

The screenshot shows the AWS Services menu interface. On the left, a sidebar displays a step-by-step guide for RDS setup, including History, Select engine, RDS, S3, Billing, and VPC. The main area lists various AWS services under categories: Compute, Storage, Database, Migration, Machine Learning, Analytics, Security, Identity & Compliance, and a general search bar.

Services

- History
- Step 1
Select engine
- RDS
- S3 Step 2
Choose use case
- Billing
- Compute
- Machine Learning
- Storage
- Analytics
- Migration
- Security, Identity & Compliance
- Find a service by name or feature (for example, EC2, S3 or VM, storage).
- Group A-Z

Compute

- EC2
- Lightsail
- Elastic Container Service
- Lambda
- Batch
- Elastic Beanstalk

Machine Learning

- Amazon SageMaker
- Amazon Comprehend
- AWS DeepLens
- Amazon Lex
- Machine Learning
- Amazon Polly
- Rekognition
- Amazon Transcribe
- Amazon Translate

Storage

- S3
- EFS
- Glacier
- Storage Gateway

Analytics

- Athena
- EMR
- CloudSearch
- Elasticsearch Service
- Kinesis
- QuickSight
- Data Pipeline
- AWS Glue

Database

- RDS
- DynamoDB
- ElastiCache
- Amazon Redshift

Migration

- AWS Migration Hub
- Application Discovery Service
- Database Migration Service
- Server Migration Service

Security, Identity & Compliance

- IAM
- Cognito
- Secrets Manager
- GuardDuty

The screenshot shows the Amazon RDS Instances page. On the left, there's a sidebar with options like Dashboard, Instances (which is selected and highlighted with a red box), Clusters, Performance Insights (with a PREVIEW link), Snapshots, Reserved instances, Subnet groups, Parameter groups, Option groups, Events, Event subscriptions, and Notifications. The main content area has a breadcrumb path 'RDS > Instances'. It displays a table titled 'Instances (0)' with a single header row: 'DB instance'. Below the table, it says 'No instances found'. At the top right of the main area, there are buttons for 'Instance actions', 'Restore from S3', and a prominent orange 'Launch DB instance' button. A red arrow points upwards towards the 'Launch DB instance' button.

AWS Services Resource Groups 🔍

Step 1 Select engine

Step 2 Choose use case

Step 3 Specify DB details

Step 4 Configure advanced settings

RDS Instances Launch DB instance

Select engine

Engine options

Amazon Aurora **Amazon Aurora**

MySQL 

MariaDB 

PostgreSQL 

Oracle **ORACLE**

Microsoft SQL Server 

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 16 TB.
- Instances offer up to 32 vCPUs and 244 GiB Memory.
- Supports automated backup and point-in-time recovery.
- Supports cross-region read replicas.

Only enable options eligible for RDS Free Usage Tier [Info](#)

[Cancel](#) **Next**

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Step 1
Select engine

RDS > Instances > Launch DB instance

Step 2
Choose use case

Step 3
Specify DB details

Step 4
Configure advanced
settings

Choose use case

Use case

Do you plan to use this database for production purposes?

Use case

Production - Amazon Aurora Recommended

MySQL-compatible, enterprise-class database at 1/10th the cost of commercial databases.

Production - MySQL

Use Multi-AZ Deployment and Provisioned IOPS Storage as defaults for high availability and fast, consistent performance.

Dev/Test - MySQL

This instance is intended for use outside of production or under the RDS Free Usage Tier.

Billing is based on [RDS pricing](#).



Cancel

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AWS Services Resource Groups devops Ohio Support

Step 1 RDS Instances Launch DB instance

Step 2 Select engine

Step 3 Choose use case

Step 4 Specify DB details

Step 5 Configure advanced settings

Specify DB details

Instance specifications

Estimate your monthly costs for the DB Instance using the [AWS Simple Monthly Calculator](#).

DB engine: MySQL Community Edition

License model: [Info](#) general-public-license

DB engine version: [Info](#) mysql 5.6.39

Known Issues/Limitations
Review the [Known Issues/Limitations](#) to learn about potential compatibility issues with specific database versions.

Free tier
The Amazon RDS Free Tier provides a single db.t2.micro instance as well as up to 20 GB of storage, allowing new AWS customers to gain hands-on experience with Amazon RDS. Learn more about the RDS Free Tier and the instance restrictions [here](#).

Only enable options eligible for RDS Free Usage Tier [Info](#)

DB instance class: [Info](#) db.t2.micro — 1 vCPU, 1 GiB RAM

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Free tier

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Only enable options eligible for RDS Free Usage Tier [Info](#)

DB instance class [Info](#)

db.t2.micro — 1 vCPU, 1 GiB RAM

Multi-AZ deployment [Info](#)

Create replicant in different zone
Creates a replica in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.

No

Storage type [Info](#)

General Purpose (SSD)

Allocated storage

20

GB

Min.Size : 20Gb

(Minimum: 20 GB, Maximum: 20 GB) Higher allocated storage [may improve IOPS performance](#).

Settings

DB instance identifier [Info](#)

Specify a name that is unique for all DB instances owned by your AWS account in the current region.

mydbinstance

DB instance identifier is case insensitive, but stored as all lower-case, as in "mydbinstance". Must contain from 1 to 63 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Cannot end with a hyphen or contain two consecutive hyphens.

AWS Services Resource Groups

Creates a replica in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.

No

Storage type: Info

General Purpose (SSD)

Allocated storage:

20 GB

(Minimum: 20 GB, Maximum: 20 GB) Higher allocated storage may improve IOPS performance.

Settings

DB instance identifier: Info

Specify a name that is unique for all DB instances owned by your AWS account in the current region.

satisfysql

DB instance identifier is case insensitive, but stored as all lower-case, as in "mydbinstance". Must contain from 1 to 63 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Cannot end with a hyphen or contain two consecutive hyphens.

Master username: Info

Specify an alphanumeric string that defines the login ID for the master user.

satisfish

Master Username must start with a letter. Must contain 1 to 16 alphanumeric characters.

Master password: Info

Confirm password: Info

Master Password must be at least eight characters long, as in "mypassword". Can be any printable ASCII character except "/", "\\", or "@".

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AWS Services Resource Groups Select engine Step 2 Choose use case Step 3 Specify DB details Step 4 Configure advanced settings

Configure advanced settings

Network & Security

Virtual Private Cloud (VPC) [Info](#)
VPC defines the virtual networking environment for this DB instance.

Only VPCs with a corresponding DB subnet group are listed.

Subnet group [Info](#)
DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

Public accessibility [Info](#)

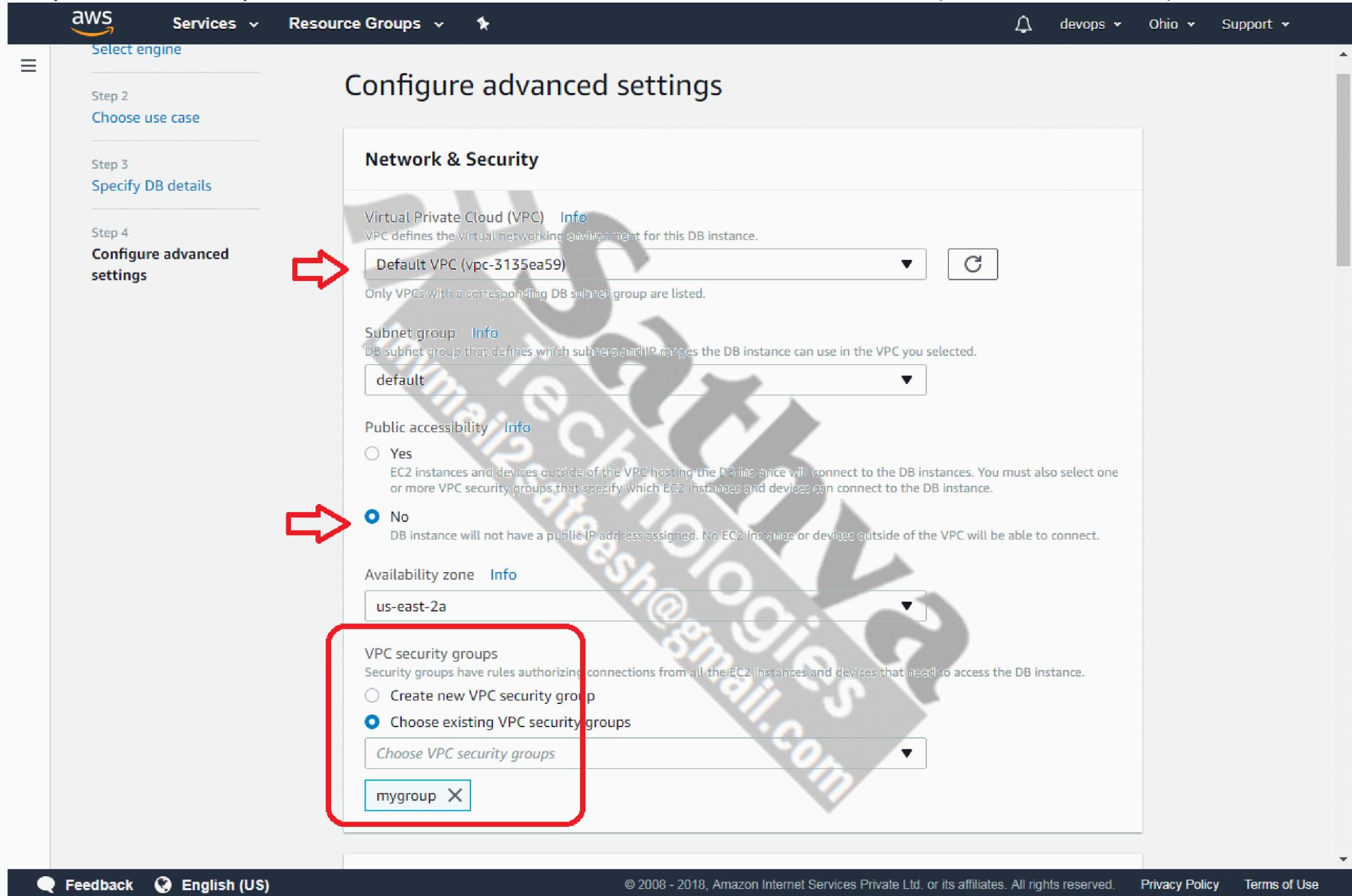
Yes
EC2 instances and devices outside of the VPC hosting the DB instance will connect to the DB instances. You must also select one or more VPC security groups that specify which EC2 instances and devices can connect to the DB instance.

No
DB instance will not have a public IP address assigned. No EC2 instance or devices outside of the VPC will be able to connect.

Availability zone [Info](#)

VPC security groups
Security groups have rules authorizing connections from all the EC2 instances and devices that need to access the DB instance.

Create new VPC security group
 Choose existing VPC security groups



AWS Services Resource Groups mygroup X

RDS (Relational Database Service) devops Ohio Support

Database options

Database name: satishdb
Note: if no database name is specified then no initial MySQL database will be created on the DB Instance.

Database port: 3306
TCP/IP port the DB instance will use for application connections.

DB parameter group: default.mysql5.6

Option group: default:mysql-5-6

Copy tags to snapshots

IAM DB authentication: Info

Enable IAM DB authentication
Manage your database user credentials through AWS IAM users and roles.
 Disable

Encryption

Encryption:

Enable Encryption
Select to encrypt the given instance. Master key IDs and aliases appear in the list after they have been created using the Key

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The screenshot shows the AWS RDS (Relational Database Service) configuration interface. It highlights two sections with red arrows and blue boxes:

- Backup:** This section allows setting the backup retention period and backup window. A warning message states: "Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to detail [here](#)." The backup retention period is set to 7 days. The backup window is set to "Select window" with a start time of 01:00 UTC and a duration of 2 hours.
- Monitoring:** This section allows enabling enhanced monitoring and configuring the monitoring role and granularity. Enhanced monitoring is enabled, and the monitoring role is set to "Default" with a granularity of "60 seconds". A checkbox at the bottom authorizes RDS to create the IAM role "rds-monitoring-role".

Select the log types to publish to Amazon CloudWatch Logs

Audit log
 Error log
 General log
 Slow query log

IAM role

The following service-linked role is used for publishing logs to CloudWatch Logs.

RDS Service Linked Role

(i) Ensure that General, Slow Query, and Audit Logs are turned on. Error logs are enabled by default.

[Learn more](#)

Maintenance

Auto minor version upgrade [Info](#)

Enable auto minor version upgrade
Enables automatic upgrades to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the DB instance.

Disable auto minor version upgrade

Maintenance window [Info](#)

Select the period in which you want pending modifications or patches applied to the DB instance by Amazon RDS.

Select window
 No preference

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Services ▾ Resource Groups ▾

Error log
General log
Slow query log

IAM role
The following service-linked role is used for publishing logs to CloudWatch Logs.
RDS Service Linked Role

Ensure that General, Slow Query, and Audit Logs are turned on. Error logs are enabled by default.
[Learn more](#)

Maintenance

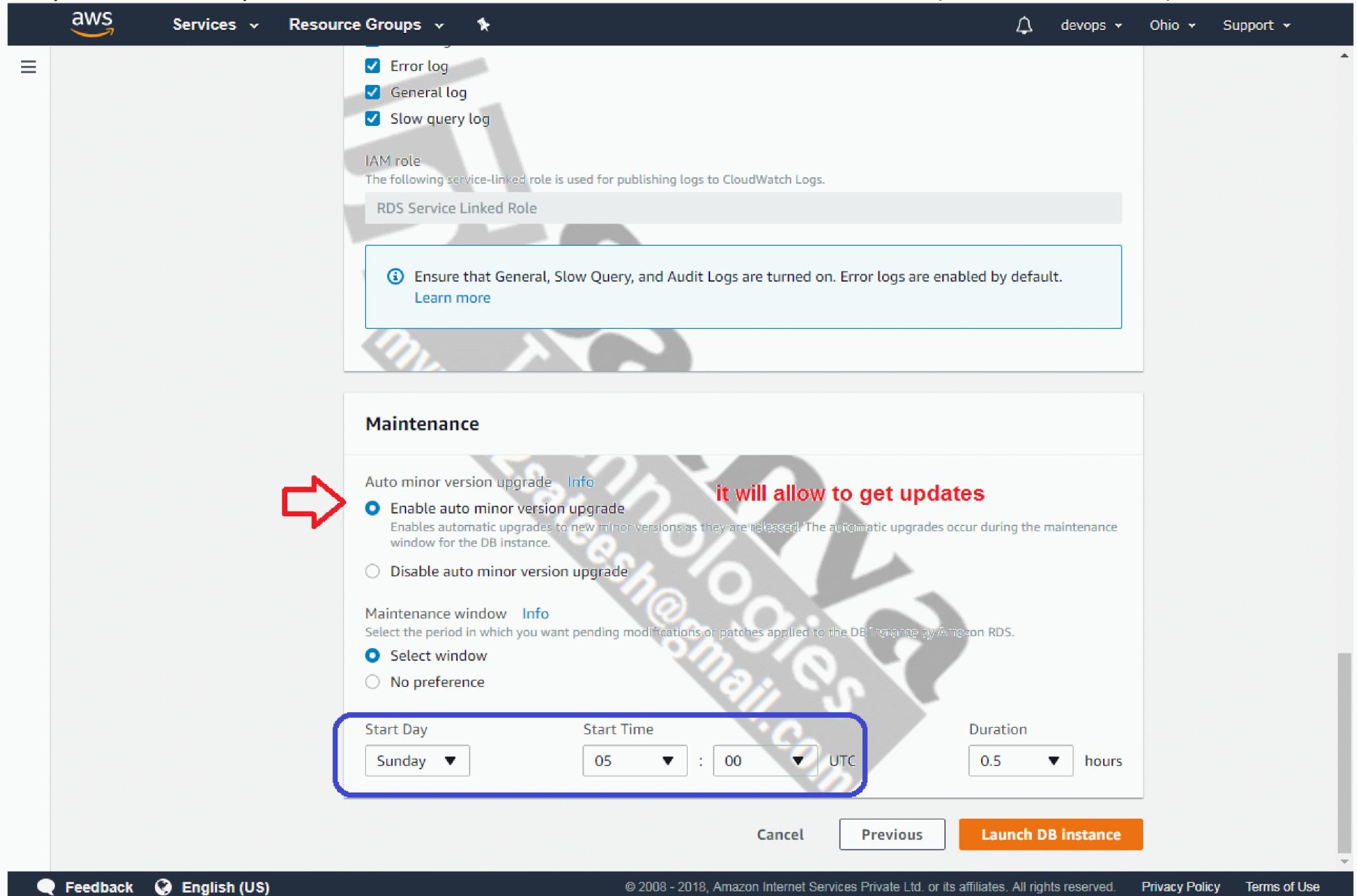
Auto minor version upgrade [Info](#)
 Enable auto minor version upgrade
Enables automatic upgrades to new minor versions as they are released! The automatic upgrades occur during the maintenance window for the DB instance.
 Disable auto minor version upgrade

it will allow to get updates

Maintenance window [Info](#)
Select the period in which you want pending modifications or patches applied to the DB instance by Amazon RDS.
 Select window
 No preference

Start Day: Sunday ▾ Start Time: 05 : 00 UTC Duration: 0.5 hours

Cancel Previous Launch DB instance





Your DB instance is being created.

Note: Your instance may take a few minutes to launch.

Connecting to your DB instance

Once Amazon RDS finishes provisioning your DB instance, you can use a SQL client application or utility to connect to the instance.

[Learn about connecting to your DB instance](#)

All DB instances

View DB instance details



The screenshot shows the AWS RDS (Relational Database Service) Instances page. On the left, there's a sidebar with various navigation options: Dashboard, Instances (which is highlighted in orange), Clusters, Performance Insights (with a PREVIEW badge), Snapshots, Reserved instances, Subnet groups, Parameter groups, Option groups, Events, Event subscriptions, and Notifications. The main content area is titled 'Instances (1)' and shows a table with one row. The table columns are DB instance, Engine, Status, CPU, and Current activity. The single instance listed is 'satishmysql', which is running MySQL and is marked as 'available'. A red arrow points upwards from the bottom of the 'available' status indicator towards the top of the page. The top navigation bar includes the AWS logo, Services dropdown, Resource Groups dropdown, a bell icon, user 'devops', region 'Ohio', and Support dropdown.

DB instance	Engine	Status	CPU	Current activity
satishmysql	MySQL	available	1.86%	0 Con

AWS Services Resource Groups ⚡

Amazon RDS X

Details

Modify

Configurations	Security and network	Instance and IOPS	Maintenance details
ARN arn:aws:rds:us-east-2:801764217350:db:satishmysql	Availability zone us-east-2a	Instance Class db.t2.micro	Auto minor version upgrade Yes
Engine MySQL 5.6.39	VPC vpc-3135ea59	Storage Type General Purpose (SSD)	Maintenance window Thu:03:59-Thu:04:29 UTC (GMT)
License Model General Public License	Subnet group default	Storage 20 GB	Backup window 04:49-05:19 UTC (GMT)
Created Time Sun Apr 15 07:45:15 GMT+530 2018	Subnets subnet-451d033e subnet-59ba1e31 subnet-8a4615c7	Availability and durability	Pending Modifications None
DB Name satishdb	Security groups mygroup (sg-918e49fa) (active) default (sg-878443ec) (active)	DB instance status available	Pending maintenance none
Username satish	Publicly accessible No	Multi AZ No	Published logs
Option Group default:mysql-5-6	Endpoint satishmysql.cmcovuguhqsw.us-east-2.rds.amazonaws.com	Automated backups Enabled (7 Days)	CloudWatch Logs Audit Error General Slow query
Parameter group default.mysql5.6 (in-sync)	Certificate authority rds-ca-2015 (Mar 5, 2020)	Latest restore time April 15, 2018 at 7:50:00 AM UTC+5:30	Encryption details
Copy tags to snapshots Yes			Encryption enabled No
Resource ID			

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EndPoint: satishmysql.cmcovuguhqsw.us-east-2.rds.amazonaws.com
UserName: satish
Password: abcd1234

Create an EC2-Instance (Ubuntu)

```
# apt-get update  
# apt-get install mysql-client-core-5.6
```

Syntax:

```
# mysql -u <UName> -h <EndPoint> -p
```

Ex:

```
# mysql -u satish -h satishmysql.cmcovuguhqsw.us-east-2.rds.amazonaws.com -p  
Enter password: abcd1234
```