IDUG

2026

Sydney | March 16 - 18

AU Db2 TECH CONFERENCE

Db2 Cloud Services Update

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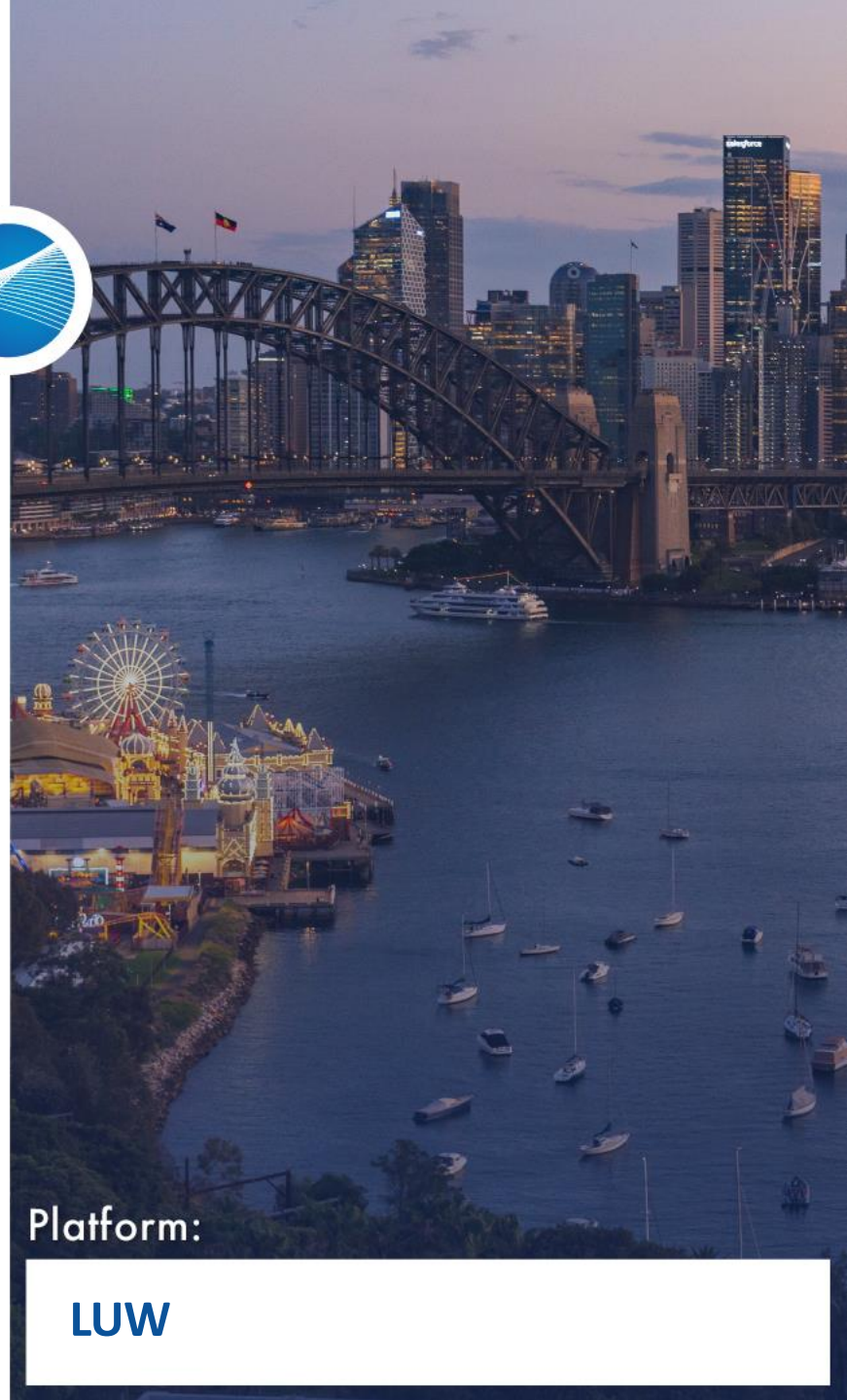
Session Code: B08



Platform:

LUW

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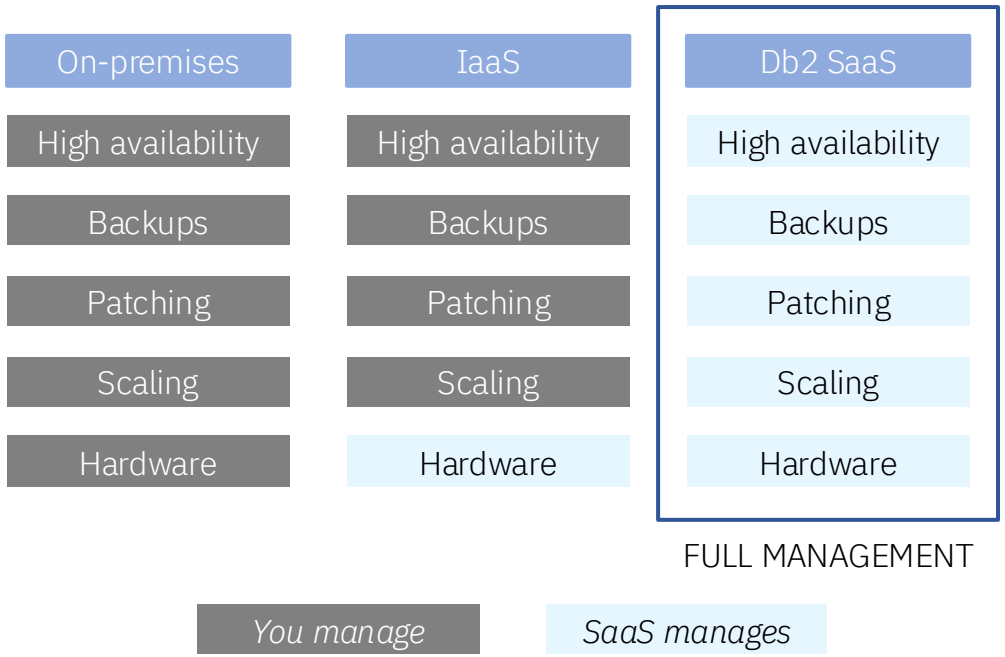
AGENDA

- Db2 Cloud Services – Update and Refresh
  - Amazon RDS for Db2
  - IBM Db2 SaaS
  - Db2 pureScale - Infrastructure as a Service
    - Azure and AWS
- Db2 SaaS on Azure - Bring Your Own Cloud
- What's coming
  - Quick Intro Db2 Serverless
  - Db2 Genius Hub Enabled Services

Db2 Fully Managed Database Services

Customers focus on their Database applications and business, let our Database SaaS Offerings do the rest



Focus on...

- Schema design
- Query construction
- Query optimization
- Application modernization
- New cloud-native apps

Managed for you...

- Backup and recovery
- Patching
- Configuration
- Software upgrades
- Storage upgrades
- Server upgrades
- Hardware issues

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IBM **Db2**

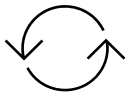
+

Amazon RDS

Bringing together one of the **LARGEST WEB SERVICE** in the world with a database that runs the most **COMPLEX TRANSACTIONAL WORKLOADS** in the World

- Automates time-consuming tasks like provisioning, patching and backups.

- Highly available across availability zones with managed snapshot backups and point in time recoverv.



- Built in IBM and AWS technical expertise integrated and accessible via standard RDS interfaces

- Built-in compliance and tested for security – FedRAMP coming in 2026

Why Amazon RDS for Db2?

Powerful, Easy, Modern

Setup, operate, and scale a managed database in just a few clicks

Fully Managed

Automated administrative tasks like provisioning, patches, backup and recovery.

Access the latest major and minor versions

Trusted infrastructure management from the largest cloud provider

Pay for what you use

Bring your own license program

License rental subscriptions

No upfront fees or long-term commitment with pay-as-you-go or reserved pricing options

- Highly available
- **Customize your workload for the availability that you need with security and durability**
- **Access to Amazon RDS Multi-AZ with one standby and soon with Read Replicas**
- **Cross Region Durability with replicated snapshots and archived transaction logs**

Easy modernization

Reduce the complexity of migrating with like-to-like migration, no schema conversion

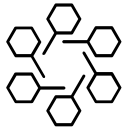
Deploy using the familiar code, features, and tools of your favorite database & combine that with AWS RDS features

Amazon RDS for Db2 – Key Attributes

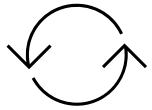
Increase Efficiency

Focus on innovation

Reduce Costs

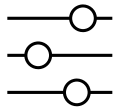


- Db2 11.5.9 – ETA. V12.1.5 in Q2 Standard and Advanced Edition (BYOL and AWS Marketplace)



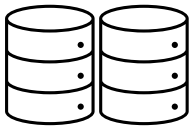
- Scalable up to 192 vCPU and 4 TB of memory.

- Grow Storage up to 64 TiB and scale storage performance independent of storage size up to 256K IOPS and 4000 MiB/s



- Customizable configuration parameters and ability to manage shared configurations.

- Automatic patching with customizable maintenance windows and policies



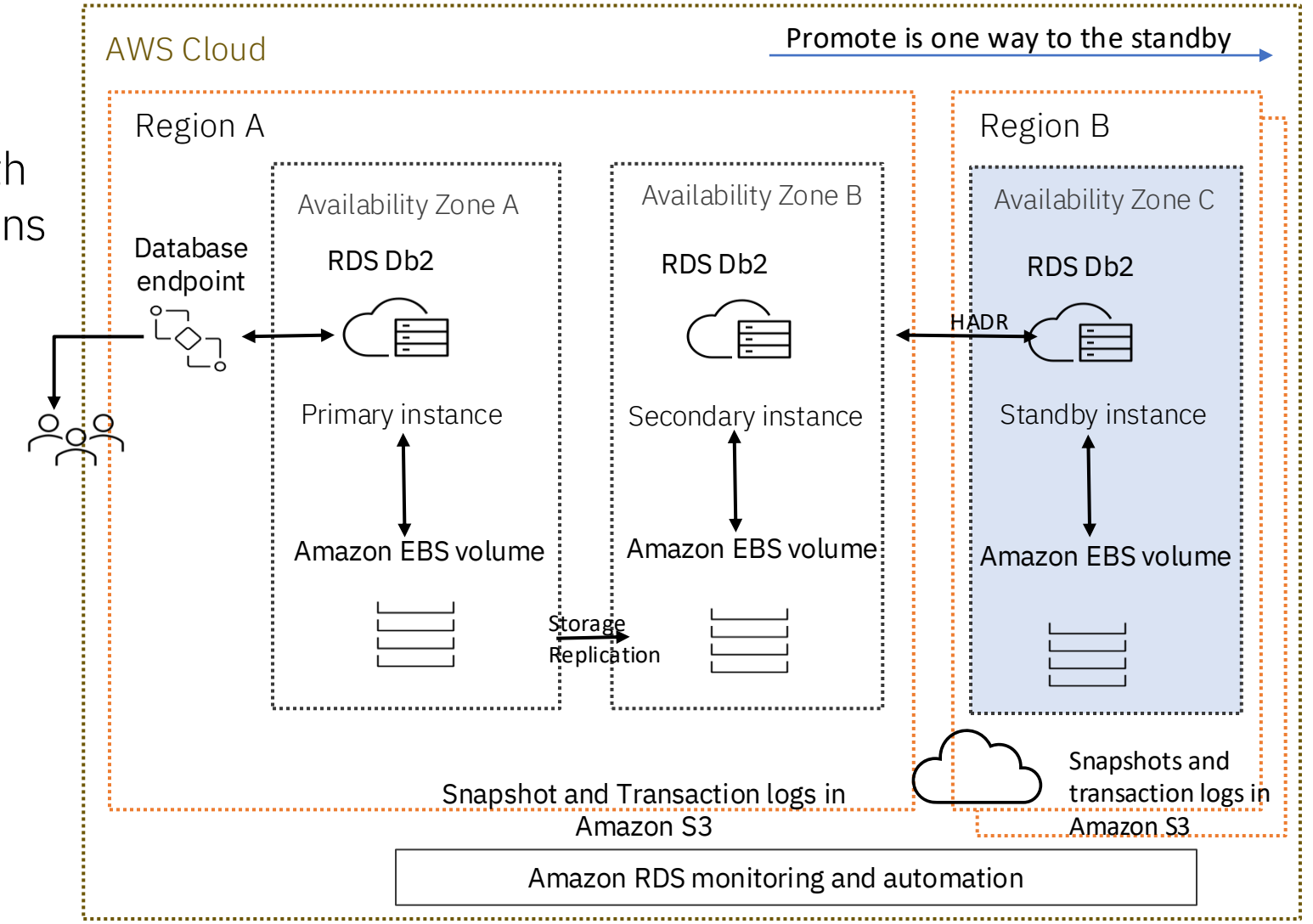
- Highly Available and ready for Disasters with Storage replication and automatic health and repair capability. DR Support powered by Db2 HADR.

High Availability & Disaster Recovery

Be prepared for failures and regional disasters with high availability and automated multi-AZ data replication
Keep critical applications always-on with warm standby support in multiple regions with Read on Standby Support

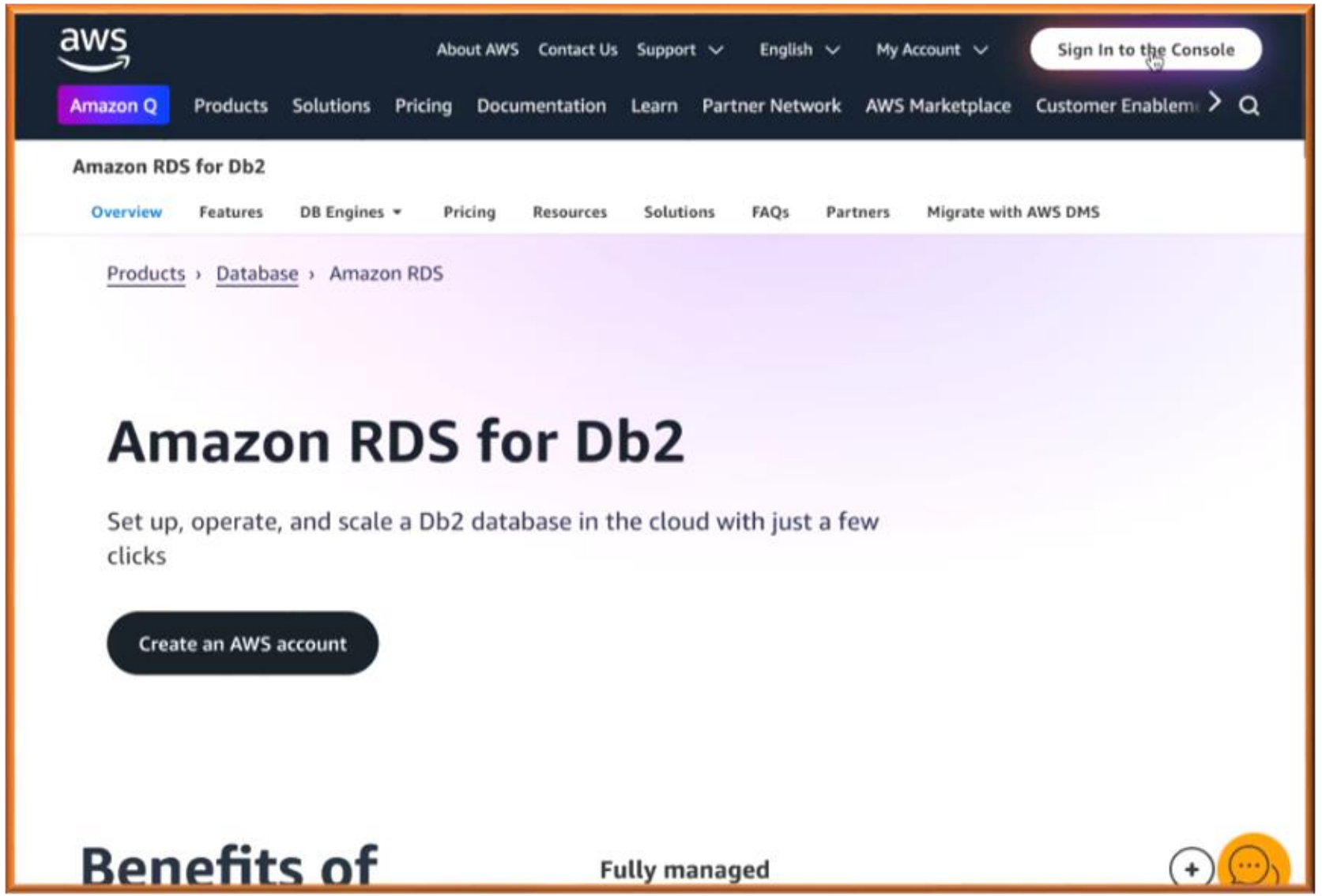
Backup based Cross-Region Disaster Recovery and Multi-AZ

- Automated snapshot and archive logs replicated to target region as soon as available in source region
- Specify independent recovery window for replicated backup region
- Enables Point In Time Recovery (PiTR) in second region for mission- critical databases



Demo - Amazon RDS for Db2

[Demo - AWS Console Link]



Some Key New Features

- Core Capability
  - Multiple Database Support
- Availability and DR
  - Cross-region Automated Backups with PITR
- Performance
  - IO2 Block Storage (sub ms latency)
  - M6i, R6i, and Xiedn instances in Asia Pacific (Jakarta) and Asia Pacific (Hyderabad)
- Migration
  - EBCDIC Collation Support
- Management
  - AWS License Manager Integration for tracking Db2 licenses
  - Hourly licenses available via AWS Marketplace
  - Audit Logging
  - Larger Number of Database Users
  - Local time zone support

- Cross region standby replica
- Kerberos based self-managed Active Directory authentication
- Read Replicas
- FedRAMP Moderate
- *Gov Cloud and FedRAMP High Support – coming in 2026*
- *12.1.5 support – Q2 2026*

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IBM Db2 SaaS (Performance Plan)

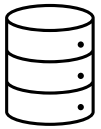
Latest Cloud Infrastructure

Ease of migration

Simplified

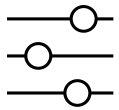
- **Db2 v12.1** with a single plan (Performance) and customizable options

- Scalable up to **128 vCPU** and **1 TB** of Memory and **25 Gbps** network speeds

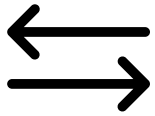


- Grow Storage up to **40 TiB** and scale storage performance independent of storage size up to **196K IOPS**

- Highly Available with up to **2 HA nodes** and **1 DR-Read Replica node** across regions – 2 DR Nodes coming soon

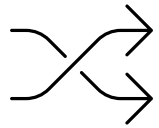


- **Customizable Db, DBM and profile registry** variables for more flexibility



- Ability to restore **customer provided backup** for easier migration.

- **Snapshot** based backups with **PITR** recovery for reduced impact of backups



- Integration improvements like **Terraform, VPE, Customer Specified Maintenance Window** Support is coming

Application Modernization Enablement – EAS4J, MQ, Db2

Easier Migration with Support for Customer Supplied backups

- Allows for simplistic migration of workloads to the cloud
- Support for online and offline Linux x86 backups
- Restoring your backup and rollforwarding logs until you are ready to move allows for a quick switchover time.
  - Some restrictions on backups
    - Non-Fenced External Routines are not supported, C/C++ External Routines are not supported
    - Extenders cannot be restored (Ex: Db2 Spatial Extender, text search)
    - DB2 Native Encryption is not supported
    - Your source database must have a default automatic storage group.
- Supported via API and soon via Db2 Bridge

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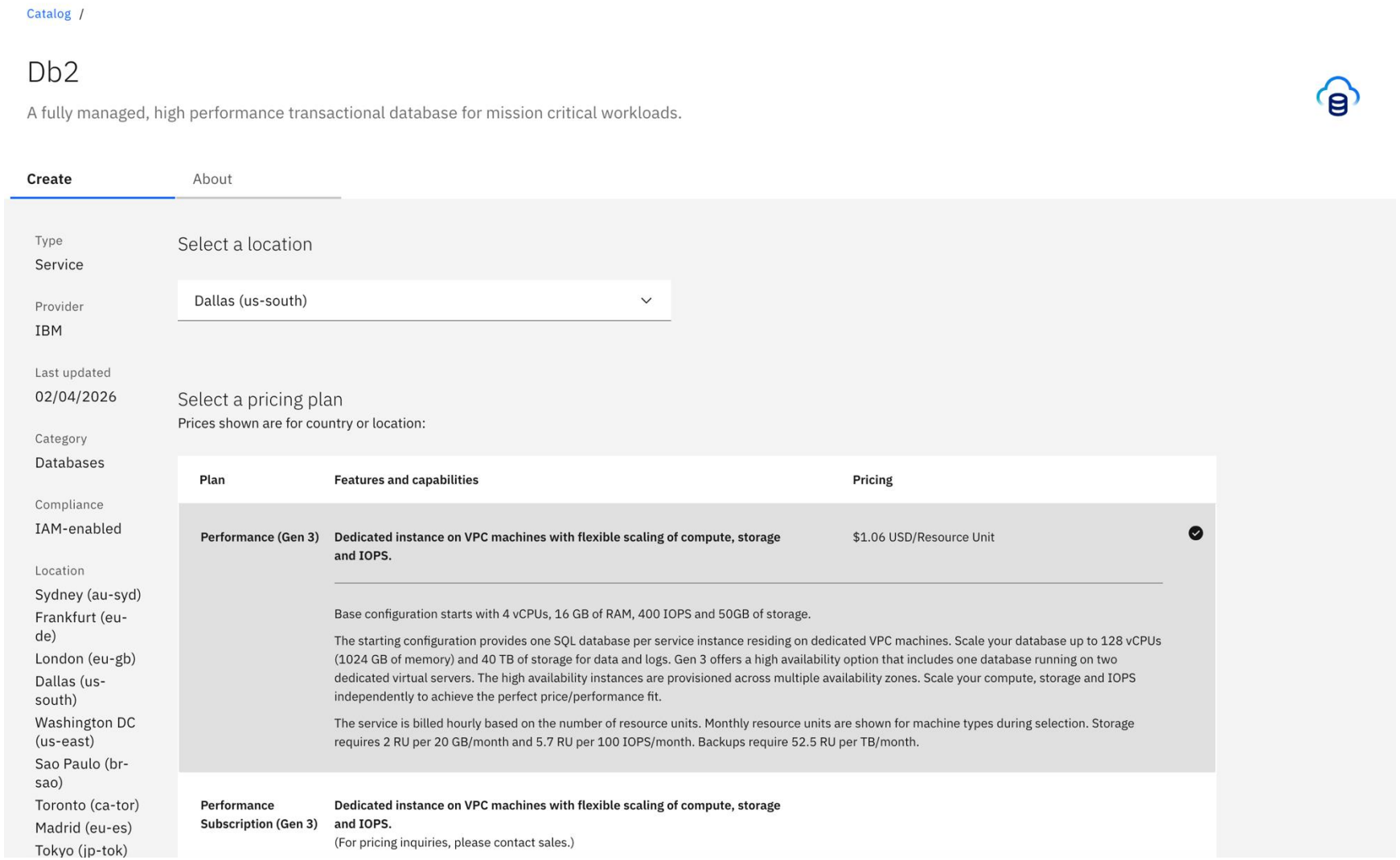
Demo - Db2 Performance Plan on IBM Cloud

[IBM Cloud Catalog]

[Db2 Performance Plan Demo Link]



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Db2 pureScale Infrastructure as a Service

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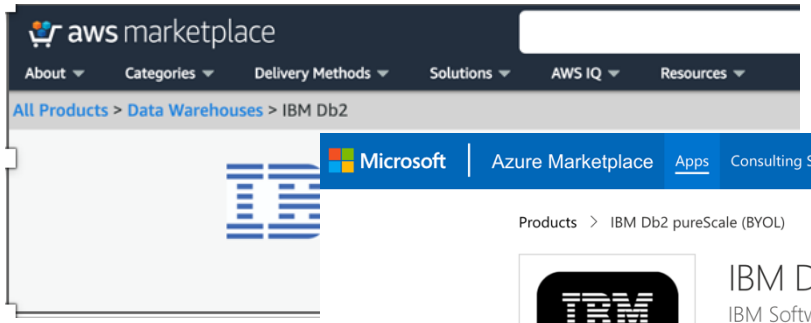
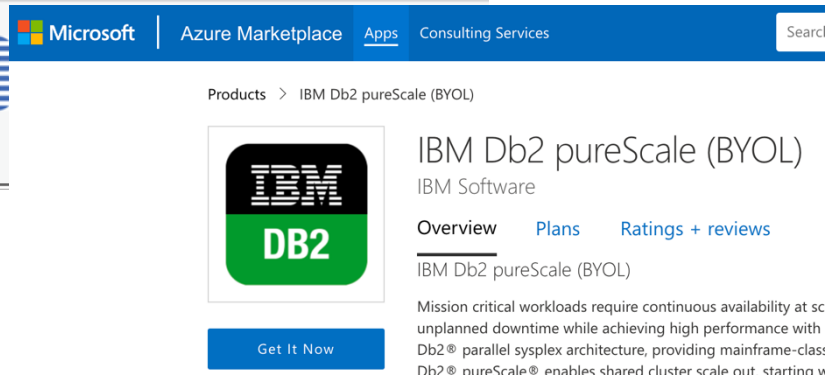
AWS Marketplace - Available since 2023

EFA Support Available – Target June 2025



Azure Marketplace – New for 2025!

With RDMA Support for Higher Scalability



Increased Operational efficiency

Shorten cluster readiness from week(s)/month(s) to minutes with **a one-click automated deployment in the cloud.**

Reduced TCO

Eliminate the need to own and maintain your hardware and reduce TCO when running pureScale on Cloud Hyperscalers.

Lower total storage costs with reduced in-bound and out-bound network traffic for data utilizing Cloud Storage.

Disaster recovery at scale

Ensure resiliency with a second pureScale cluster that can be setup in a different AZ of the same region **in less than an hour.**

Push-button deployment of self-managed pureScale on Azure through the Marketplace. Choose the region, t-shirt size configuration and get going.

Db2 pureScale deployed to customer's own account in **30- 40 minutes**

Deploy Db2 pureScale on-premises or in Cloud Hyperscalers with the same functionality, look, and feel no matter where you deploy

Scale | Resiliency | Multicloud | Productivity | TCO

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Bring Your Own Cloud Db2 Services

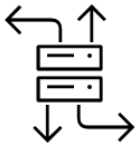
Db2 & Db2 Warehouse as a service BYOC on Azure
Netezza SaaS as a service BYOC on Azure and AWS

Deploy Db2 & Db2 Warehouse as managed services on Azure in a customer's cloud account and Vnet

Deploy Netezza as a manage service on Azure or AWS in a customer's cloud account VPC or VNet

Managed Service

Managed by Db2 experts so customers can focus on what matters

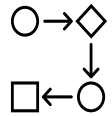


Scalable & Elastic

Scalability through on-demand compute and storage as needed

Compliant & Secure

Take advantage of your existing cloud security posture by deploying in your own account



Connectivity

Connect to data sources directly in your own VPC, no external networking setup needed.

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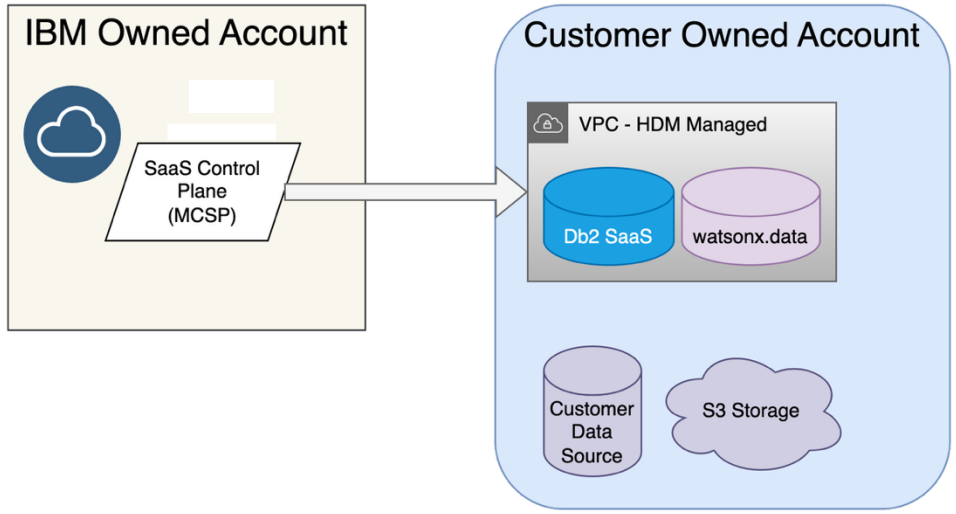
Bring Your Own Cloud Still Fully Managed

by IBM's world-class CloudOps team, 24x7x365

Focus on your apps and data
We'll take care of the rest.

- Benefits Explained



A **Fully Managed SaaS** deployed on infrastructure accessible directly in your own cloud account

Complete Control of your Data and Security Posture **without Blind Spots**

Data Sovereignty, Data Compliance and Data Residency – data hosted in your own cloud account allows you to meet complex and customer specific regulations

No egress of Data from your cloud account, save costs, save integration effort.

Wider range of supportable regions

Integrated directly into your cloud account **with complete control over network integration**

Customized and enhanced capabilities – like **unfenced C/C++ external routines**

...we're on-call 24x7x365, so you can focus on more important things.

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Db2 & Db2 Warehouse BYOC SaaS on Azure

Deploy Db2 and Db2 Warehouse as managed services on Azure in the customer's cloud account

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Products > IBM Db2 as a Service

IBM Db2

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IBM Db2 as a Service

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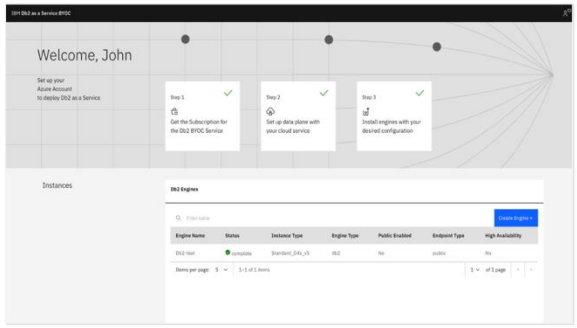
IBM Db2 as a Service offers scalable cloud database solutions.

IBM Db2 & Db2 Warehouse on Azure (Bring Your Own Cloud)

IBM Db2 and Db2 Warehouse SaaS on Microsoft Azure is an enterprise-grade, cloud-native database engine - securely deployed within your Azure environment to run mission-critical workloads. This offering, using the Bring Your Own Cloud model enables you to deploy fully managed, high-performance database services directly within your own Azure environment, combining IBM's proven data capabilities with the flexibility and control of Azure.

Key Benefits

- Data Residency & Compliance
  Deploy within your own Azure subscription to meet strict regulatory, governance, and data sovereignty requirements.
- Seamless Cloud Integration
  Co-locate data and applications within your Azure environment for improved performance and simplified architecture.
- Elastic Scalability
  Independently scale compute and storage resources to align with dynamic workload demands.
- Fully Managed by IBM
  IBM handles provisioning, maintenance, patching, and monitoring—allowing your teams to focus on innovation and business outcomes.



Features

Managed Service

Managed by Db2 experts so customers can focus on what matters

Scalable & Elastic

Scalability through on-demand compute

Compliant & Secure

Take advantage of existing cloud security posture by deploying in the customer's cloud account

Connectivity

Connect to data sources directly in a customer's VNET or VPC, no external networking needed

Benefits when sold through Azure Marketplace

Azure provided incentives for customers purchasing through the Azure Marketplace

IBM Db2 as a Service (BYOC) on Azure *Transactional*

Bring Your Own Cloud | Fully Managed | Simplified

- **Db2 v12.1.3+** Latest generation of Db2 Software. Available from the **Azure Marketplace**

- Easily Scalable up to **128 vCPU+** and **almost 4 TB** of Memory and **40 Gbps** network speeds

- Grow Storage up to **256 TiB +** and scale storage performance independent of storage size up to **204K IOPS**

- Highly Available with up to **2 HA nodes** plus in Q126 - **1 DR-Read Replica nodes** across regions

- **Customizable Db, DBM and profile registry** variables for more flexibility

- Ability to restore **customer provided backups** for easier migration (Q2 26).

- **Snapshot** based backups with **PITR** recovery for reduced impact of backups

- Deploy on infrastructure that is **Your Own Cloud Account** for easy integration with support for **External Routines**

IBM Db2 Warehouse (BYOC) on Azure

High Performance Complex Analytics

Bring Your Own Cloud

Fully Managed

Simplified

- **Db2 v12.1.3+** Latest generation of Db2 Software. Available from the **Azure Marketplace**

- Scale for **infinite data**, up to **4800 vCPUs** of compute

- **Azure blob support** for table storage, significantly decreasing the cost of storing data without sacrificing performance

- **Storage auto-increase for Azure Disk Storage** on set threshold ensuring you never run out of storage for your workloads

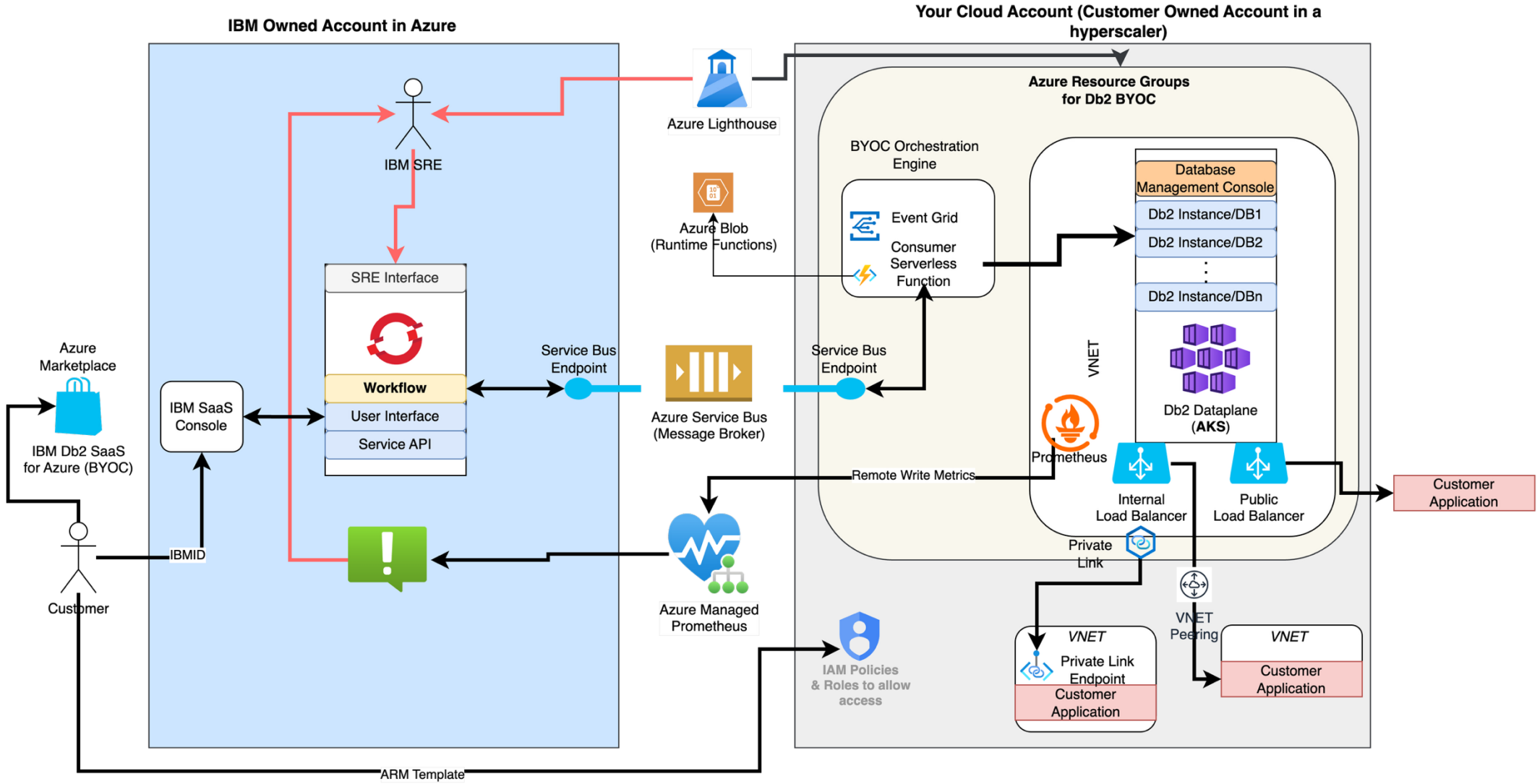
- **Pause compute** to reduce the cost of running dev/test or production environments

- Azure Public/Private connectivity support

- **Unlimited Snapshot** based backups

- **Query multiple open table & data formats** (Iceberg, Parquet, ORC, CSV and more) leveraging existing compute resources dedicated to the warehouse

Db2 BYOC on Azure
High Level Architecture

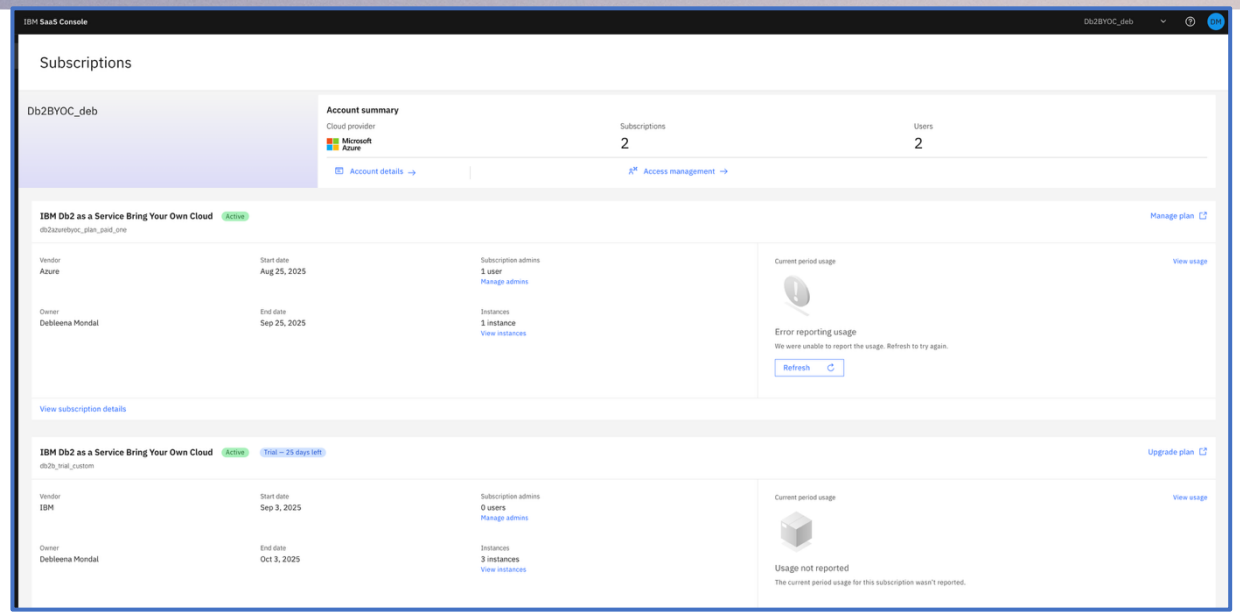


How setting up a subscription works

1

Log into your Subscription in SaaS console

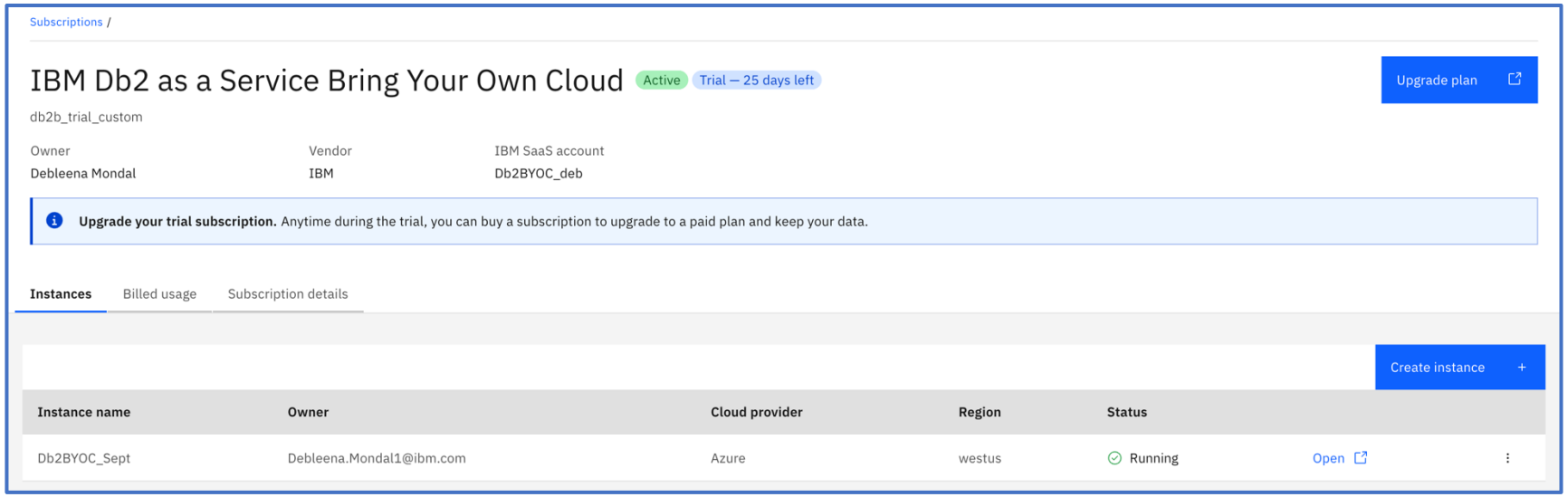
Redirect to IBM SaaS console and check the subscription - https://azure.console.saas.ibm.com/account/dashboard



2

Create a service instance

Click on the create instance button to create a service instance. This service instance redirects to IBM Db2 as a Service BYOC Console.

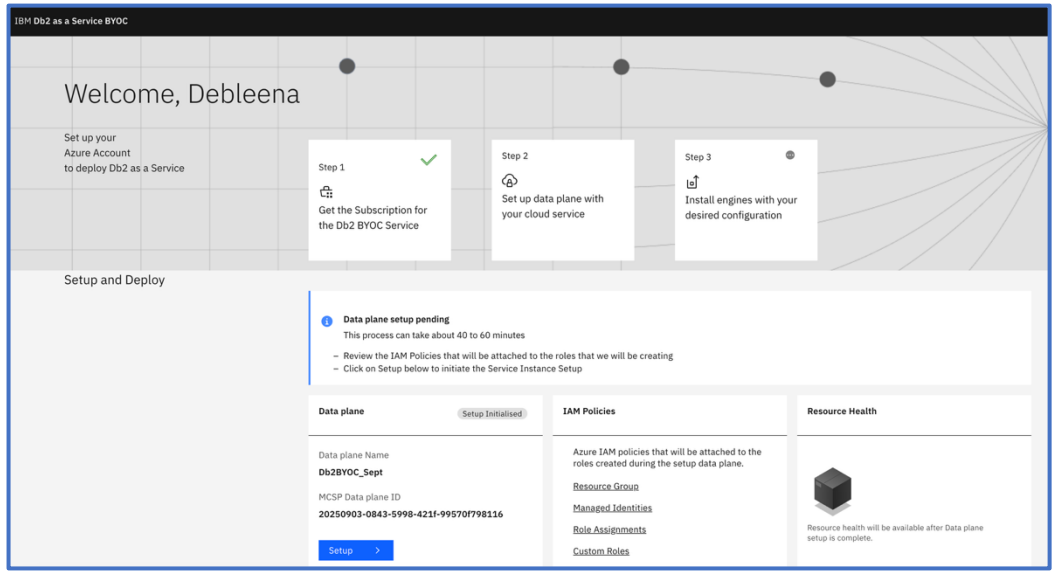


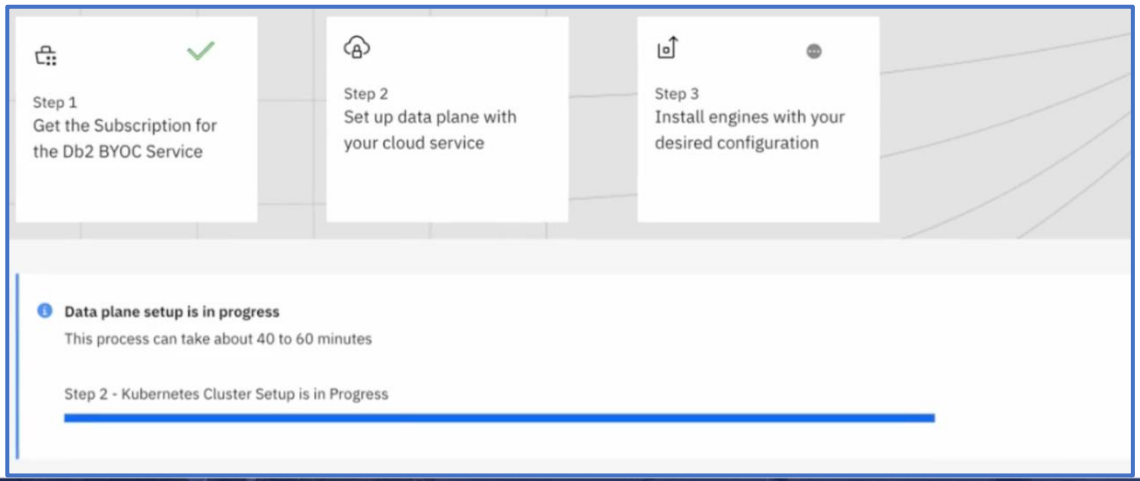
1 Log into your Db2 BYOC Subscription

2 Create a service instance in IBM SaaS Console

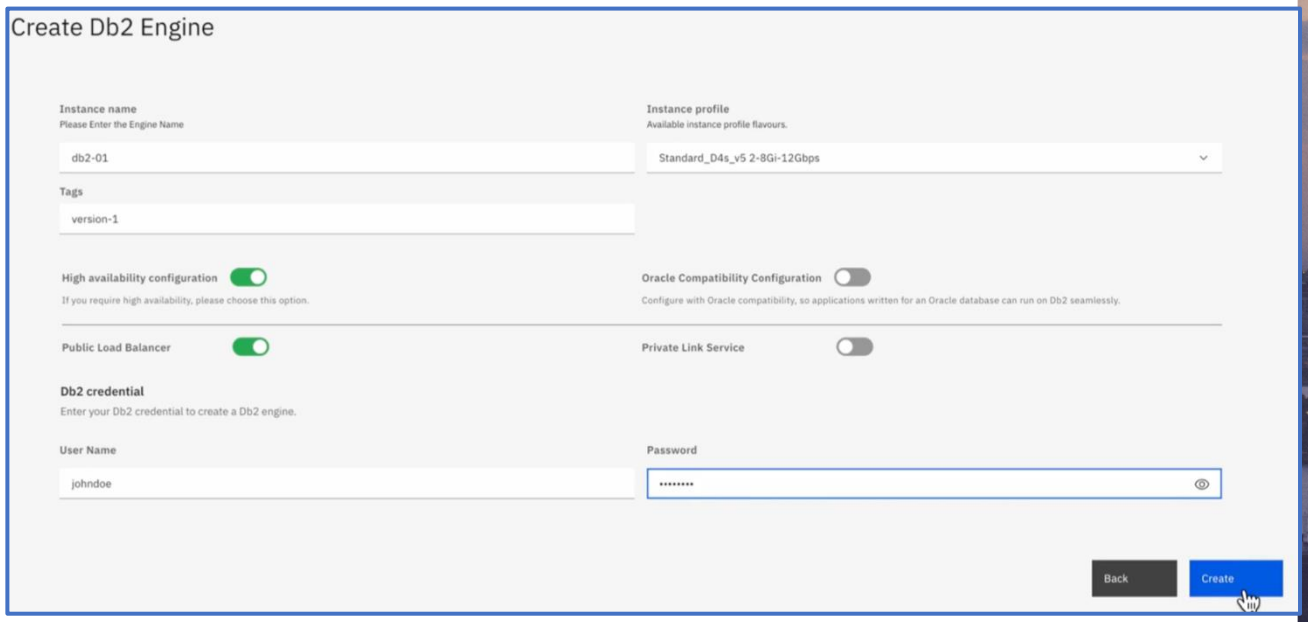
How self-provisioning works

1 Log into IBM Db2 as a Service BYOC Console using the service instance created in the previous step





3 Create a Db2 Instance



2 Setup the data plane

[IBM Db2 on Azure – Documentation]
[IBM Db2 Warehouse on Azure - Documentation]

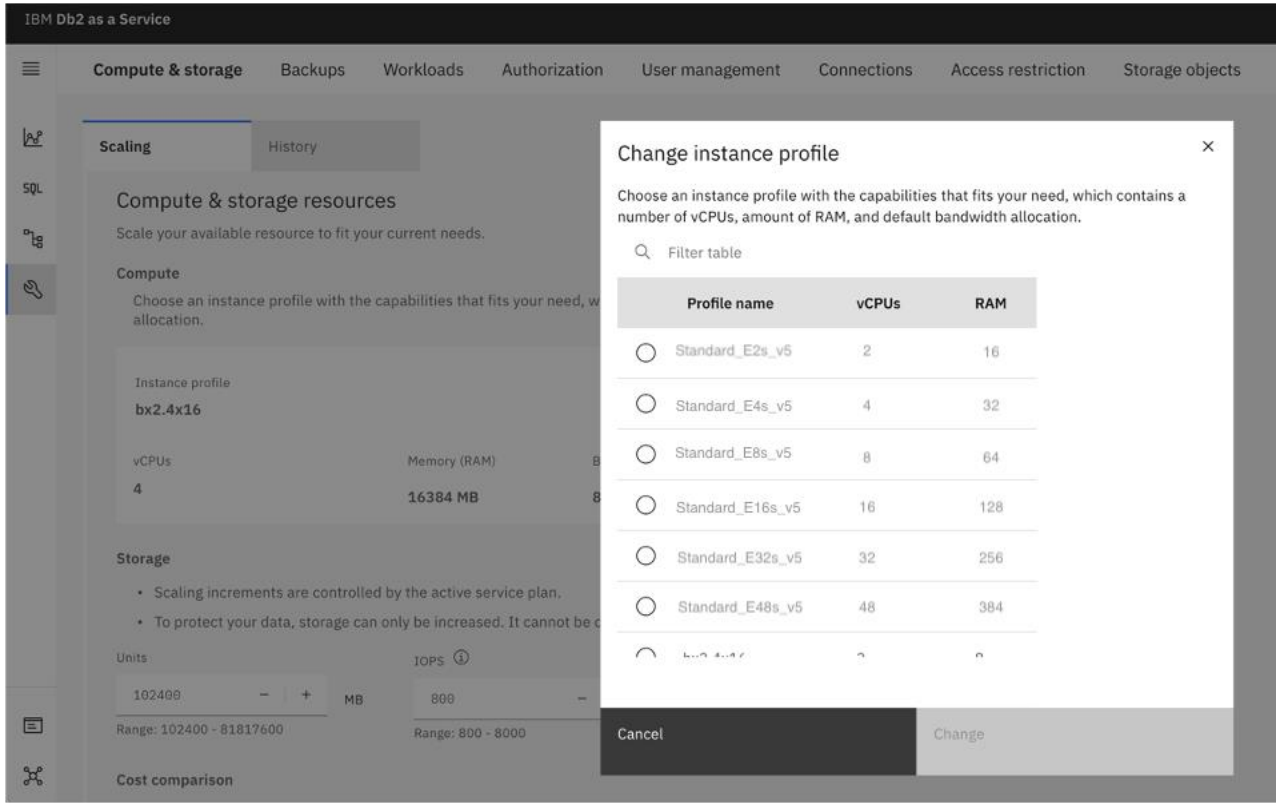
Scalable

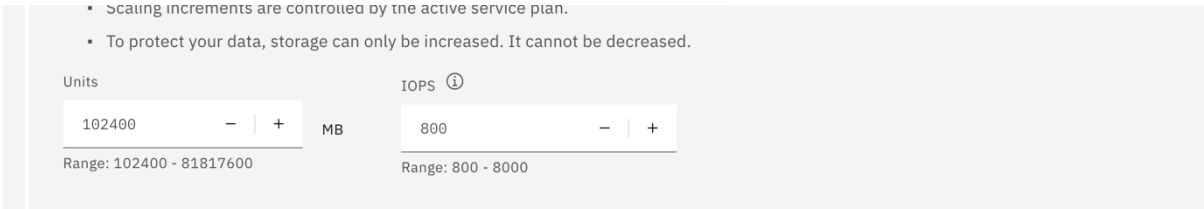
Automated independent

scaling of storage size vs. storage performance and ability to scale between compute instance types easily

Set your scaling options

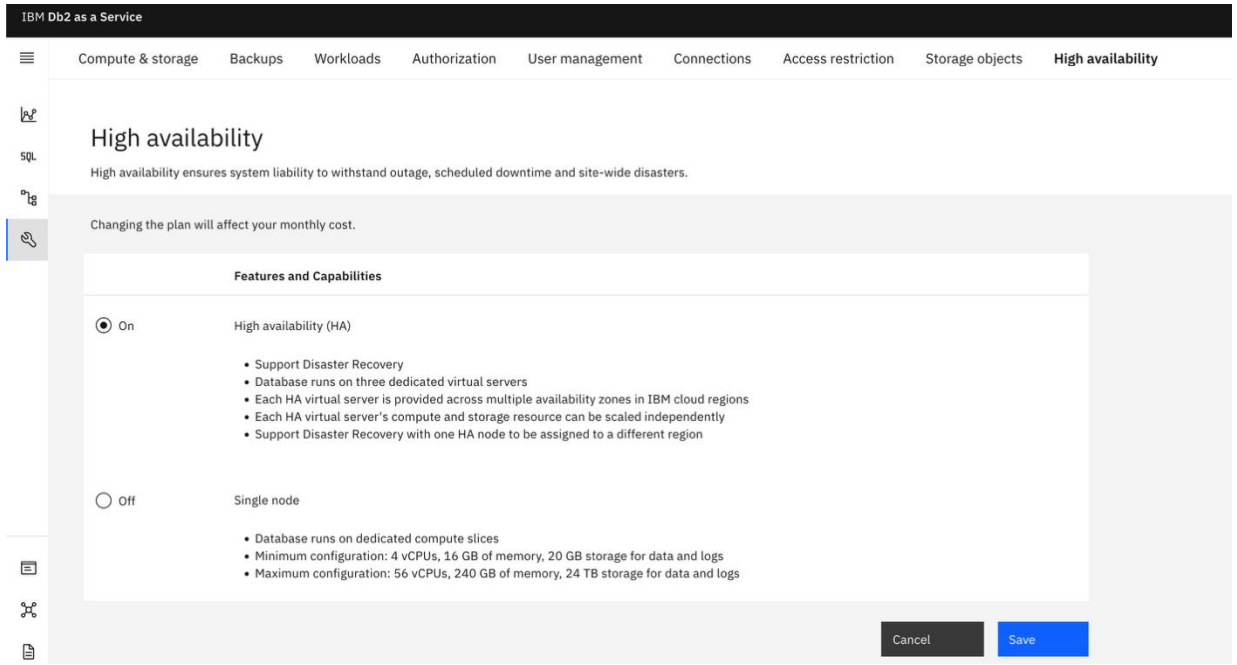
Easily set your scaling schedule and control your cloud costs





Highly available

With cross availability zone redundancy and read replica capability

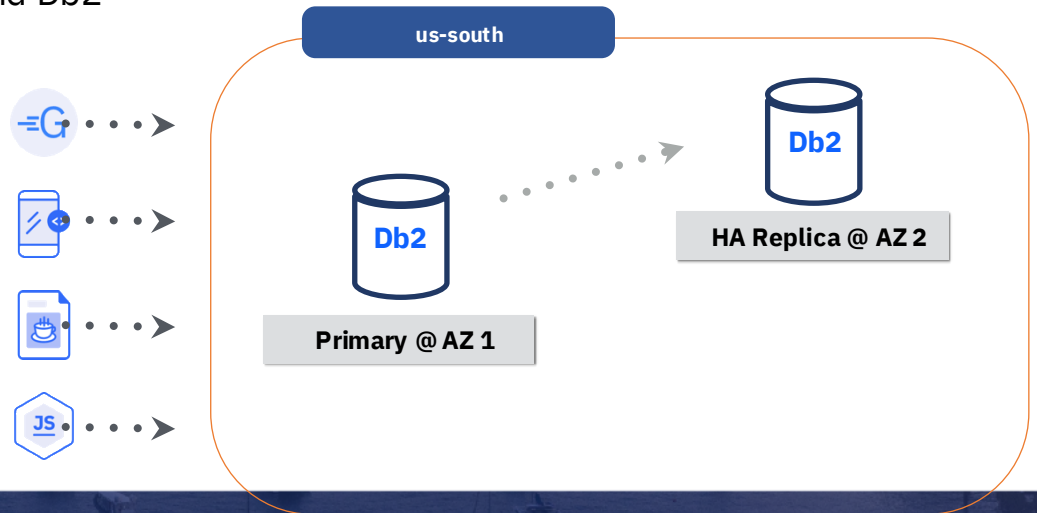


Active/Passive deployment
Single read/write node (Primary), read-only replicas (HA Replica), spanning multiple availability zones (AZ)

Easily upgrade to HA
Easily add HA capability to an instance.

HA standby replica for read-only access
Use the HA replicas for read-only access to your transactional/operational data for ad-hoc analytics. (available from service credentials - "host_ros”

Near Zero downtime with Automatic Client Rerouting
Instance scaling, failure recovery (failover) and maintenance operations are all near zero downtime with automatic client rerouting and Db2



Reliable

Self-service managed backups with point-in-time recovery

Schedule your backups

to run when it's most convenient for your business

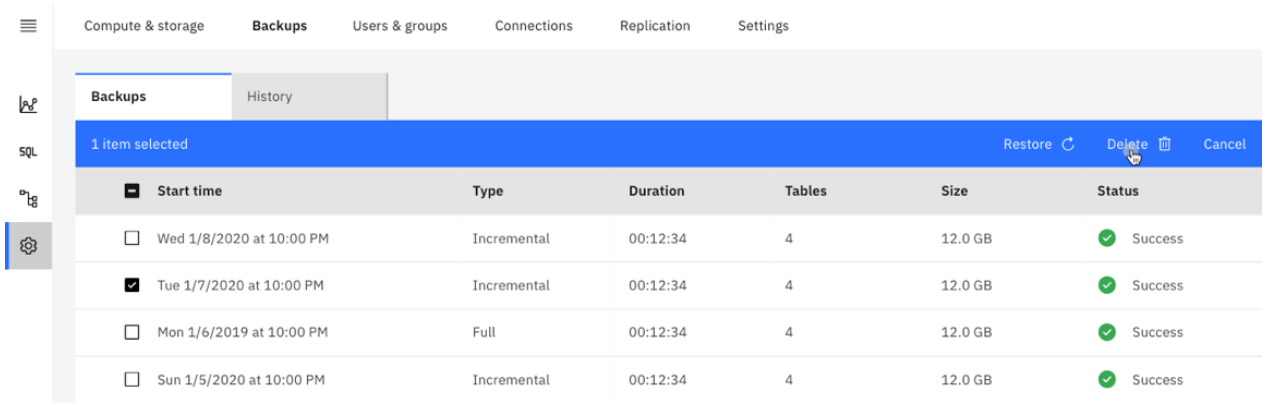
Point-in-time restore

with database logs backed up to object storage

- **Self-service snapshot backups**
- Choose the time of day for your backup to occur.

- **Self-service snapshot restore**
- Choose which backup to restore or to what point in time you would like to recover your data too.

- **Additional disaster recovery Db2 backups**
- Automated backups taken weekly, saved to Azure Blob Storage.



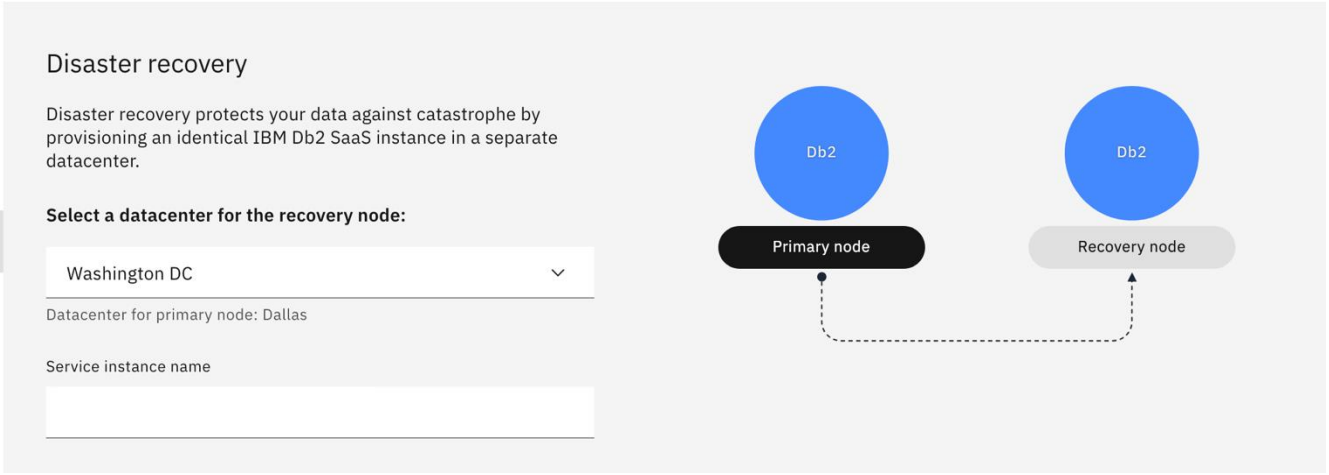
Survives disaster

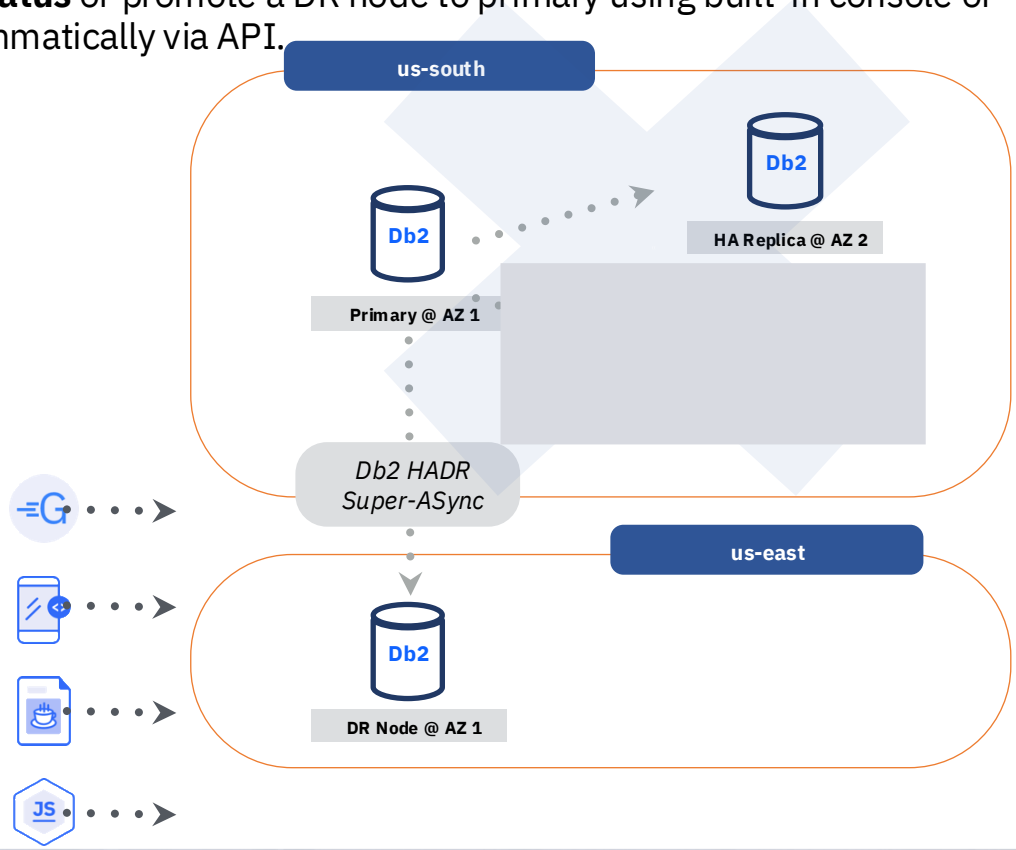
Deploy a DR node to a different region for cross-region survival and for read replica capability

A Geo-replicated **Disaster Recovery (DR) node** is an available option for high-availability tiers

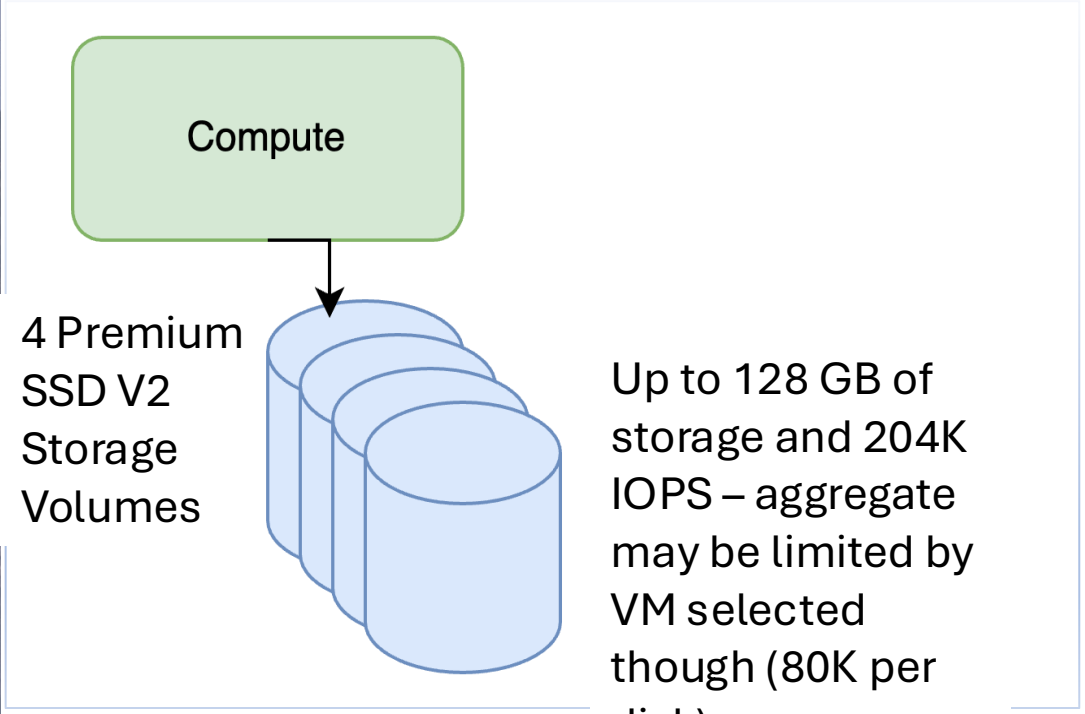
Failover manually initiated by user, giving you full control in when you decide to switch operation

View status or promote a DR node to primary using built-in console or programmatically via API.





Db2 Storage Layout Overview

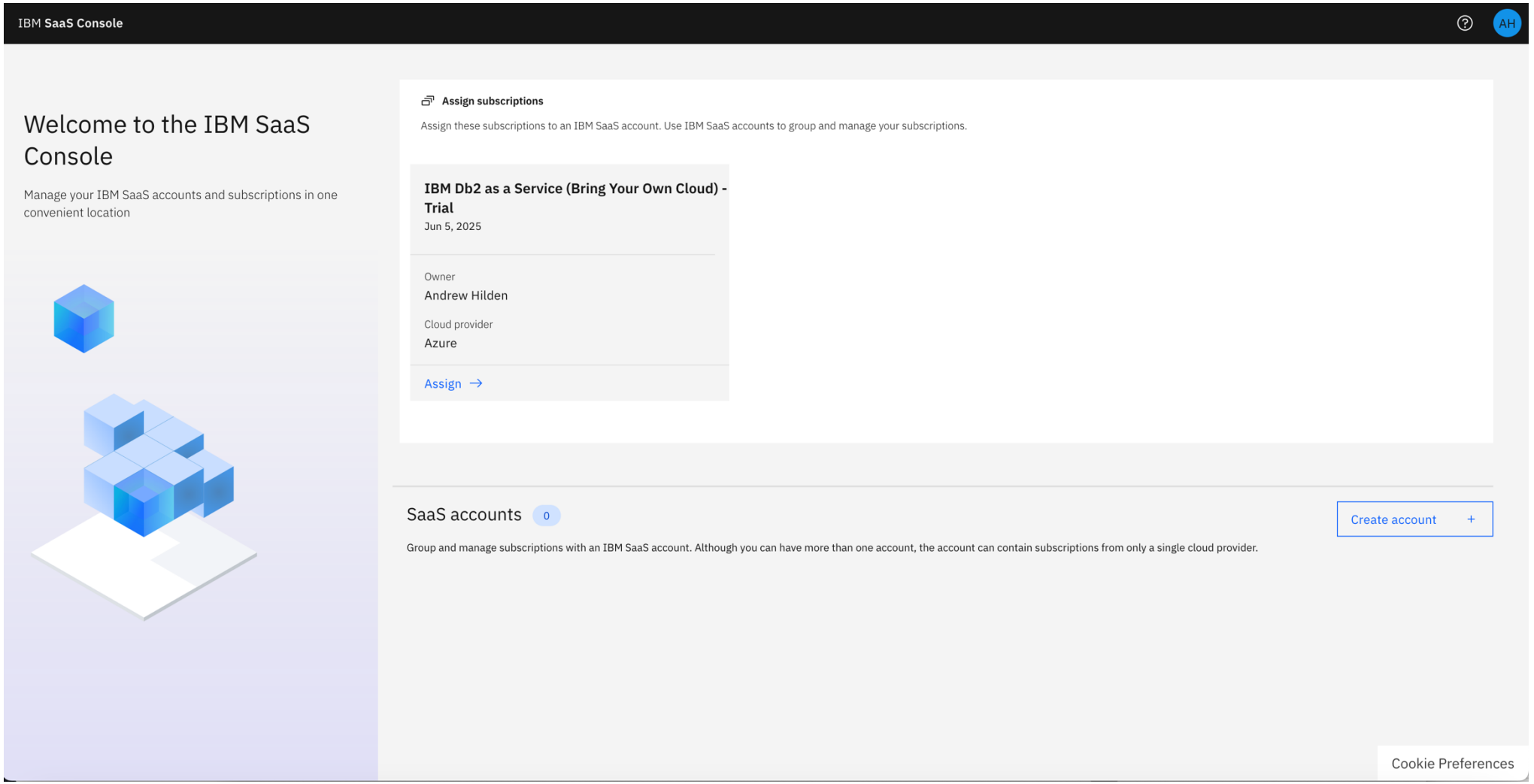


- Storage leverages Premium SSD V2 disks for transactional workloads
- Post GA - Ultra Disk and Standard Disk Support
- 4 volumes are provisioned with data striping handled by Db2 (base 12000 IOPS at this time)
- Scale IOPS up and down and independent of Storage Size (Save on Cost)
- Storage Size Autoscaling support

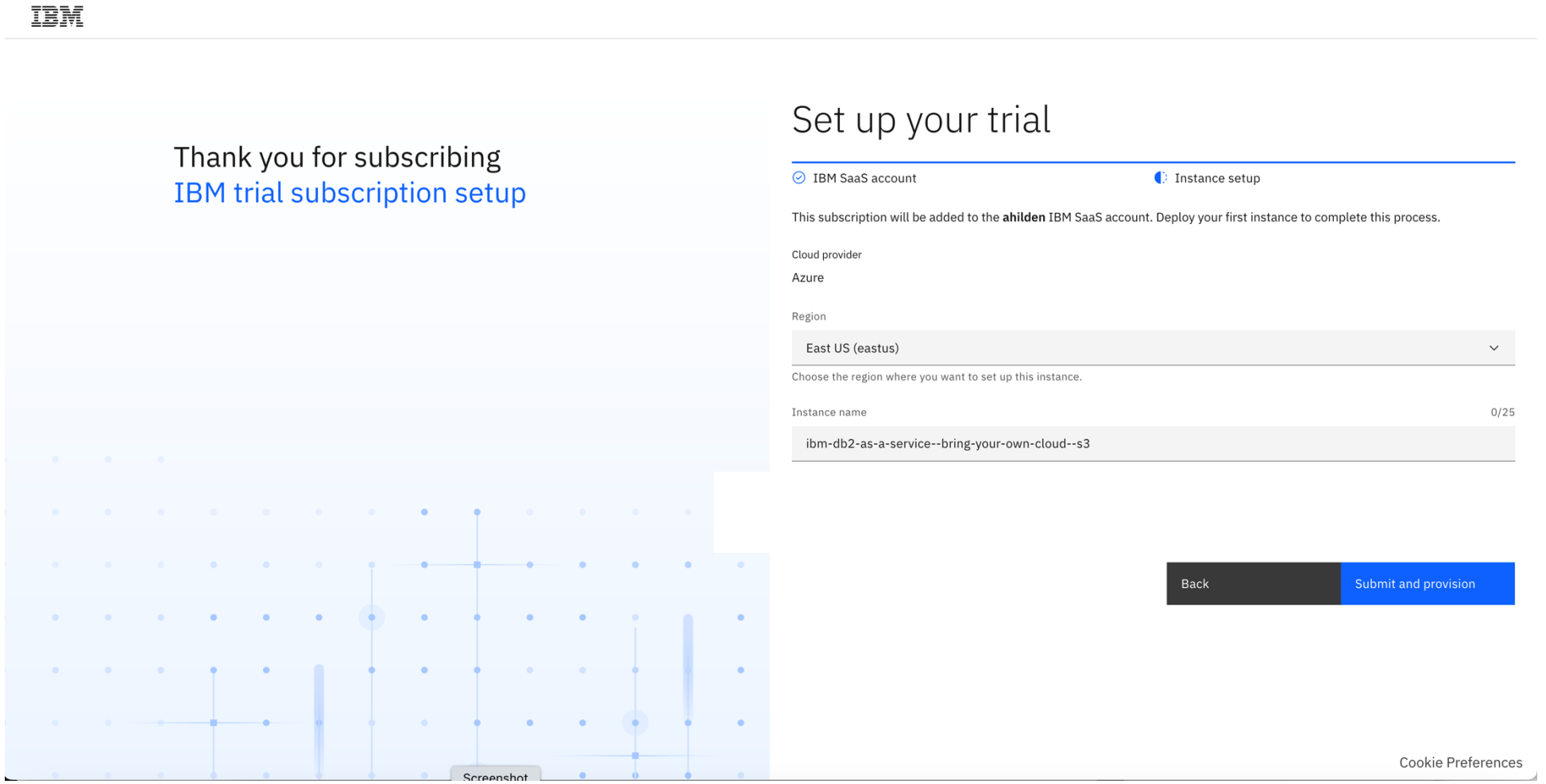
Db2 & Db2 Warehouse BYOC responsibility matrix

Service	Fully Managed SaaS	Joint Managed Bring Your Own Cloud (BYOC)	Self-Managed Software
Control Plane	IBM	IBM	NA
Compute Plane	IBM	IBM & Customer	Customer
Infrastructure Location	IBM Account @ Cloud Provider	Customer Account @ Cloud Provider	Customer Data Center
Provisioning	IBM	IBM	Customer
Upgrades to Control Plane	IBM	IBM	Customer
Upgrades to Compte Plane	IBM	IBM	NA
Security Monitoring and Posture	IBM	Customer	Customer
Monitoring	IBM	IBM	Customer
D/R	IBM	IBM & Customer	Customer
Backups	IBM	IBM	Customer
Db2 Engine Updates & Patches	IBM	IBM	Customer
Alerting	IBM	IBM & Customer	Customer
Service Support	IBM	IBM	IBM & Customer
Cloud Infrastructure Support	IBM	IBM & Customer	Customer

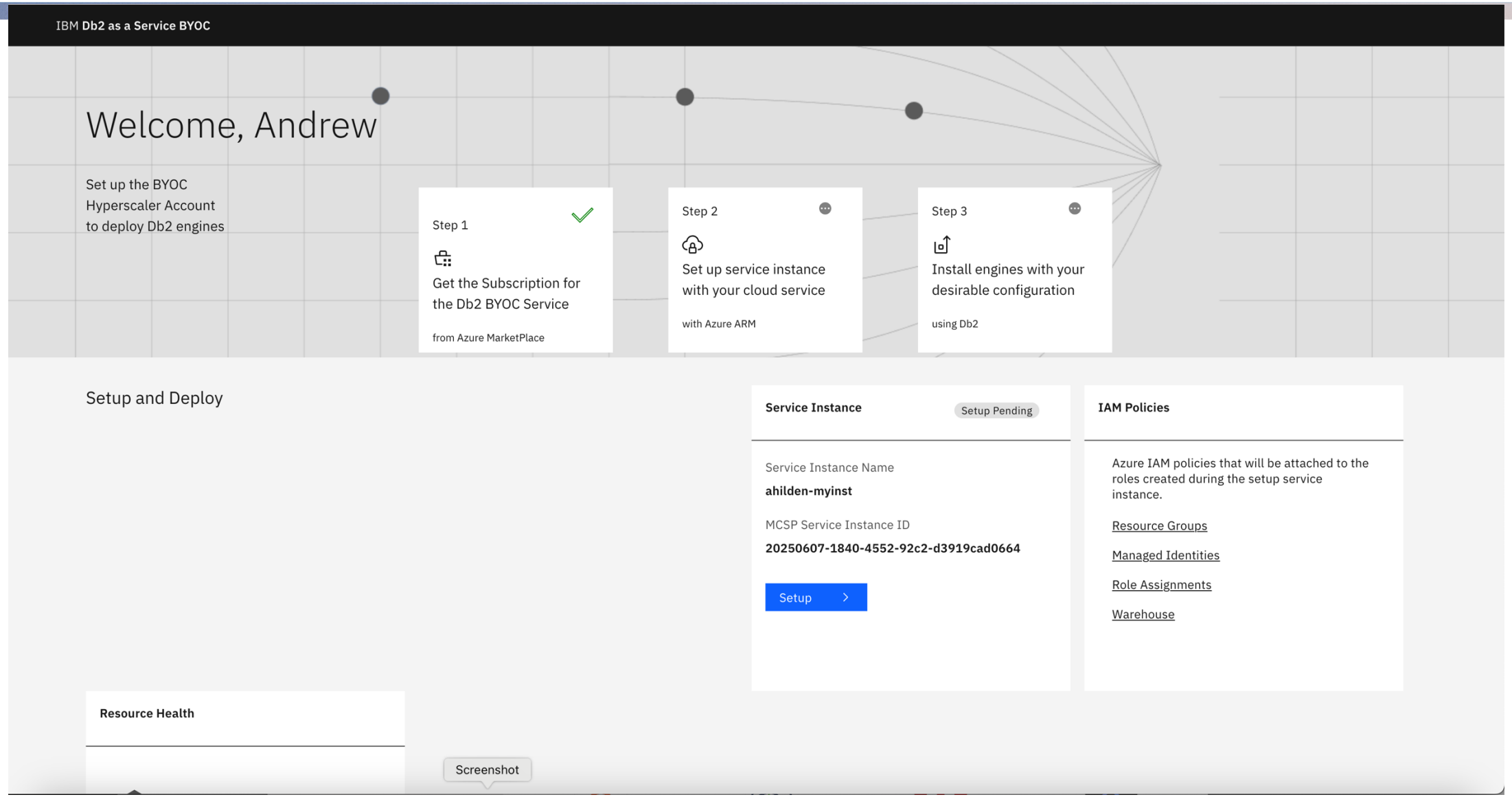
Step 0 - Obtain subscription from Azure Marketplace or IBM Seller



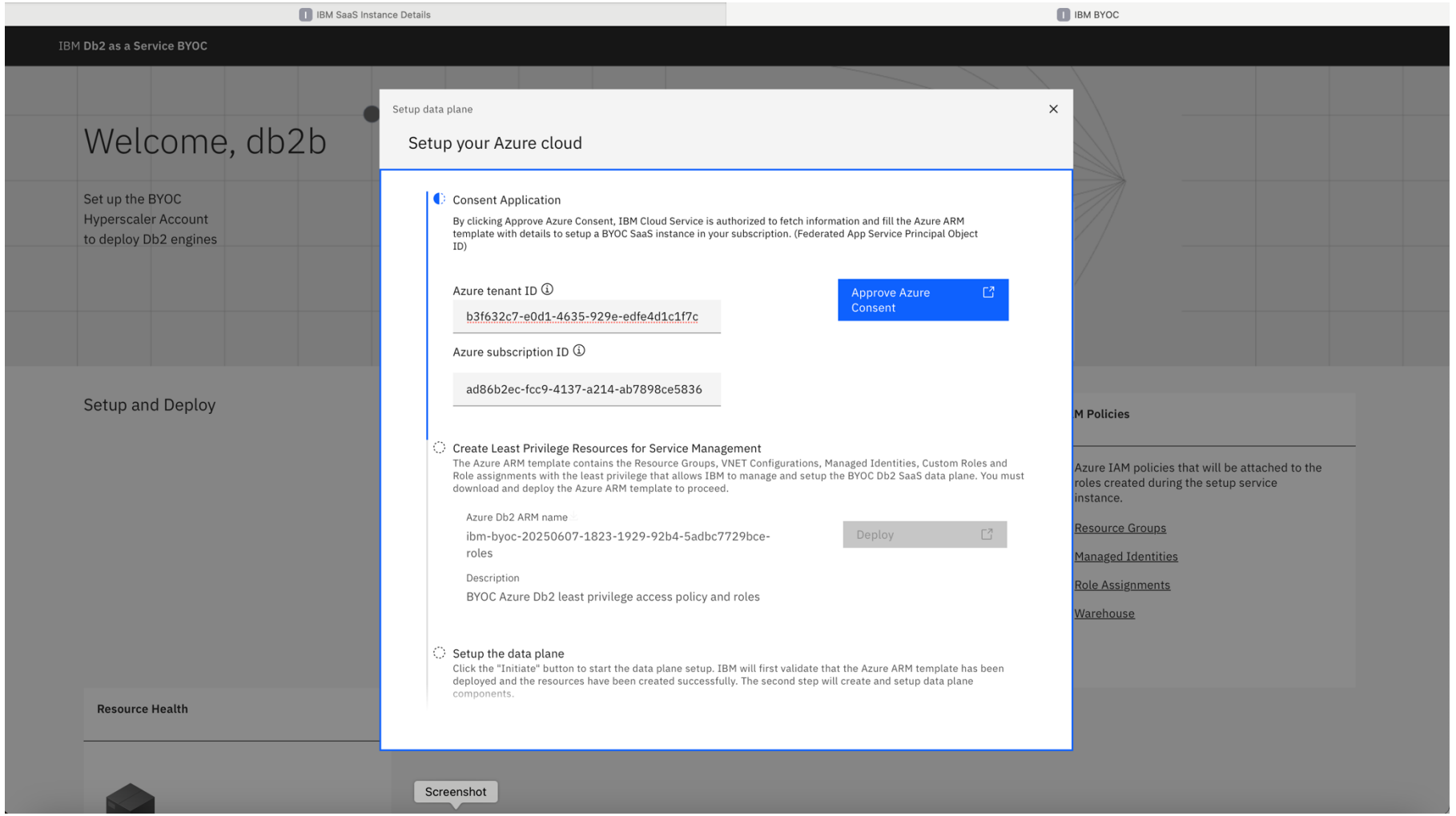
Step 1 - Create or use an existing account to get started



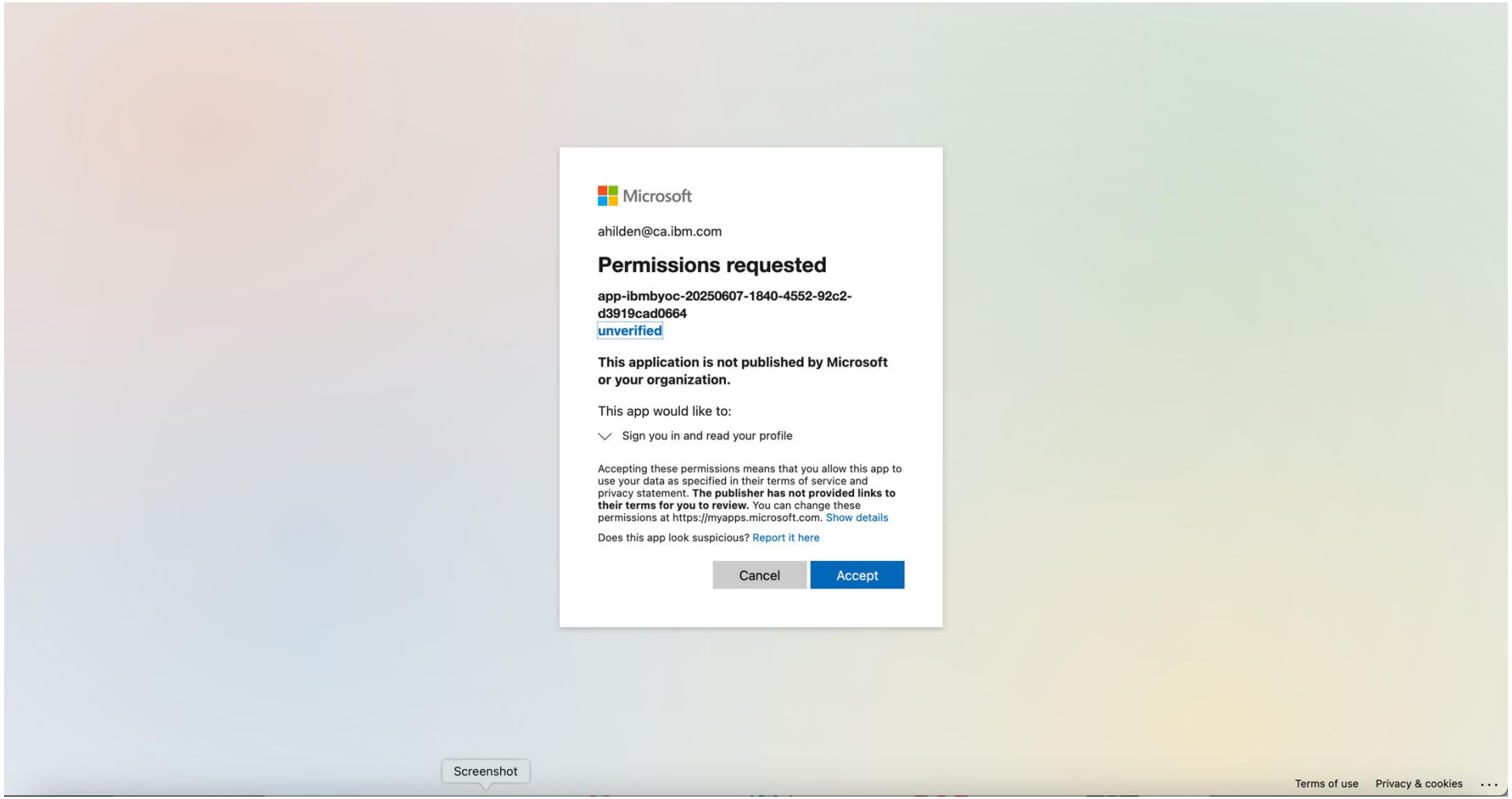
Step 2.1 - Provision the Data Plane



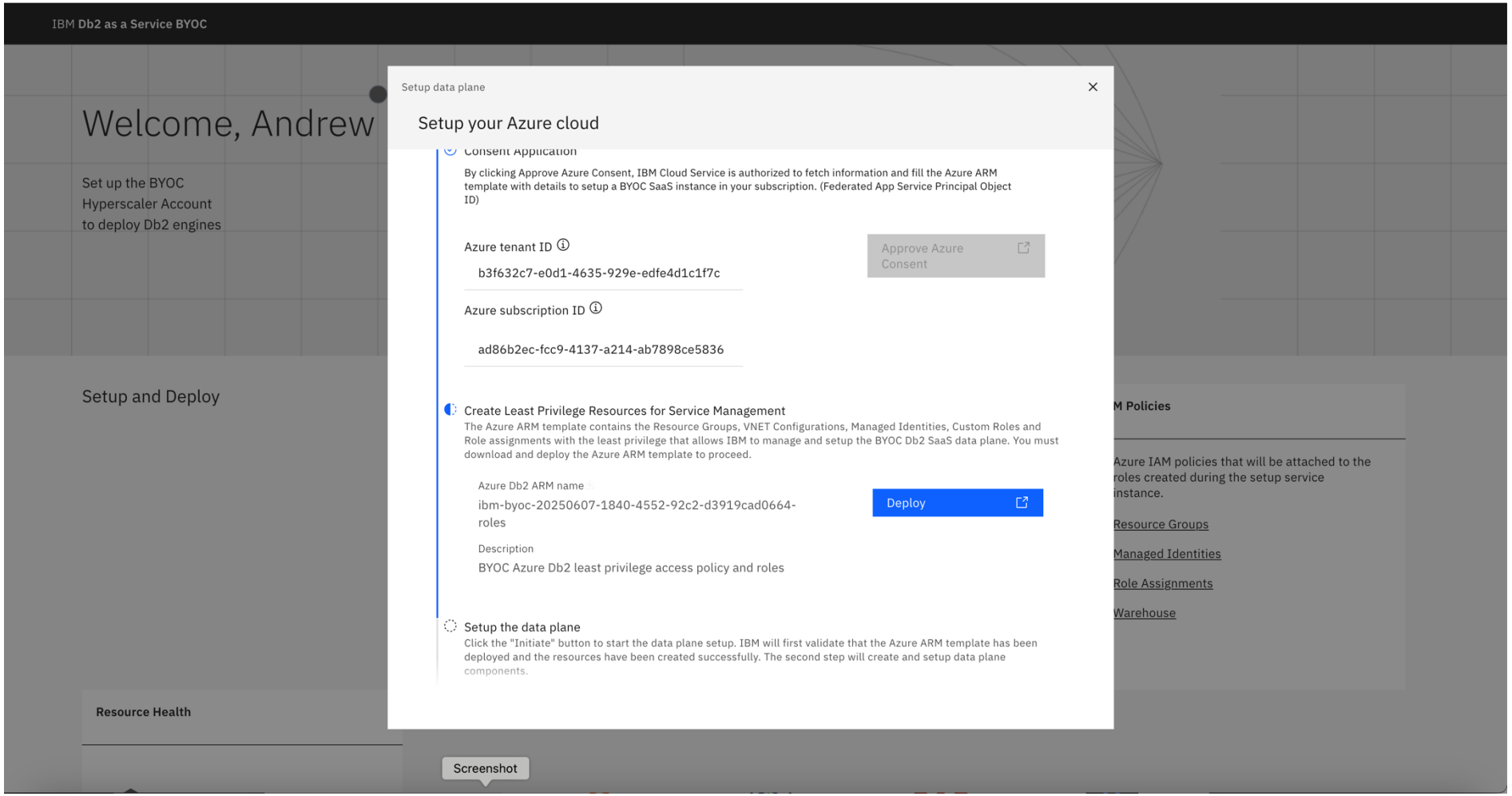
Step 2.2 – Configure and generate required ARM Template to Deploy



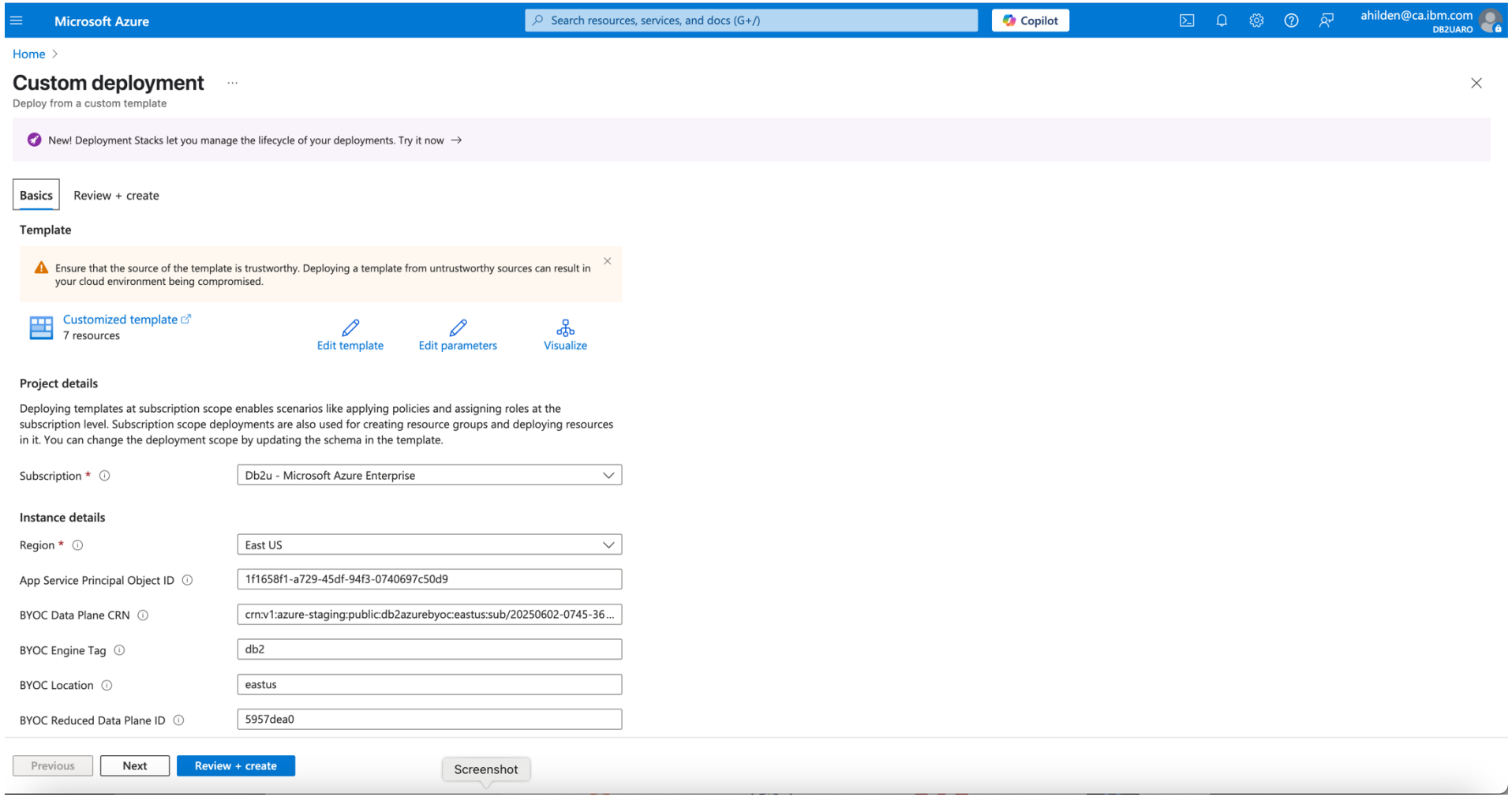
Step 2.3 – Allow Access to your Profile to Generate Required ARM Template



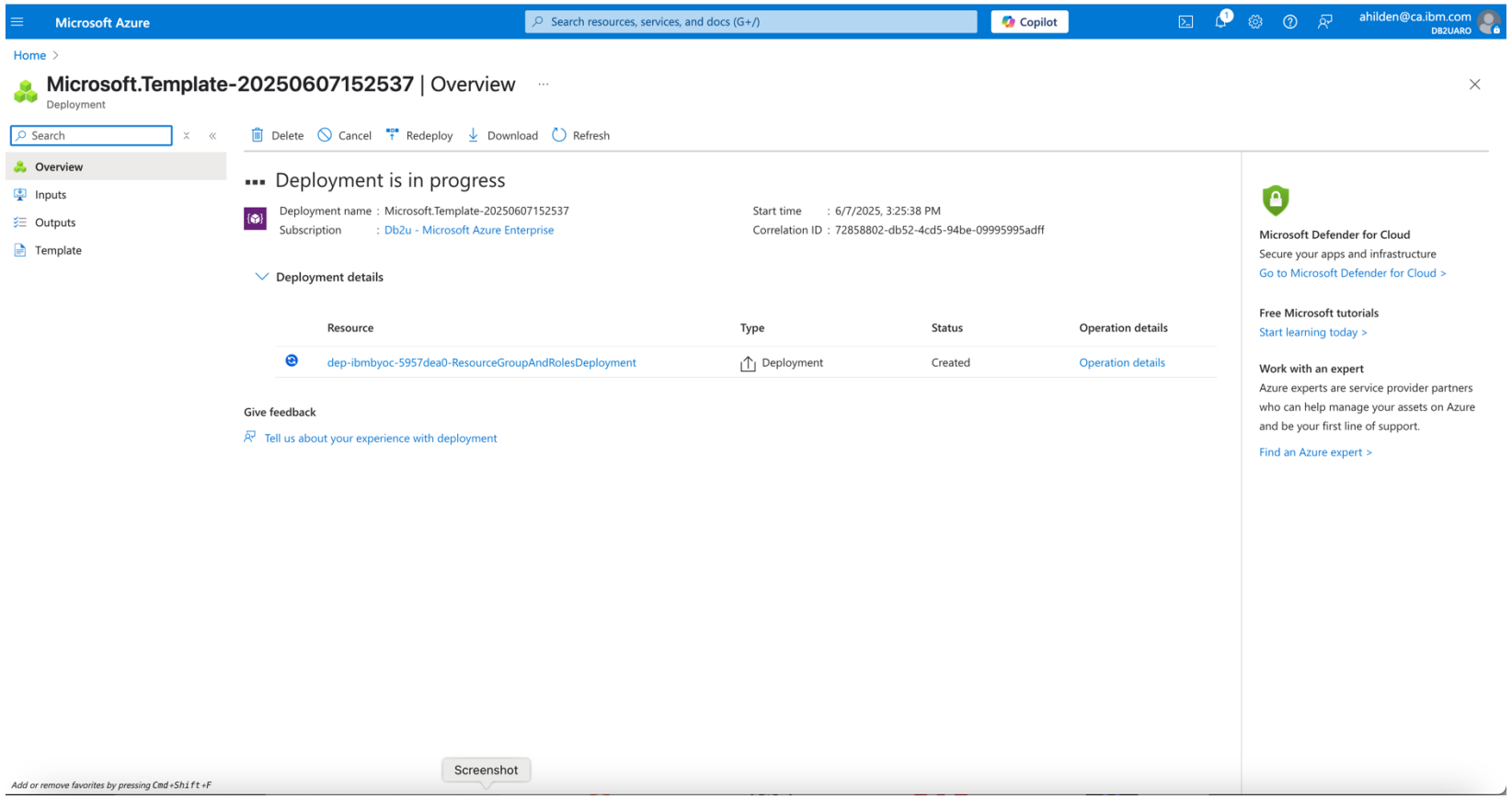
Step 2.4 – Generate and Initiate the Deploy of the ARM Template which Provides IBM access to Provision and Manage Db2.



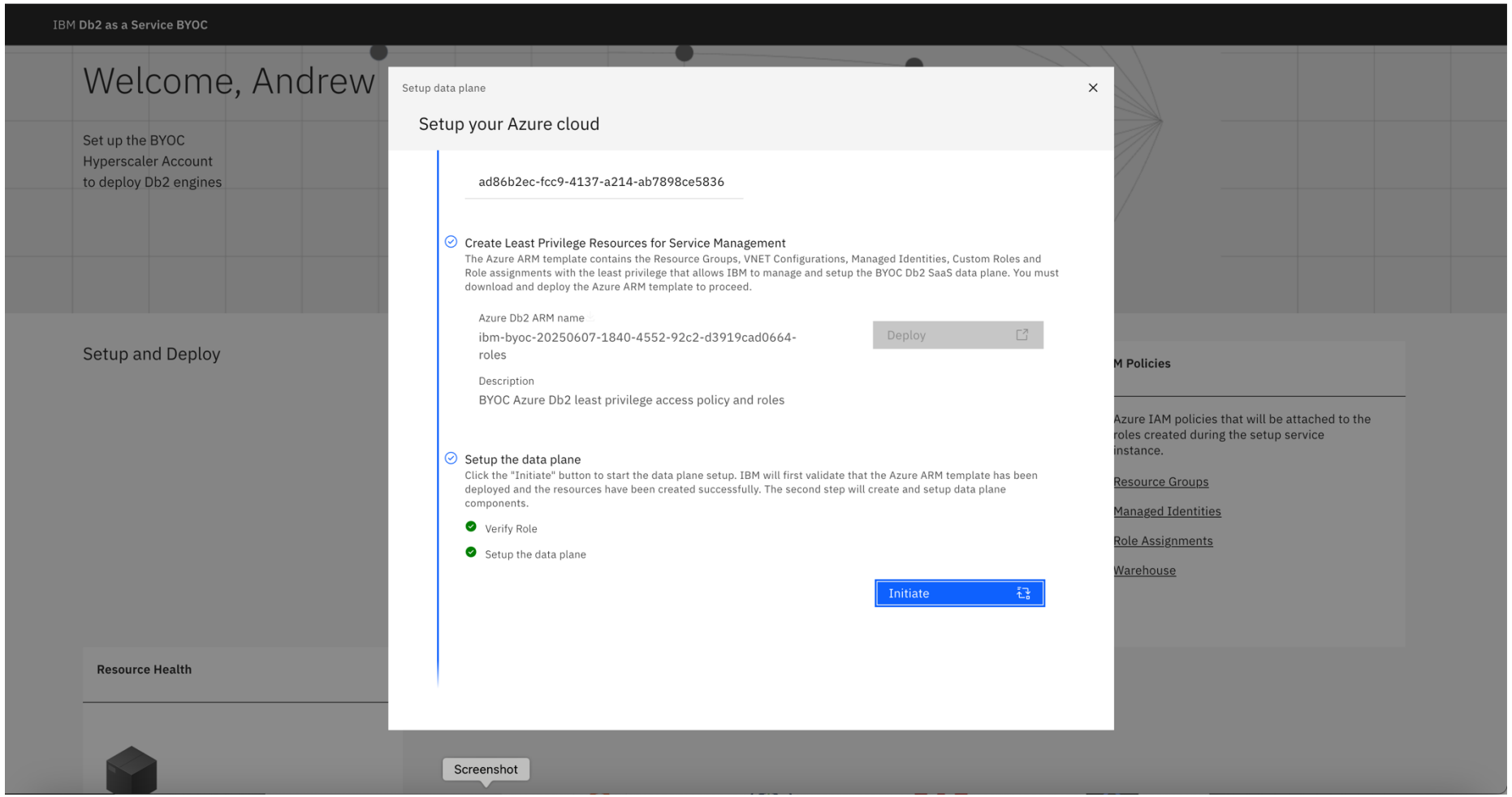
Step 2.5 – Review the ARM template which creates required access to resource groups in your account



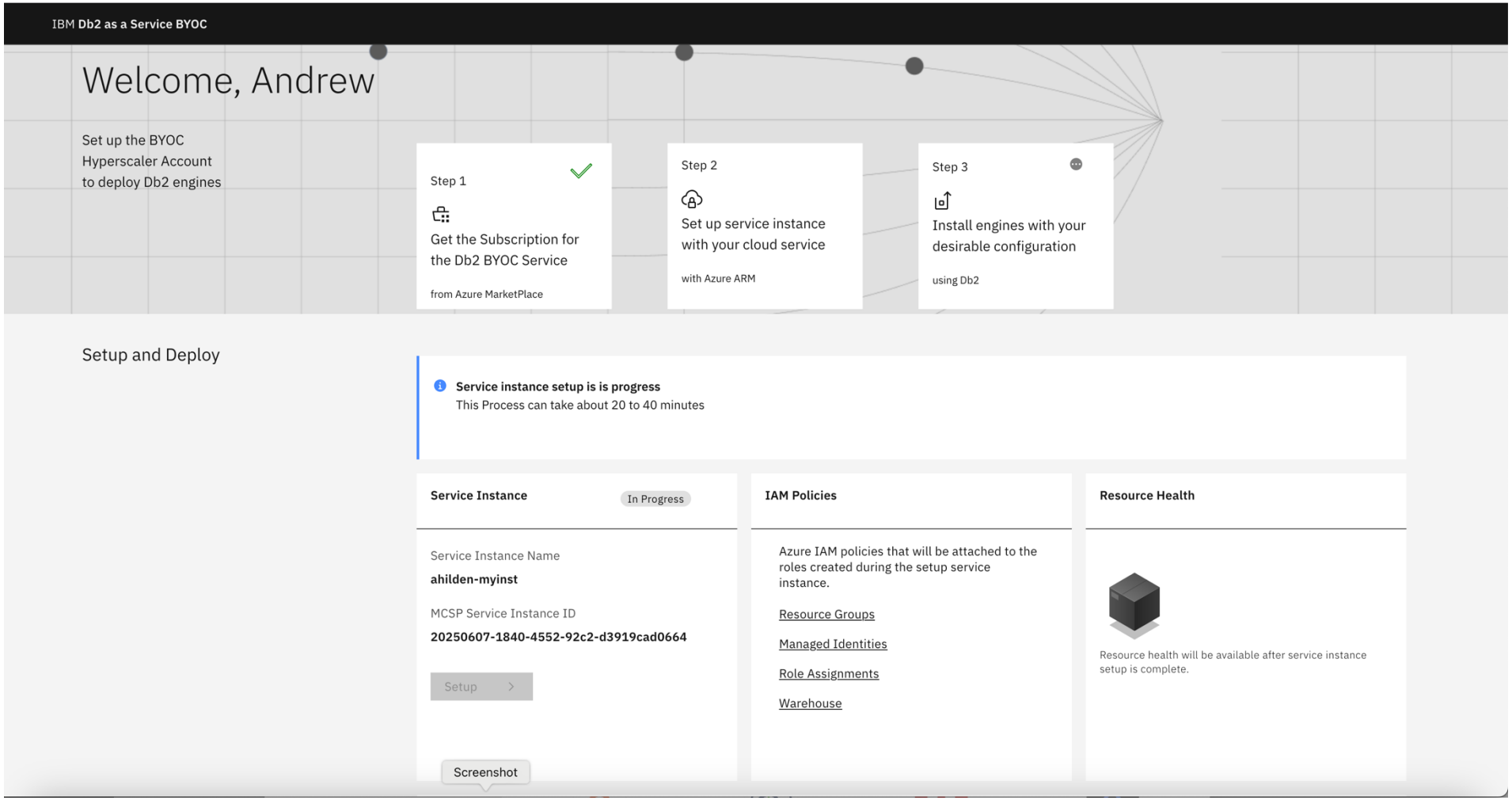
Step 2.5 – Complete deployment of the ARM template



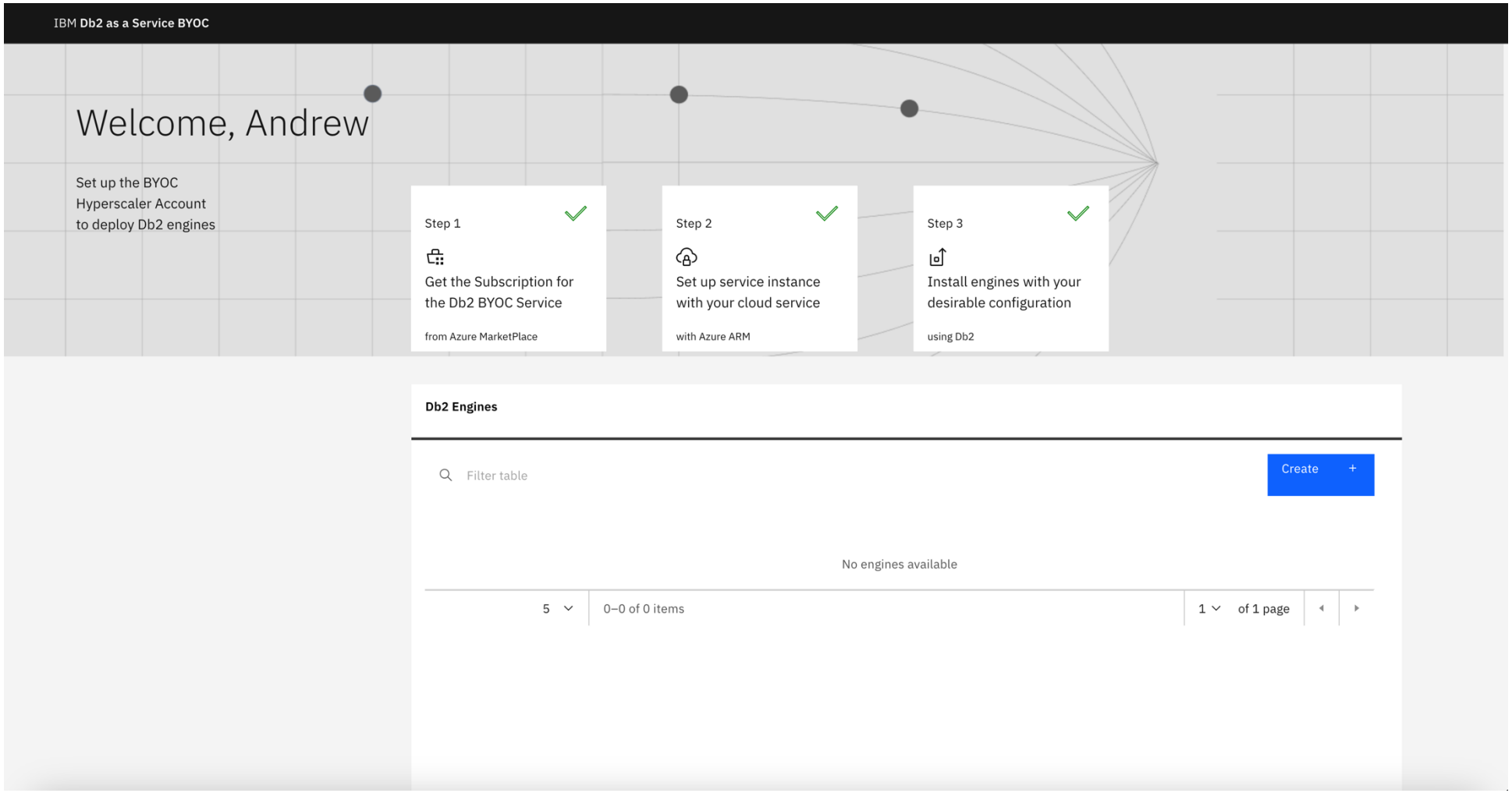
Step 2.6 – Deploy the data plane



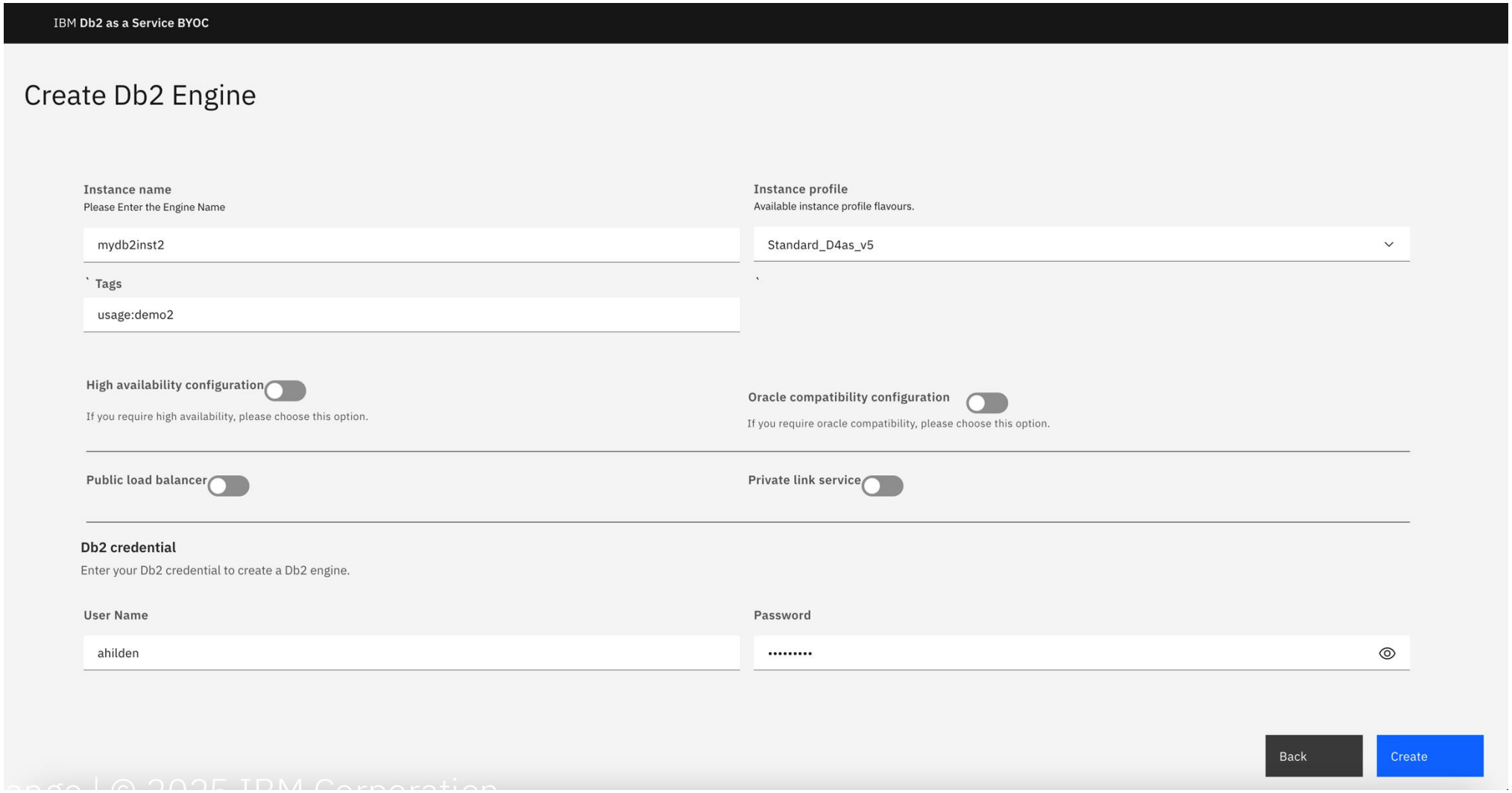
Data Plane Creation Takes about 40 minutes to Complete but is a One Time Operation.



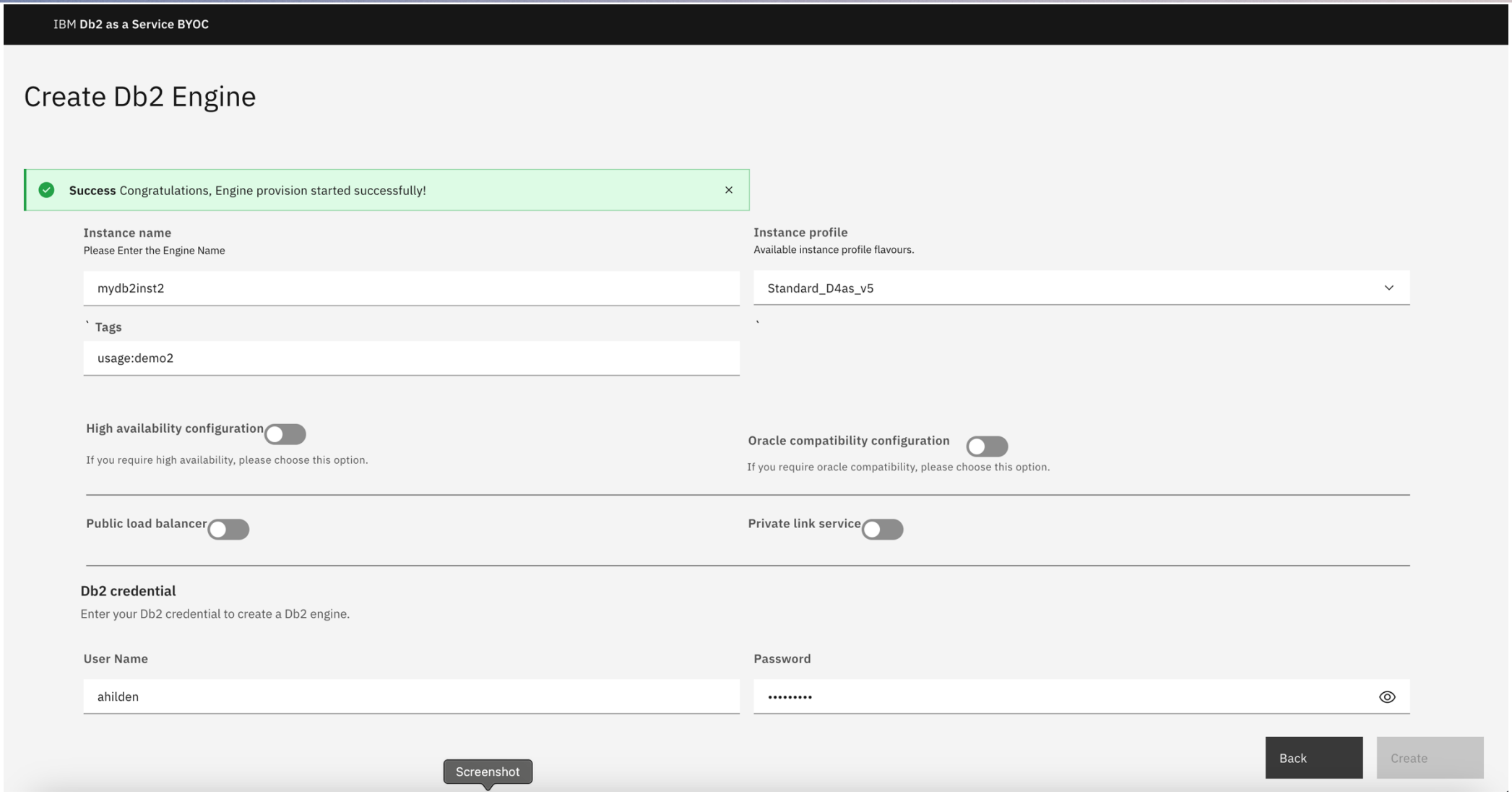
Step 3 – Create the Db2 Engine (s)



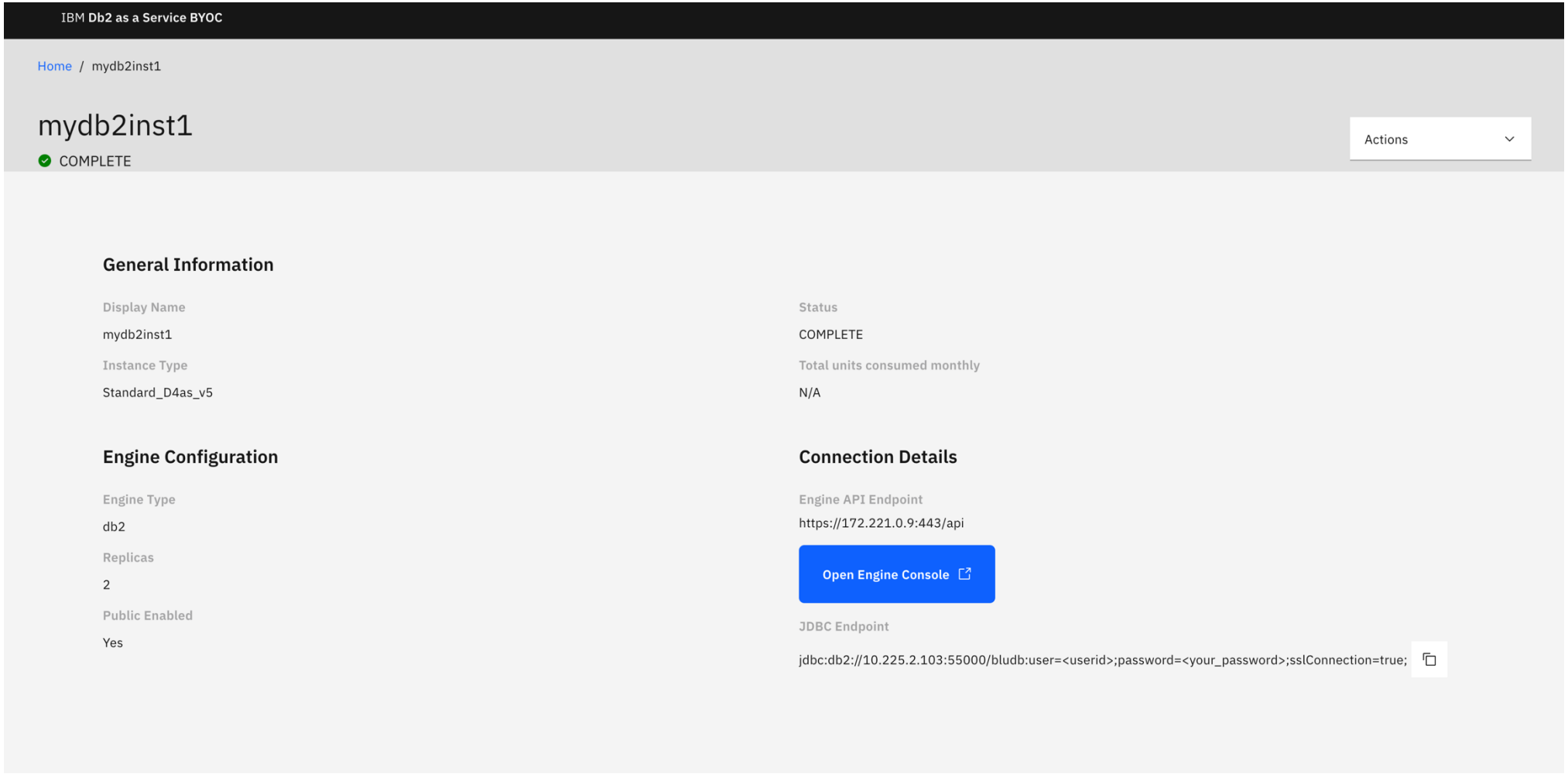
Step 3.1 – Select the Engine Configuration Options



Step 3.1 – Deploy!



The Db2 engine deploys in minutes is fully managed and ready to use – in your own account!



Db2 as a Service Bring Your Own Cloud
Demo

Db2 as a service on Azure

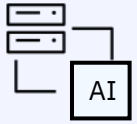
[Demo - Db2 BYOC - Azure]

AGENDA

- Db2 Cloud Services – Update and Refresh
  - Amazon RDS for Db2
  - IBM Db2 SaaS
  - Db2 pureScale - Infrastructure as a Service
    - Azure and AWS
- Db2 SaaS on Azure - Bring Your Own Cloud
- What's coming
  - Quick Intro Db2 Serverless
  - Db2 Genius Hub Enabled Services

Introducing the Db2 Serverless, enabling AI workloads and AI development for a New Era

Db2 Serverless, provides an infrastructure free SaaS experience and enables developers to create faster then ever before while enabling scaling and enterprise features for all database workloads.



AI Ready

→ Built for AI development and applications enabling developers to create database applications and make modifications using powerful integrations and branching capabilities.

Worry free

→ Complete autonomous SaaS workloads with enterprise capabilities freeing you up from the management of database resources

Flexible

→ Dramatic cost savings for workloads while allowing you to meet the highest demands when needed

Enterprise Grade Db2, Serverless Platform, On Demand Resources, Pay only for what your workload requires. Meet demands of Machine-Driven AI workloads, Enables 10 X Engineering

Enterprise Grade SaaS

- Fully Managed

Db2 Serverless Provides full SaaS Capabilities

Activities

- Managed of Patches and Updates
  Patches and updates are applied for you with zero or minimal downtime
- Monitoring and Availability
  Fully monitored to detect problems and make sure the database is always available.
- Health Check
  Proactive scans for common issues
- Backup & Recovery
  Automated backups with cross regional redundancy and point in time recovery to ensure your data is safe.
- Full support
  Automatic and full service support

Resource Free

No resources to worry about

Db2 Serverless automatically scales up and down to meet your workload requirements..

Activities

- Scale up as workload grows
  Db2 Serverless identifies and rapidly scales up to ensure performance remains consistent
- Scales down to 0 to save costs
  Db2 Serverless scales resources down to 0 to ensure you are not paying for idle resources
- Pay for what you use
  Db2 Serverless is built to optimize costs by only paying for what you use.
- Configurable
  Configure minimum and maximum resource limits to ensure you are in control of your costs

Ready For AI Workloads

Optimized for Context Engineering and AI Workloads

Built with context engineering in mind to ensure allowing for rapid prototyping and feature delivery and capable for meeting the depends of AI machine driven workloads

Activities

- Build database enabled applications quickly
  MCP server allows AI tools like Bob and Claude to interact with Db2 Serverless directly accelerating productivity.
- Great for Ephemeral Development
  Quickly provision and delete instances in seconds allowing you to prototype and test with speed and without worry.
- Powerful Branching Capabilities
  Powerful branching capabilities increasing your velocity.
- Great for spikey and machine driven unpredictable workloads
  Machine driven workload require management that operates as the same pace

AGENDA

- Db2 Cloud Services – Update and Refresh
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  - Db2 pureScale - Infrastructure as a Service
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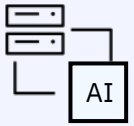
Db2 Genius Hub - SaaS

Introducing the Db2 Genius Hub SaaS, powered by the all new Db2 Genius Hub



Autonomous database that proactively monitors, detects, and reacts to issues, acting autonomously when appropriate, and engages human judgement only when necessary.

Available as a SaaS and enabled on all Db2 Cloud services as well as it's able to manage your On Premises Databases as well!

IBM Data and AI
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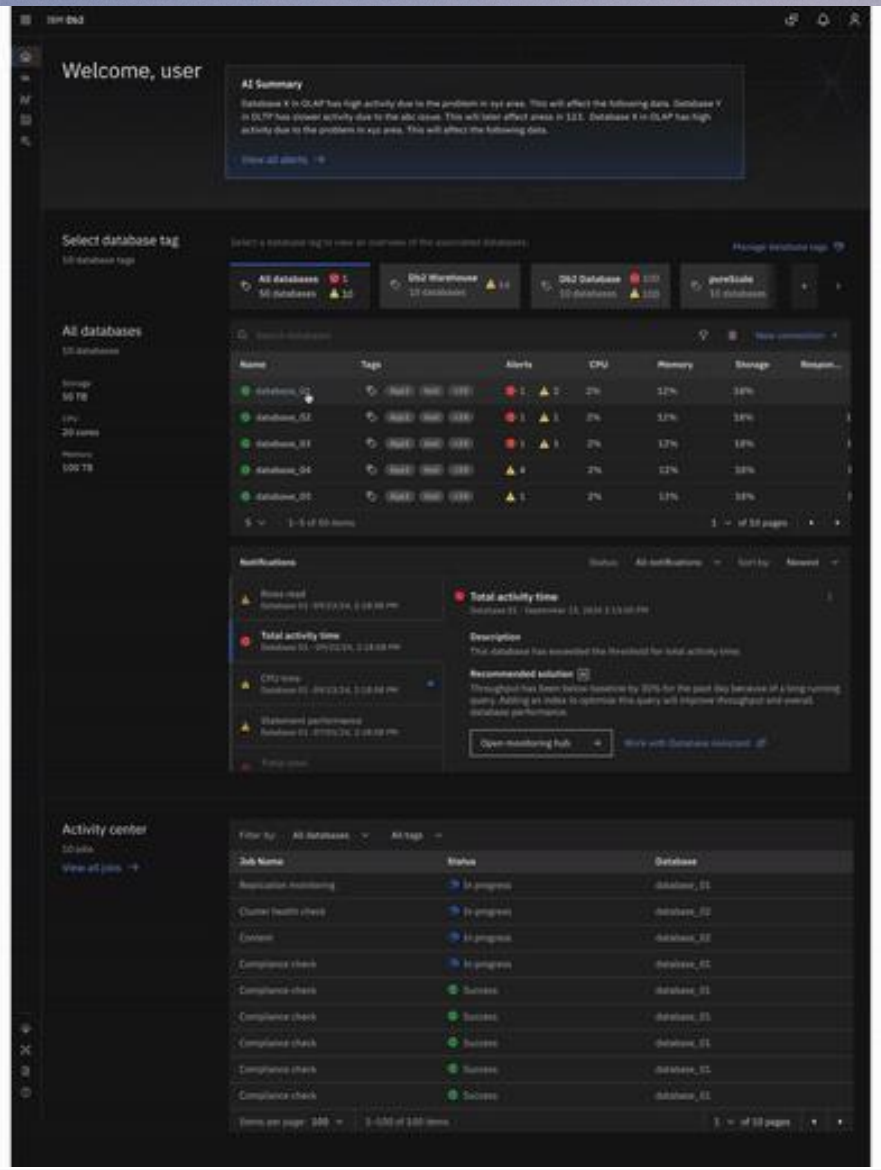
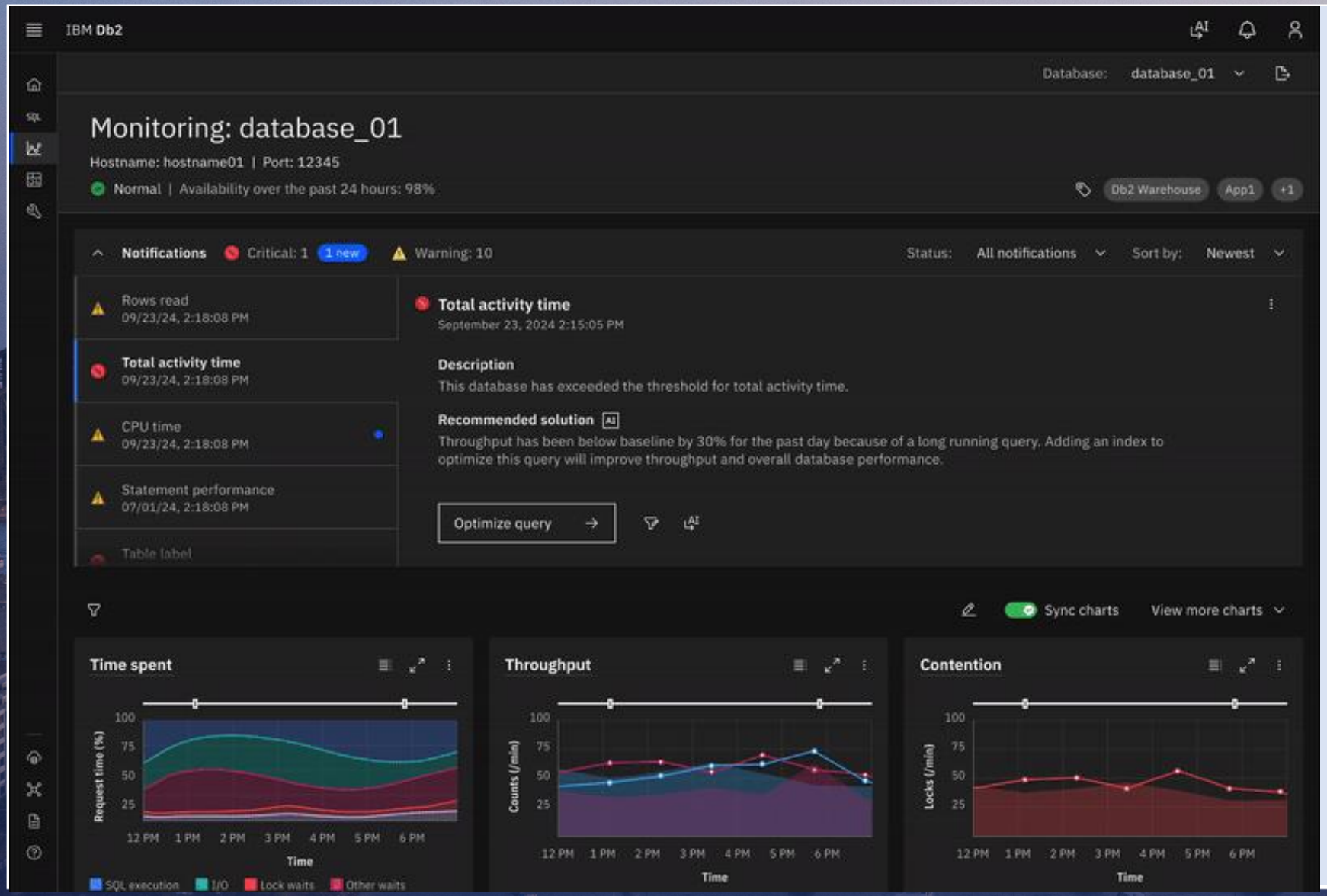
Unified Management



Monitor and manage all your Db2 instances—on-prem, cloud, or hybrid—from a single interface

- **Single Pane of Glass:** See all Db2 environments in one place, eliminating silos.
- **Real-Time Insights:** Instantly track availability, performance, and key metrics.
- **Fast Problem Resolution:** Drill down into any instance to diagnose and act quickly.

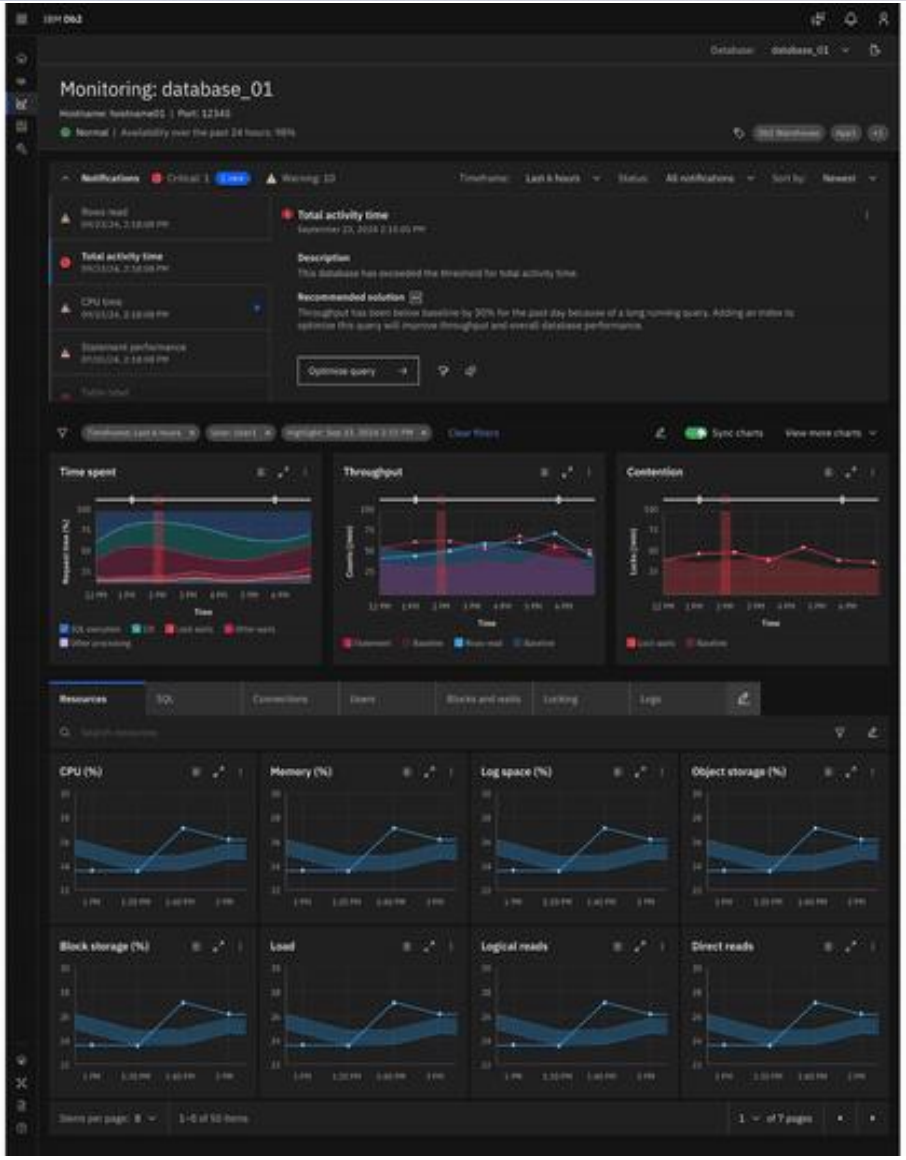
Database AI Assistant



Swiftly resolve database issues and manage expanding environments efficiently

- **Db2 Expert:** Get answers to your Db2 questions, faster
- **Monitoring Metrics:** Quickly access key metrics using natural language queries
- **Simplified Troubleshooting:** Get recommendations for troubleshooting common database issues
- **Advanced Analysis:** Accurately identify root cause of performance issues, bottlenecks, deadlocks

Monitoring Drill Downs



Quickly identify and resolve database issues with powerful drill-downs and real-time insights.

- **Find Problems Faster:** Filter monitoring metrics by query, waits, or hosts to pinpoint issues instantly
- **Spot Issues Before They Escalate:** Get real-time alerts on slow queries, resource spikes, and outages
- **Understand What Changed:** Track historical trends and recent modifications to prevent recurring problems

IDUG

2026

Sydney | March 16 - 18

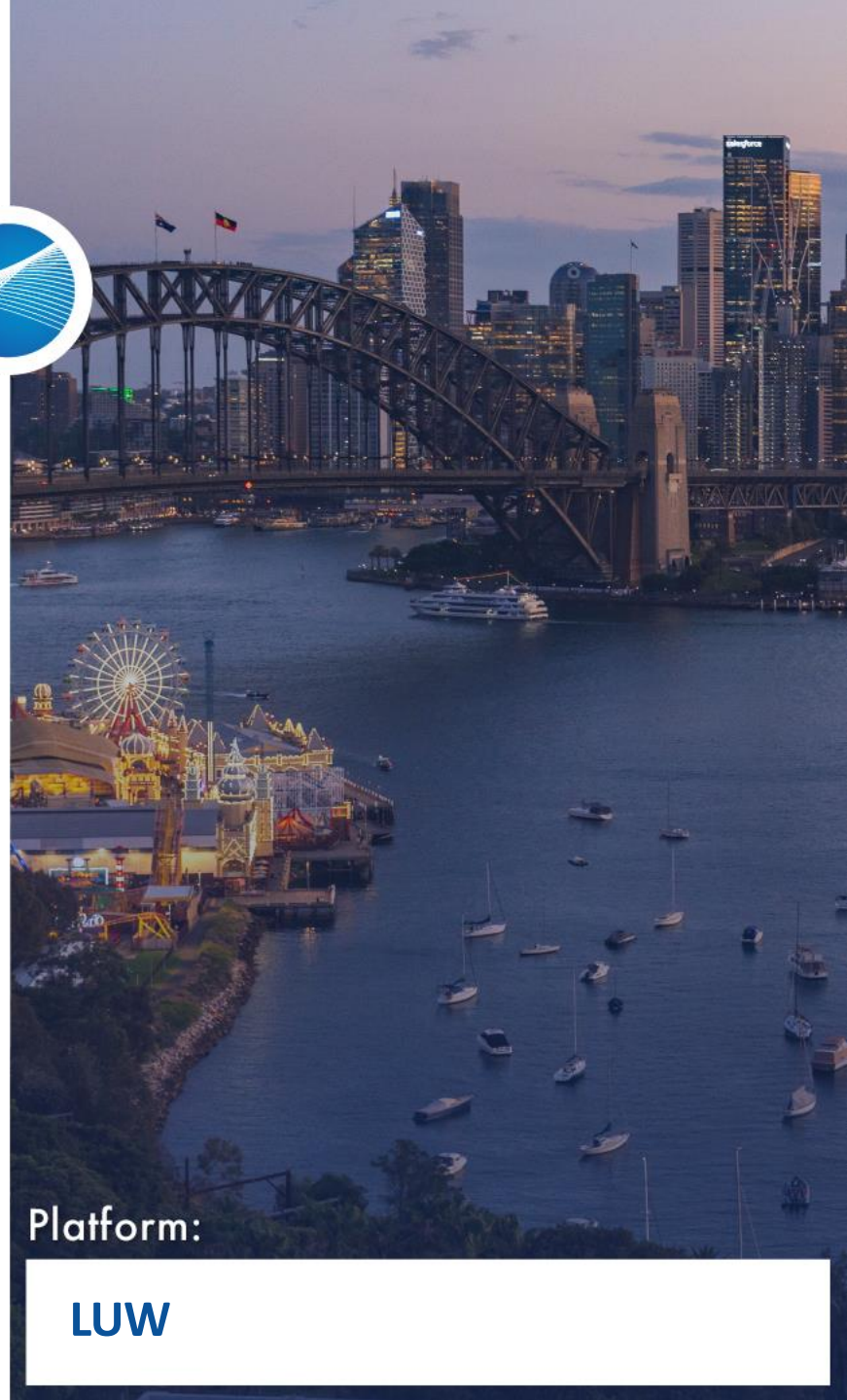
AU Db2 TECH CONFERENCE

Db2 Cloud Services Update

Andrew Hilden, *IBM*

Contact: ahilden@ca.ibm.com

Session Code: B08



Platform:

LUW

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2026 Australia Db2 Tech Conference