 26% IPv4 address for eth0: 172.31.37.243
Swap usage: 0%

18 updates can be applied immediately.
6 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Last login: Thu Jan 5 07:04:41 2023 from 13.233.177.3
ubuntu@ip-172-31-37-243:~$ ls
1243 images index.php
ubuntu@ip-172-31-37-243:~$ 

i-06eea463f4ff7585a (SAINATH-project)
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ENG IN 1419 05-01-2023 | 
Instances | EC2 Management Console | RDS Management Console | EC2 Instance Connect | Apache2 Ubuntu Default Page: It w... | + | - | X
← → C ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06eea463f4ff7585a&osUser=ubuntu&region=ap-south-1&sshP... | + | Mumbai | salinath15 | 
aws Services Search [Alt+S] | 
IAM AWS Budgets S3 Console Home EC2 VPC RDS DynamoDB FSx EPS AWS Billing Conductor AWS Cost Explorer | 
Documentation: https://help.ubuntu.com
Management: https://landscape.canonical.com
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Memory usage: 26% IPv4 address for eth0: 172.31.37.243
Swap usage: 0%

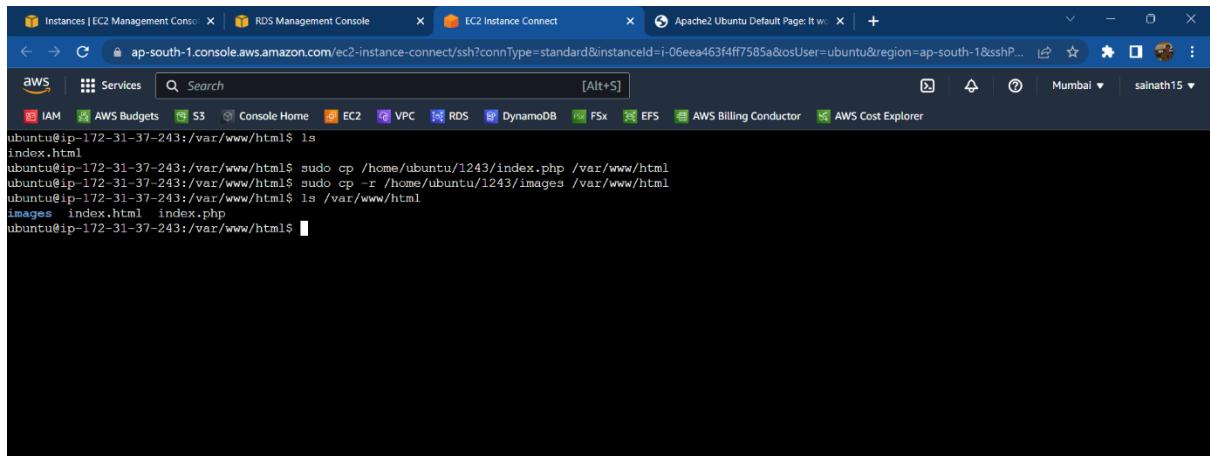
18 updates can be applied immediately.
6 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Last login: Thu Jan 5 07:04:41 2023 from 13.233.177.3
ubuntu@ip-172-31-37-243:~$ ls
1243 images index.php
ubuntu@ip-172-31-37-243:~$ 

i-06eea463f4ff7585a (SAINATH-project)
PublicIPs: 43.205.117.125 PrivateIPs: 172.31.37.243

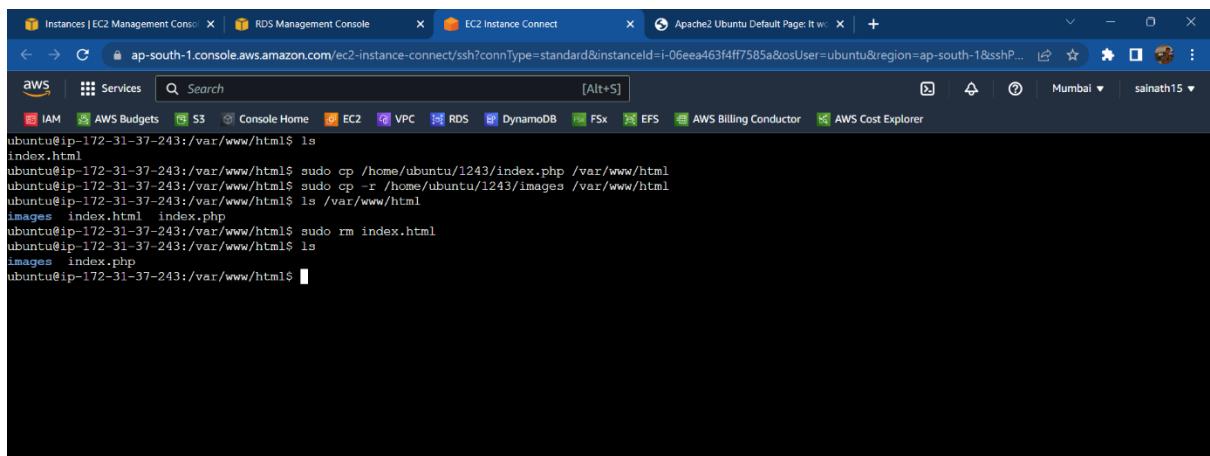
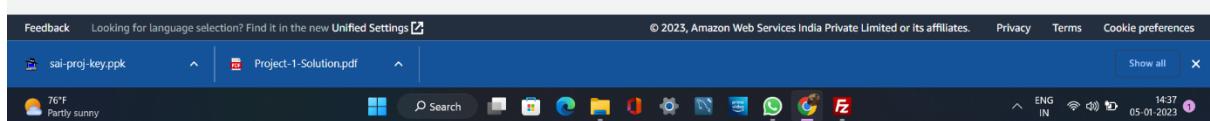
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```



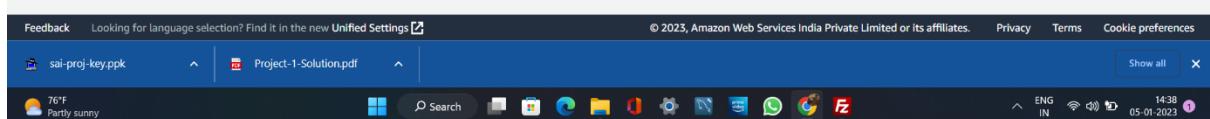
```
ubuntu@ip-172-31-37-243:/var/www/html$ ls
index.html
ubuntu@ip-172-31-37-243:/var/www/html$ sudo cp /home/ubuntu/1243/index.php /var/www/html
ubuntu@ip-172-31-37-243:/var/www/html$ sudo cp -r /home/ubuntu/1243/images /var/www/html
ubuntu@ip-172-31-37-243:/var/www/html$ ls /var/www/html
images index.html index.php
ubuntu@ip-172-31-37-243:/var/www/html$
```

i-06eea463f4ff7585a (SAINATH-project)
PublicIPs: 43.205.117.125 PrivateIPs: 172.31.37.243



```
ubuntu@ip-172-31-37-243:/var/www/html$ ls
index.html
ubuntu@ip-172-31-37-243:/var/www/html$ sudo cp /home/ubuntu/1243/index.php /var/www/html
ubuntu@ip-172-31-37-243:/var/www/html$ sudo cp -r /home/ubuntu/1243/images /var/www/html
ubuntu@ip-172-31-37-243:/var/www/html$ ls /var/www/html
images index.html index.php
ubuntu@ip-172-31-37-243:/var/www/html$ sudo rm index.html
ubuntu@ip-172-31-37-243:/var/www/html$ ls
images index.php
ubuntu@ip-172-31-37-243:/var/www/html$
```

i-06eea463f4ff7585a (SAINATH-project)
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The screenshot shows a web browser window with three tabs open: 'Instances | EC2 Management Console', 'RDS Management Console', and 'EC2 Instance Connect'. The main content area displays a form with fields for 'Name:' and 'Email:', a 'Submit' button, and a message: 'Connection failed: php_network_getaddresses: getaddrinfo failed: Name or service not known'. The background features a watermark for 'IntelliPaat'.

The desktop environment includes a terminal window titled 'sai-proj-key.ppk' and a PDF viewer window titled 'Project-1-Solution.pdf'. The system tray shows the date and time as '05-01-2023 14:39'.

The screenshot shows the 'Amazon RDS' console under the 'Services' tab. A success message 'Successfully created database database-1' is displayed. The 'Databases' section lists 'database-1' with details: Instance 'MySQL Community', Engine 'ap-south-1c', and Size 'db.t3.micro'. The left sidebar includes links for Dashboard, Databases, Query Editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, and Custom engine versions.

The desktop environment includes a terminal window titled 'sai-proj-key.ppk' and a PDF viewer window titled 'Project-1-Solution.pdf'. The system tray shows the date and time as '05-01-2023 14:42'.

EC2 Management Console | RDS Management Console | EC2 Instance Connect | 43.205.117.125 | + | - | X

[Services](#) [Alt+S]

IAM AWS Budgets S3 Console Home EC2 VPC RDS DynamoDB FSx EPS AWS Billing Conductor AWS Cost Explorer

```
ubuntu@ip-172-31-37-243:/var/www/html$ ls /var/www/html
images index.html index.php
ubuntu@ip-172-31-37-243:/var/www/html$ sudo rm index.html
ubuntu@ip-172-31-37-243:/var/www/html$ ls
images index.php
ubuntu@ip-172-31-37-243:/var/www/html$ sudo mysql -h
mysql: [ERROR] mysql: option '-h' requires an argument.
ubuntu@ip-172-31-37-243:/var/www/html$ sudo mysql -h database-1.cgnwrzb3lp6p.ap-south-1.rds.amazonaws.com -u admin -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 34
Server version: 8.0.30 Source distribution

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> 
```

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EC2 Management Console | RDS Management Console | EC2 Instance Connect | 43.205.117.125 | + | - | X

[Services](#) [Alt+S]

IAM AWS Budgets S3 Console Home EC2 VPC RDS DynamoDB FSx EPS AWS Billing Conductor AWS Cost Explorer

```
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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show database;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'dat
base' at line 1
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.00 sec)

mysql> 
```

i-06eea463f4ff7585a (SAINATH-project)
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EC2 Management Console | RDS Management Console | EC2 Instance Connect | 43.205.117.125 | +

Services | Search | [Alt+S]

IAM AWS Budgets S3 Console Home EC2 VPC RDS DynamoDB FSx EPS AWS Billing Conductor AWS Cost Explorer

```
GNU nano 6.2
index.php +
<form></td>
<td colspan="4"></td>
</tr>
</div>
</div>
<?php
$firstname=$_POST['firstname'];
$email=$_POST['email'];
$servername = "database-1.cqnwrzb3lp6p.ap-south-1.rds.amazonaws.com";
$username = "admin";
$password = "intel123";
$db = "intel";
// Create connection
$conn = new mysqli($servername, $username, $password, $db);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Select a database
$conn->select_db("intel");

// Insert data into the table
$sql = "INSERT INTO users (firstname, email) VALUES ('$firstname', '$email')";

if ($conn->query($sql)) {
    echo "New record created successfully";
} else {
    echo "Error: " . $conn->error;
}

$conn->close();

```

Help Exit Write Out Where Is Cut Execute Location Undo Set Mark To Bracket

Read File Replace Paste Justify Go To Line Redo Copy Where Was

i-06eea463f4ff7585a (SAINATH-project)

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EC2 Management Console | RDS Management Console | EC2 Instance Connect | 43.205.117.125 | +

Services | Search | [Alt+S]

IAM AWS Budgets S3 Console Home EC2 VPC RDS DynamoDB FSx EPS AWS Billing Conductor AWS Cost Explorer

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use intel;
Database changed
mysql> create table data (firstname varchar(20),email varchar(30));
Query OK, 0 rows affected (0.03 sec)

mysql> describe data;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'desc
ribe data' at line 1
mysql> describe data;
+-----+-----+-----+-----+-----+
| Field | Type  | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| firstname | varchar(20) | YES |   | NULL |       |
| email | varchar(30) | YES |   | NULL |       |
+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> 
```

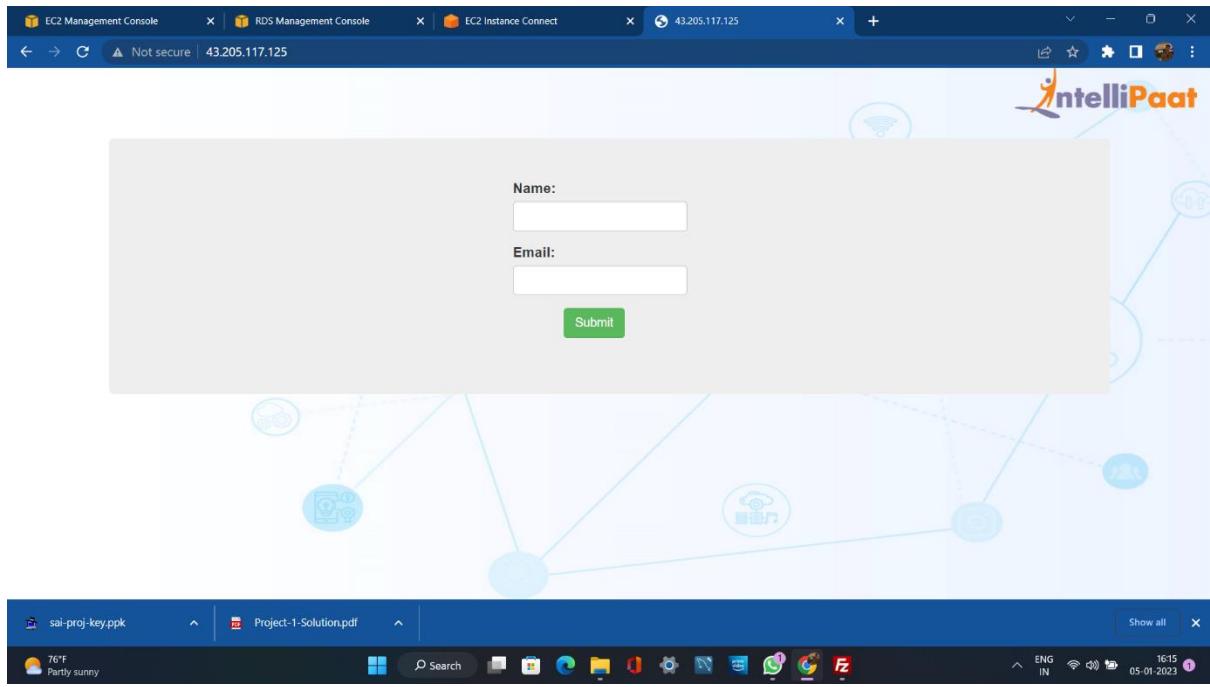
i-06eea463f4ff7585a (SAINATH-project)

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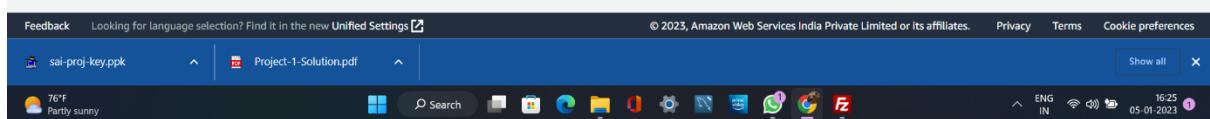


```
i-06eea463f4ff7585a (SAINATH-project)
Public IPs: 43.205.117.125 Private IPs: 172.31.37.243

mysql> use intel;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> select *from data
      > select * from data;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select * from data' at line 2
mysql> select * from data;
+-----+-----+
| firstname | email           |
+-----+-----+
| sainath  | shalesainath15022@gmail.com
| ravi     | rav145@gmail.com
| deepa    | deepa@gmail.com
+-----+-----+
3 rows in set (0.00 sec)

mysql>
```



Screenshot of the AWS CloudFormation console showing the creation of an Auto Scaling group.

The top navigation bar includes tabs for "Create Auto Scaling group | EC2 Manager", "RDS Management Console", "EC2 Instance Connect", and the URL "ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateAutoScalingGroup".

The main content area shows the "Launch configuration" step of the wizard. It displays the following information:

- Launch configuration info:** A note states: "Instead of using launch configurations to create your EC2 Auto Scaling groups, we recommend that you use launch templates and make use of the Auto Scaling guidance option. For more information on migrating launch configurations and using launch templates, see the documentation." A "Switch to launch template" link is available.
- Launch configuration details:**
 - Launch configuration:** sai-project-Lc
 - AMI ID:** ami-0859282db3e3858fc
 - Date created:** Thu Jan 05 2023 16:38:08 GMT+0530 (India Standard Time)
 - Security groups:** sg-04ed80e29b2df2f7e
 - Instance type:** t2.micro
 - Key pair name:** sai-proj-key

The sidebar on the left lists optional steps: Step 5 (optional) Add notifications, Step 6 (optional) Add tags, and Step 7 Review.

The bottom of the screen shows the Windows taskbar with icons for File Explorer, Search, Task View, Start, Control Panel, Settings, and others. The system tray shows the date and time as 05-01-2023 16:43.

Screenshot of the AWS CloudFormation console showing the details of the created Auto Scaling group.

The top navigation bar includes tabs for "Auto Scaling groups | EC2 Manager", "RDS Management Console", "EC2 Instance Connect", and the URL "ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#AutoScalingGroups:id=asg-project;view=details".

The main content area shows the "Auto Scaling groups (1/1)" table:

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max
asg-project	sai-project-Lc	0	Updating capacity...	3	2	5

The "Auto Scaling group: asg-project" details page is shown below, displaying the following configuration:

Desired capacity	3	Auto Scaling group name	asg-project
Minimum capacity	2	Date created	Thu Jan 05 2023 16:43:15 GMT+0530 (India Standard Time)
Maximum capacity	5	Amazon Resource Name (ARN)	

The bottom of the screen shows the Windows taskbar with icons for File Explorer, Search, Task View, Start, Control Panel, Settings, and others. The system tray shows the date and time as 05-01-2023 16:43.

The screenshot shows the AWS Management Console interface for creating a launch configuration and managing an Auto Scaling group.

Launch Configuration Creation:

- The browser address bar shows: ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchConfigurations:
- The AWS Services navigation bar includes EC2, VPC, RDS, and others.
- A success message: "Successfully created launch configuration: sai-project-Lc".
- The Launch configurations table shows one entry:

Name	AMI ID	Instance type	Spot price	Creation time
sai-project-Lc	ami-0859282db3...	t2.micro	-	Thu Jan 05 2023 16:58:08 GMT+0530 (India Standard Time)

Auto Scaling Group Management:

- The browser address bar shows: ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#AutoScalingGroupDetails:id=asg-sai;view=scaling
- The AWS Services navigation bar includes EC2, VPC, RDS, and others.
- A success message: "Dynamic scaling policy created or edited successfully."
- The Auto Scaling groups table shows one entry:

scale-down	scale-up
Step scaling	Step scaling

The screenshot shows the AWS CloudWatch Metrics console with two scaling policies defined:

- scale-down**: Step scaling, Enabled. Breaches the alarm threshold: CPUUtilization <= 50 for 1 consecutive periods of 60 seconds for the metric dimensions: AutoScalingGroupName = asg-sai. Add 1 capacity units when 50 >= CPUUtilization > -infinity. 300 seconds to warm up after each step.
- scale-up**: Step scaling, Enabled. Breaches the alarm threshold: CPUUtilization >= 80 for 1 consecutive periods of 60 seconds for the metric dimensions: AutoScalingGroupName = asg-sai. Add 2 capacity units when 80 <= CPUUtilization < +infinity. 300 seconds to warm up after each step.

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The screenshot shows the AWS EC2 Auto Scaling Groups page for the group **asg-sai**. The **Automatic scaling** tab is selected. A success message is displayed: **Dynamic scaling policy created or edited successfully.**

Details **Activity** **Automatic scaling** **Instance management** **Monitoring** **Instance refresh**

Dynamic scaling policies (2) Info C Actions Create dynamic scaling policy

scale-down: Step scaling, Enabled. **scale-up**: Step scaling, Enabled.

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Screenshot of the AWS Management Console showing the EC2 Instances page. The user has selected an AMI named 'sainath-project-ami'.

Amazon Machine Images (AMIs) (1/1)

Name	AMI ID	AMI name	Source	Owner
-	ami-0859282db3e3858fc	sainath-project-ami	281762697759/sainath-project-ami	281762697759

AMI ID: ami-0859282db3e3858fc

Details	Permissions	Storage	Tags
AMI ID ami-0859282db3e3858fc	Image type machine	Platform details Linux/UNIX	Root device type EBS
AMI name sainath-project-ami	Owner account ID 281762697759	Architecture x86_64	Usage operation RunInstances
Root device name	Status	Source	Virtualization type

Screenshot of the AWS Management Console showing the Auto Scaling group details page for 'asg-sai'.

Group details

Desired capacity 3	Auto Scaling group name asg-sai
Minimum capacity 2	Date created Thu Jan 05 2023 17:20:53 GMT+0530 (India Standard Time)
Maximum capacity 5	Amazon Resource Name (ARN) arn:aws:autoscaling:ap-south-1:281762697759:autoScalingGroup:abe9f797-a5b7-4244-8382-ac67b1419c17:autoScalingGroupName/asg-sai

The screenshot shows a browser window with multiple tabs open. The top tab is titled 'Instances | EC2 Manager' and the bottom tab is 'CloudWatch Metrics'. The main content area displays the AWS Management Console interface.

IntelliPaat Landing Page:

- Name: [Input Field]
- Email: [Input Field]
- Submit

AWS Management Console - Instances (1/7) Info:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
-	i-0546c7f878b8a2b66	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a
-	i-0df990be0174ce03	Terminated	t2.micro	-	No alarms	ap-south-1a
-	i-05218efb3c8fd33e9	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a
-	i-0242cb23c468fb463	Terminated	t2.micro	-	No alarms	ap-south-1b
<input checked="" type="checkbox"/>	i-098a8825821ae3574	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1b
<input type="checkbox"/>	i-00634614c81a69fd0	Terminated	t2.micro	-	No alarms	ap-south-1b

Details for Instance i-098a8825821ae3574:

- Public IPv4 address copied: 3.110.224.41
- Private IPv4 addresses: 172.31.12.135
- Public IPv4 DNS: 3.110.224.41

Bottom Navigation Bar:

- sai-proj-key.ppk
- Project-1-Solution.pdf
- Search
- CloudWatch Metrics
- RDS Management
- EC2 Instance Connect
- 43.205.117.125
- 52.66.195.67
- New Tab
- Show all
- ENG IN
- 17:46
- 05-01-2023

