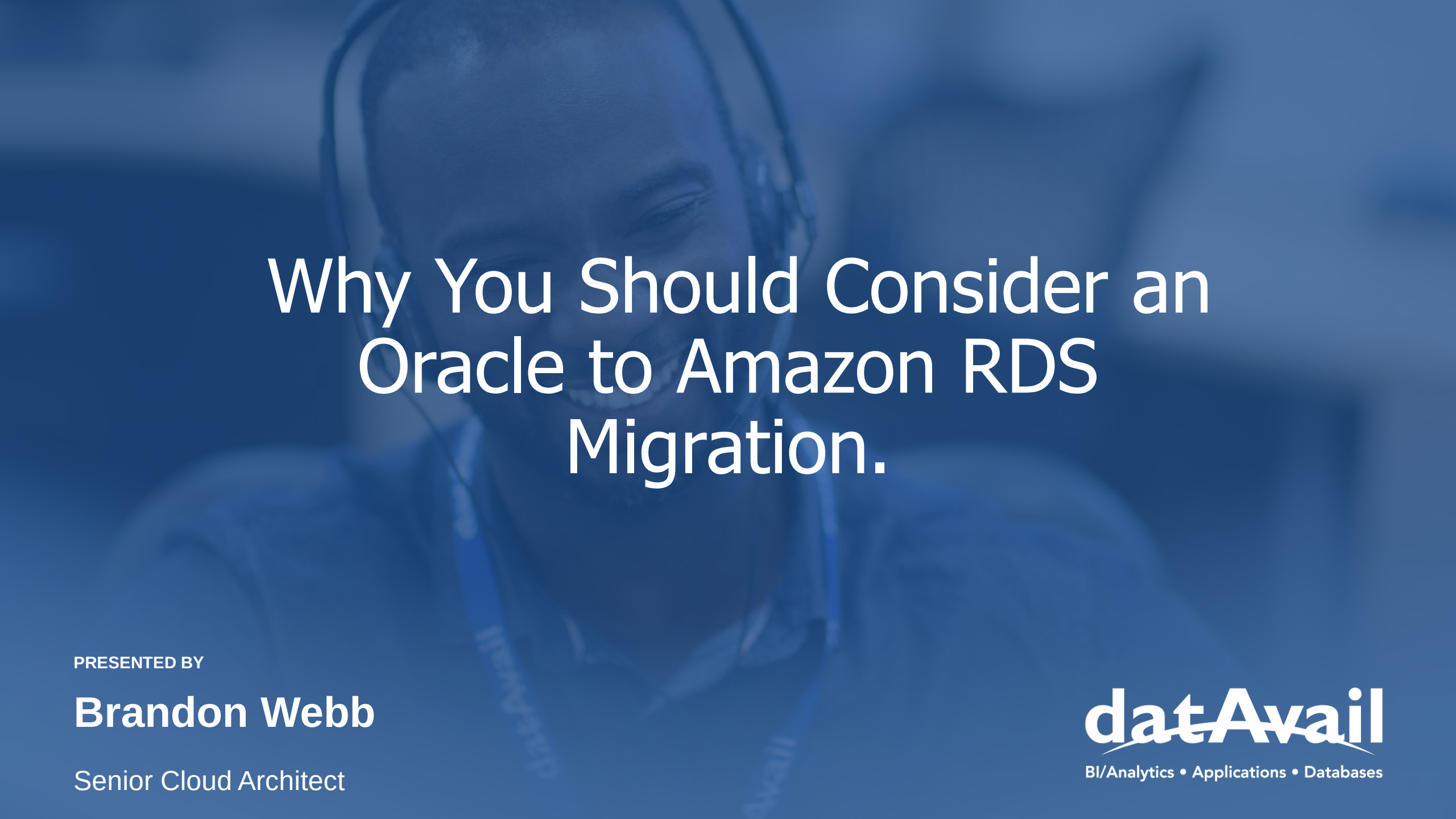

Why You Should Consider an Oracle to Amazon RDS Migration.

PRESENTED BY

Brandon Webb

Senior Cloud Architect

datAvail

BI/Analytics • Applications • Databases

New York Oracle User Group (NYOUG)

Virtually live from New York, the world's most exciting city welcomes all Oracle users, associates, students and professionals to become part of this dynamic group.

NYOUG was formed in 1984 for the exchange of ideas, assistance and support among users of Oracle software products.

nyoug.org

Leadership

President: Simay Alpoge
president@nyoug.org

Vice President: Coleman Leviter
vicepresident@nyoug.org

Treasurer: Robert Edwards
treasurer@nyoug.org

PRESENTER

Brandon Webb

Senior Cloud Architect

datAvail
BI/Analytics • Applications • Databases

Experience

- 5+ years Cloud Technologies

Accredited

- AWS Associate Solutions Architect
- Oracle Associate Solutions Architect
- Masters in Information Systems

Datavail Overview

We are data specialists

Databases, Analytics, and Application Data Integration

16+ years delivering data services

700+ customers with average client retention of 7 years

Managed services, projects, and staffing

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Database Operations

- All major platforms: SQL Server, Oracle, DB2, MySQL, MongoDB, PostgreSQL, AWS, Azure
- Comprehensive development & operational services
- US & Global models
- Reactive and proactive services

Application Management

- EBS
- Hyperion/Essbase
- Microsoft Dynamics
- SharePoint
- Custom development
  - Microsoft .NET
  - Oracle APEX

Analytics, Visualization & Integration

- Microsoft SSRS, SSIS, SSAS
- PowerBI
- Oracle OBIEE, BICS, GoldenGate
- Informatica
- Oracle Data Integrator
- ETL development and operational run

Fill Out Evaluation Form

Fill out the Cloud Adoption survey for a chance to **WIN** a Work from Home package!

https://www.techvalidate.com/registration/bdbc0b7e1d

The Work from Home package includes:

- Datavailopoly – the game for DBAs by DBAs
- Datavail mask
- Noise-canceling headphones
- Datavail hoodie
- Datavail insulated cup
- Sherpa blanket

Agenda

- Patching, patching, patching....
- How much space do you need..... 5G.... wait 10G... can you do 50G? Is that parameter right? Crap did we forget to add that?
- Our DB is down, can you confirm? The load looks high.....
- Of course our backups are working.....
- It's the database... No way it's the server
- Well, we trust them... We know them
- Did we license everything correctly..... oh no!

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Agenda

- Security
- Administrative Tasks
- Availability
- Backup & Recovery
- Performance
- Automation
- Licensing

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WHY DO ALL THIS... SAVINGS!

- Licensing
- Patching
- Mistakes
- Bad Hardware
- Testing
- Redundancy
- Accounting
- Software
- Consolidate

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Joke: What's a hackers favorite season?

Answer: Phishing Season

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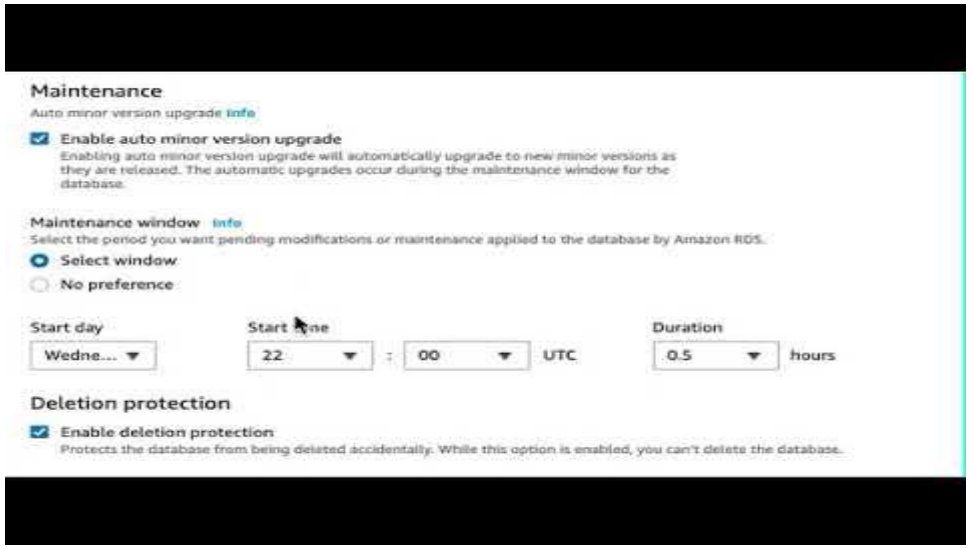
Picture of "I trust you", or something not secure here

Security

- Patching
- Listener Port
- Encryption
- ACLs
- SYS/SYSTEM Passwords
- SYSDBA
- Profiles

Security



- Benefits of AWS
- No More Scheduling Patching
- You state the schedule & AWS will patch the database for you

Picture of someone overwhelmed with tasks

Administrative Tasks

- Can I get more space?
- That tablespace is full again
- How big did you want that again...
- Can I be added to the database
- SYSDBA
- Profiles

Administrative Tasks

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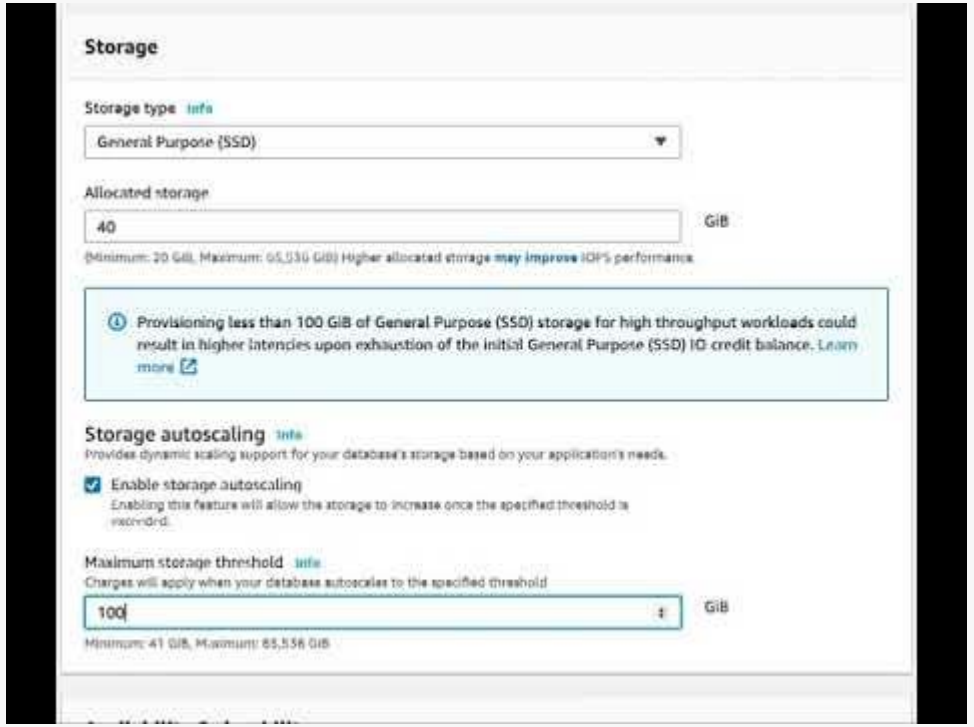

- Benefits of AWS
- Built in Graphs/Reports
- Configuration Management
- Compliance
- Standardization
- Knowledge Transfer
- Code Pipeline

Something like this

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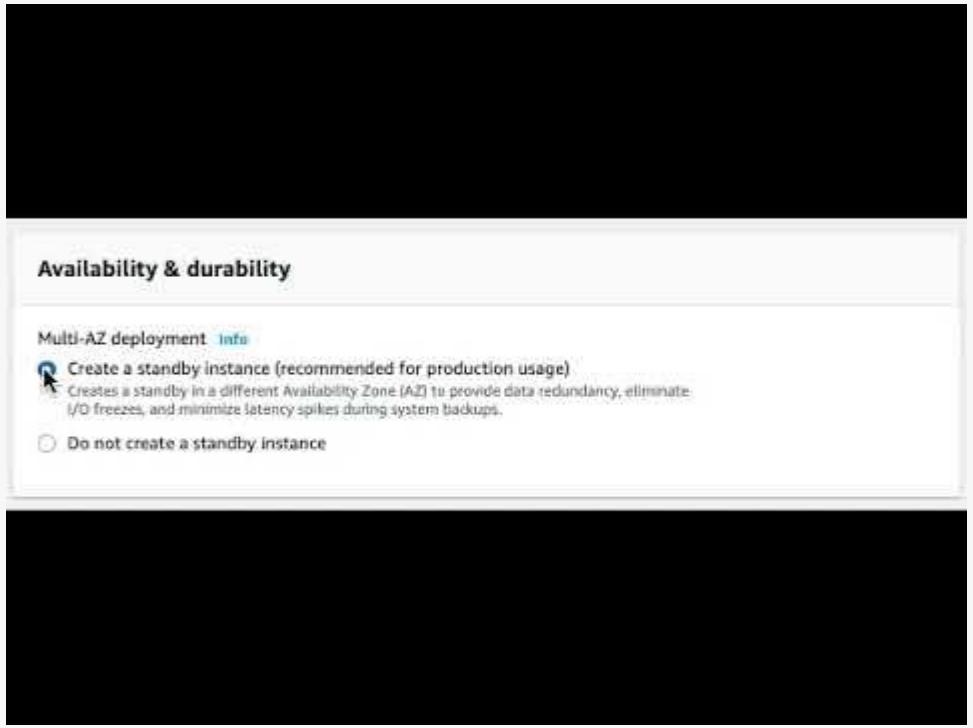
Availability

- Standby Management
- GoldenGate
- How big did you want that again...
- Can I be added to the database
- Update
- SYSDBA
- Profiles

Availability



- Benefits of AWS
- Standby Management done by AWS
- No more lagging/unknowns
- Zone Preference/Region Solutions

Backup & Recovery

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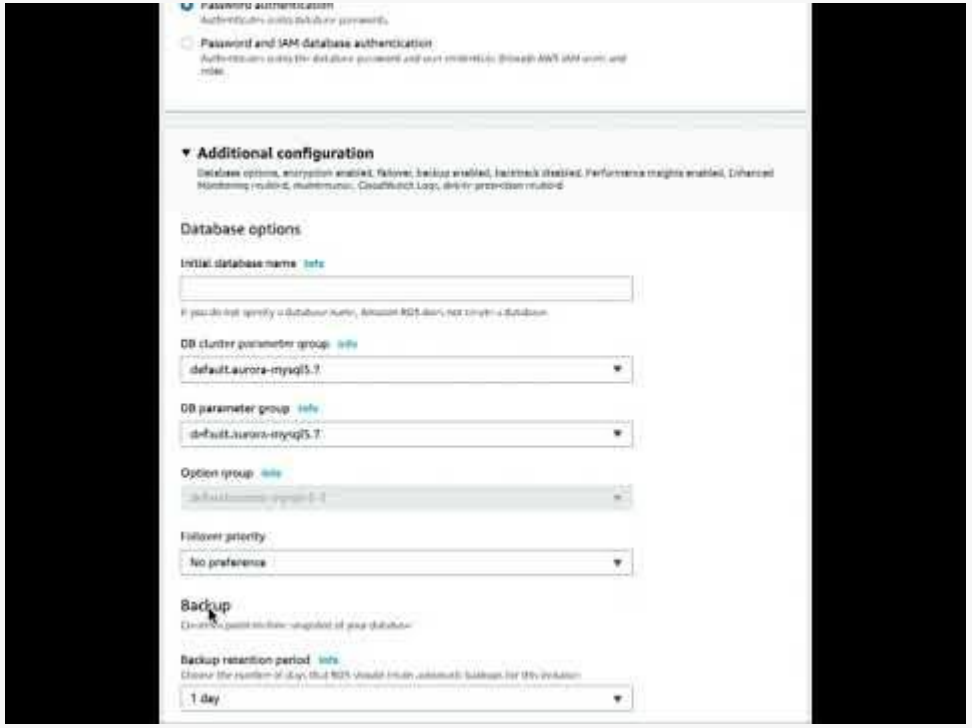
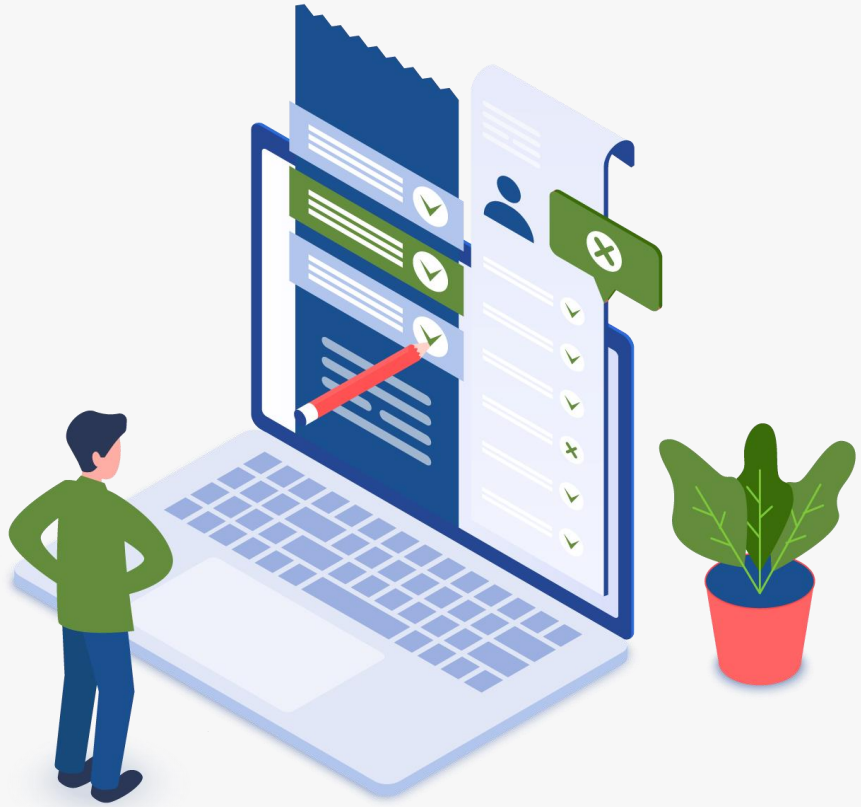
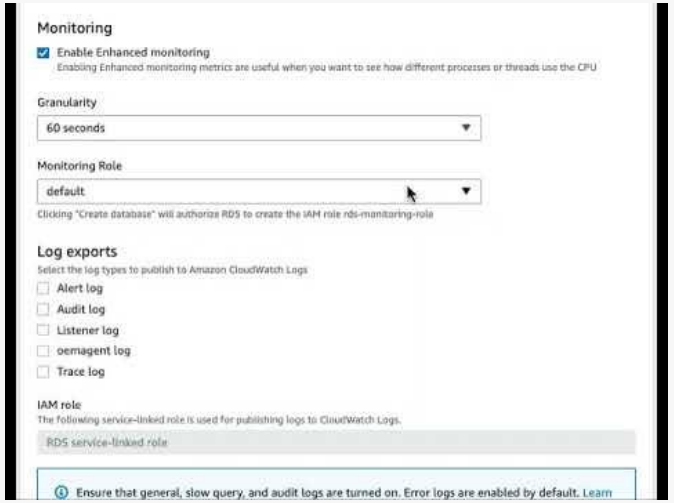




Performance/Monitoring



Ability to Review Export Logs via the GUI

No more mailing logs as you can download them

Cloudwatch Metrics for Alerting

Zoom In/Out Graphs for Analysis of Thresholds

Automation

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View default settings for Easy create

Easy create sets the following configurations to their default values, some of which can be changed later. If you want to change any of these settings now, use **Standard Create**.

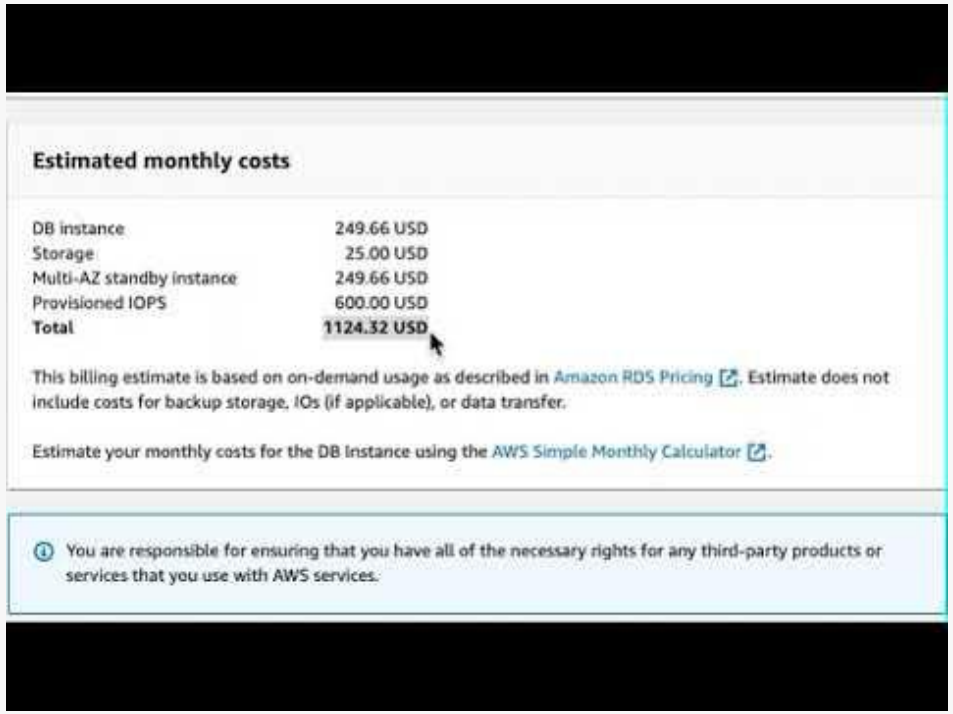
Configuration	Value	Editable after database is created
Database Features	provisioned	No
Encryption	Enabled	No
VPC	Default VPC (vpc-a55d01c2)	No
Option Group	default:aurora-mysql-5-7	No
Subnet Group	default	Yes
Automatic Backups	Enabled	Yes
VPC Security Group	sg-bd06c4c6	Yes
Publically Accessible	No	Yes
Database Port	3306	Yes
DB Cluster Identifier	database-1	Yes
DB Instance Identifier	database-1	Yes
DB Engine Version	5.7.mysql_aurora.2.07.2	Yes
DB Parameter Group	default.aurora-mysql5.7	Yes
DB Cluster Parameter Group	default.aurora-mysql5.7	Yes
Performance Insights	Enabled	Yes
Monitoring	Enabled	Yes
Maintenance	Auto Minor Version Upgrade Enabled	Yes
Delete Protection	Not Enabled	Yes

[Automating File Transfers to Amazon RDS for Oracle databases]

AWS CLI for automating database provisioning, spin up test/dev environments

```
aws rds create-db-instance \
    --db-instance-identifier test-mysql-instance \
    --db-instance-class db.t3.micro \
    --engine mysql \
    --master-username admin \
    --master-user-password secret99 \
    --allocated-storage 20
```

Licensing



You can run Amazon RDS for Oracle under two different licensing models – “License Included” and “Bring-Your-Own-License (BYOL)”. In the "License Included" service model, you do not need separately purchased Oracle licenses; the Oracle Database software has been licensed by AWS.

On Demand VS Reserved Instances

https://aws.amazon.com/rds/reserved-instances/

Connect With Us!

@nyoug_nyc, @NYOUG_Pres

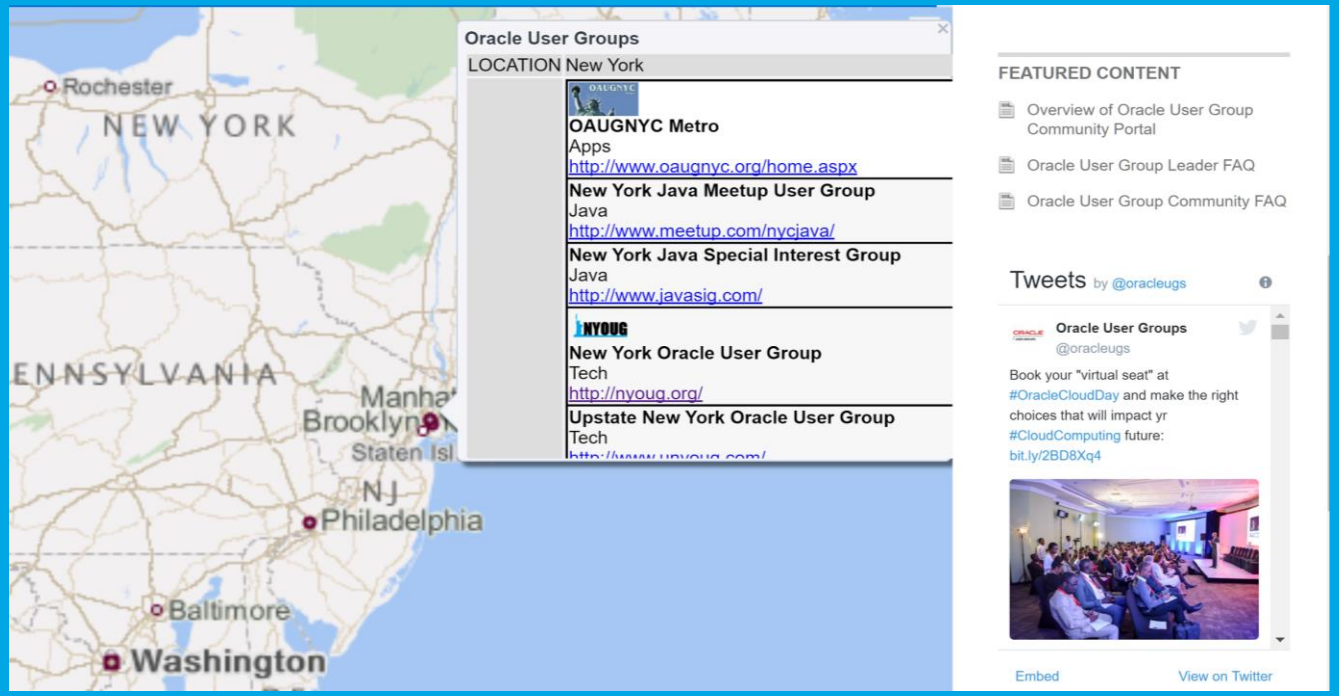
New York Oracle Users Group

New York Oracle Users Group

http://nyoug.org/

https://www.meetup.com/New-York-Open-Group-Meetup/

Outreach to Our Members.



Oracle User Group Community

https://community.oracle.com/community/usergroups

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Questions &
Discussion

Thank You!

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Thank You!

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