

Day-6

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The topic that is being covered is Database and one of the most used database service in AWS is RDS. The term RDS stands for Relational Database Service. The types of database that are accepted by RDS are as follows:

- Amazon Aurora (MySQL and PostgreSQL compatible)
- MySQL
- PostgreSQL
- MariaDB
- Oracle
- SQL Server

Policies Dashboard:

The screenshot shows the AWS Amazon RDS console dashboard. The left sidebar contains navigation links for Amazon RDS, including Dashboard, Databases, Query Editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, Custom engine versions, Zero-ETL integrations, Events, Event subscriptions, and Recommendations. The main content area is divided into several sections: 'Resources' showing a summary of RDS resources in the US East (N. Virginia) region, including DB Instances, Allocated storage, DB Clusters, Reserved instances, Snapshots, Manual DB Clusters, Automated DB Clusters, Recent events, and Event subscriptions; 'Recommended services' with a message that no recommendations are yet; 'Recommended for you' with links to 'Amazon RDS Backup and Restore using AWS Backup', 'Time-Series Tables in PostgreSQL', 'Migrate SSRS to RDS for SQL Server', and 'Implementing Cross-Region DR'; and a 'Create database' section with a 'Create database' button and a 'Restore from S3' button.

Criteria are defined in an RDS:

DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

dwijtestdatabase-1

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 63 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ Credentials Settings

Master username [Info](#)

Type a login ID for the master user of your DB instance.

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1 to 16 alphanumeric characters. The first character must be a letter.

Credentials management

You can use AWS Secrets Manager or manage your master user credentials.

☐ Managed in AWS Secrets Manager - most secure

RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.

☒ Self managed

Create your own password or have RDS create a password that you manage.

☐ Auto generate password

Amazon RDS can generate a password for you, or you can specify your own password.

Master password [Info](#)

Password strength

Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / * @

Confirm master password [Info](#)

Creation of Database:

Databases (1) Group resources Modify Actions Restore from S3 Create database

Filter by databases

DB identifier	Status	Role	Engine	Region ...	Size	Recommendations	CPU	Current activity
lab-db	Creating	Instance	MySQL Co...	us-east-1b	db.t3.micro			

Credentials to access server:

Connection details to your database lab-db

This is the only time you can view this password. Copy and save the password for your reference. If you lose the password, you must modify your database to change it. You can use a SQL client application or utility to connect to your database.

[Learn about connecting to your database](#)

Master username

main

Master password

lab-password

Endpoint

lab-db.cyvkoxyphslr.us-east-1.rds.amazonaws.com

Close

Database Server Dashboard:

aws Load Test RDS

Meta-Data	Value
InstanceId	i-00391d39ed15cad30
Availability Zone	us-east-1b

Current CPU Load: 10%

Entering credentials to access DB server:

aws Load Test RDS

Endpoint: lab-db.cyvkoxyphslr.us-east-1.rds.amazonaws.com


Database: lab

Username: main

Password:

Submit

Database:

 Load Test RDS

Address Book

Last name	First name	Phone	Email	Admin
				Add Contact
Doe	Jane	010-110-1101	janed@someotheraddress.org	Edit Remove
Johnson	Roberto	123-456-7890	robertoj@someaddress.com	Edit Remove

Adding data in the Database:

Address Book

Add Contact

Last Name:

Pandya

First Name:

Dwij

Phone:

8000733355

Email:

2302031030051@silveroak

Submit

Last name	First name	Phone	Email	Admin
				Add Contact
Doe	Jane	010-110-1101	janed@someotheraddress.org	Edit Remove
Johnson	Roberto	123-456-7890	robertoj@someaddress.com	Edit Remove

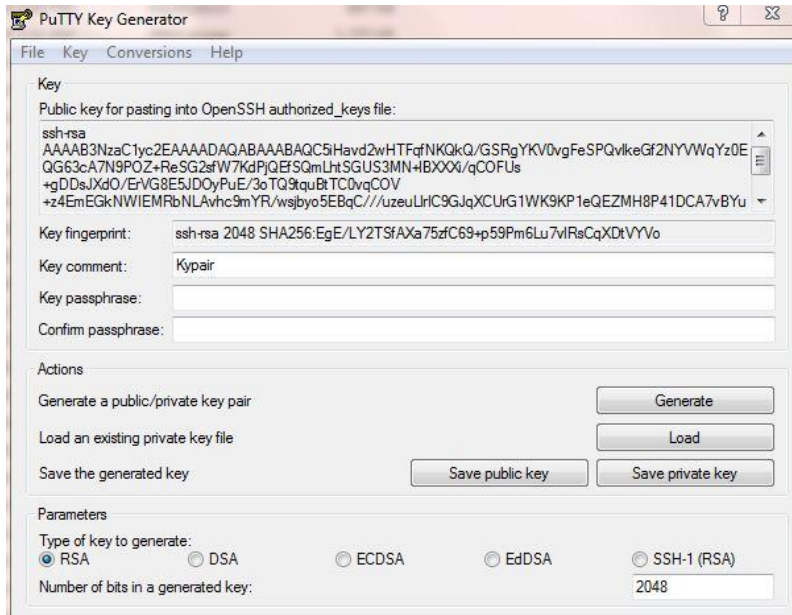
Updated Database:

Address Book

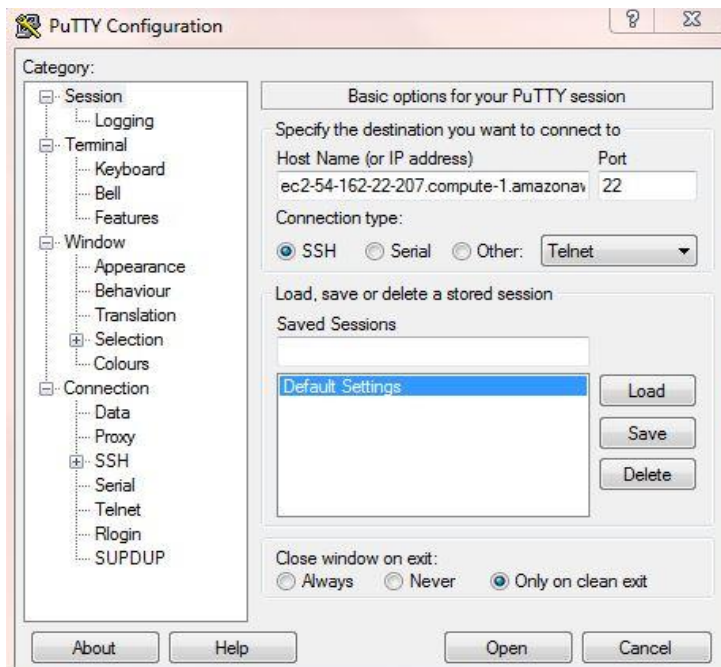
Last name	First name	Phone	Email	Admin
				Add Contact
Anonymous	Kathan	9737378868	kanonymous@gmail.com	Edit Remove
Doe	Jane	010-110-1101	janed@someotheraddress.org	Edit Remove
Pandya	Dwij	8000733355	2302031030051@silveroakuni.ac	Edit Remove
Parekh	Anonymous	9909259911	anonymousp@gmail.com	Edit Remove

Created Remote access Instance by Public Key:

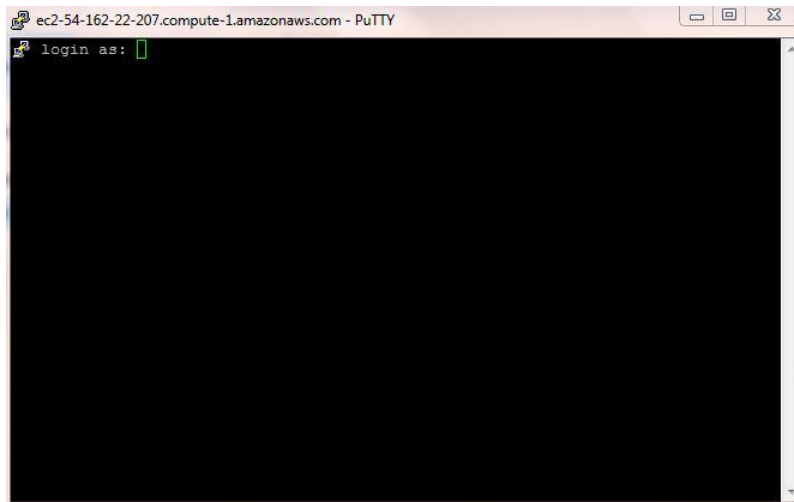
Coverted pem to ppk using PuTTY KeyGen:



PuTTY Dashboard: (For accessing the server)



Instance Login:



Instance Accessed:

