MicroStrategy Cloud Platform

How to Create a New Cloud Environment

- How to Create a Resource Center Account
- **How to Select the Right Environment**
- How to Access Your Services
- How to Create Multiple Environments
- AWS Configuration
- Azure Configuration

Managing Active Cloud Environments

Advanced Setup Information

MicroStrategy Cloud Platform APIs

How to Change the Interface Language

How to Submit Feedback

AWS Support Model

How to Select the Right Environment

MicroStrategy Cloud Platform for AWS | MicroStrategy Cloud Platform for Azure

»Comparison Table

Team

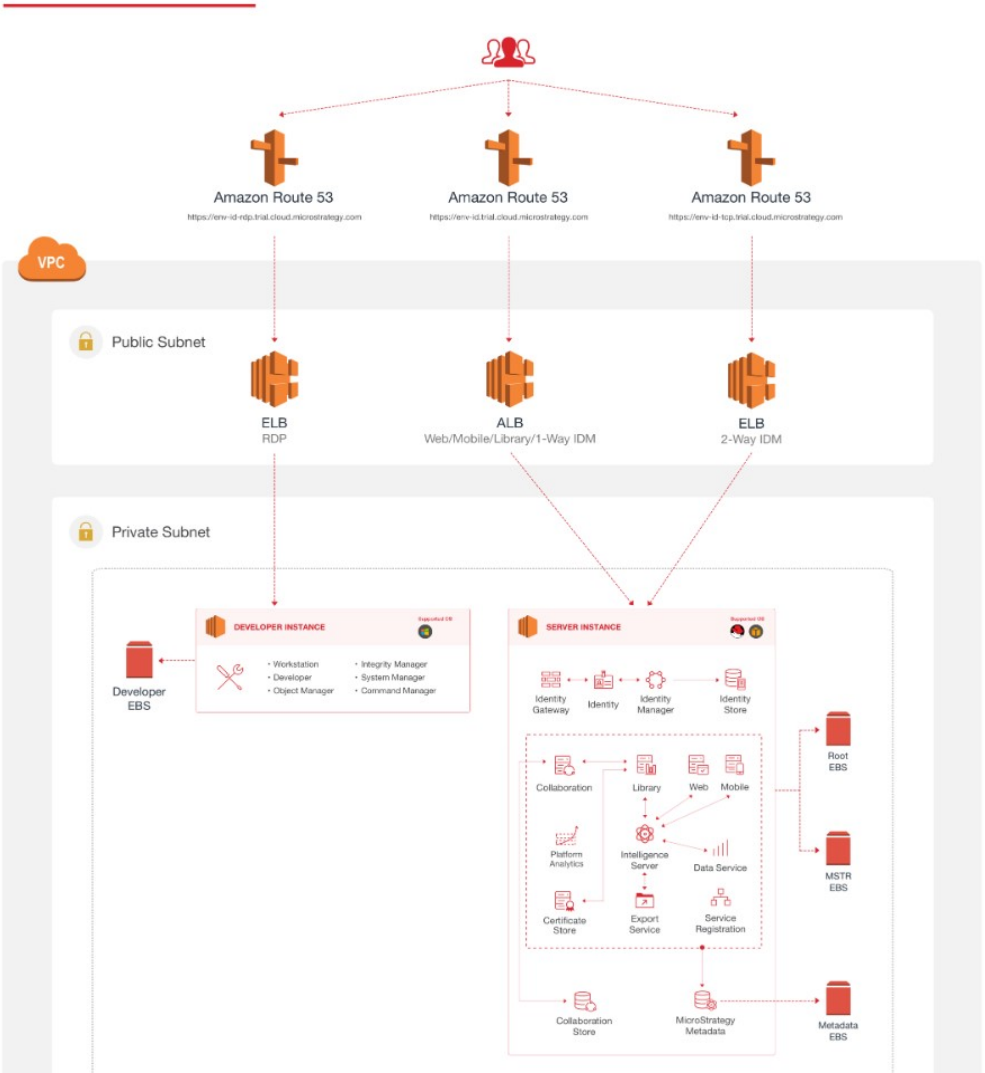
The MicroStrategy Cloud Platform for AWS Team Edition offers an all-in-one system designed for team application development and sharing. All the servers along with the metadata are on a single instance. You have the option to include a developer instance for data modeling and administration to increase productivity.

»Technical Detail

As MicroStrategy Cloud's simplest architecture, a Team environment is an excellent starting point for users new to MicroStrategy Cloud.

Technical highlights include:

- MicroStrategy Intelligence Server running on RHEL 7
- MicroStrategy Developer running on Windows Server 2012 (optional)
- MicroStrategy Web
- Web RDP and SSH access to the Linux and Windows machines
- Metadata hosted on the RHEL 7 machine in a MySQL database



All resources reside in a single Availability Zone in the VPC created by the Infrastructure stack.

The Linux Intelligence Server and optional Windows Developer machines both reside within a Private Subnet within the Availability Zone, while the AWS Elastic Load Balancer (ELB) resides within a Public Subnet within the Availability Zone.

Both the Linux and Windows machines are attached to the ELB which allows easy access to MicroStrategy Web for the Intelligence Server machine and easy RDP access for the Developer machine.

Around both the Linux and Windows machines you will see two AWS Security Groups. These Security Groups allow inbound traffic to each other, including RDP and SSH traffic.

> The Team Edition is the basis for the other two Editions. Department and Enterprise Editions have the above architecture at their core.

Department

The MicroStrategy Cloud Platform for AWS Department Edition is designed to cover the main requirements of small businesses or departments within large corporations.

It leverages the full power of the MicroStrategy Enterprise Platform while keeping the heart of the system (the Metadata repository) on its own dedicated resources.

The Department Edition provides:

- All the Enterprise Analytics capabilities available in the Team Edition
- Standalone metadata database to support higher performance and scalability
- Non-competing resources for the Intelligence Server and Metadata service for additional reliability
- The option to include a developer instance for data modeling and administration to increase productivity

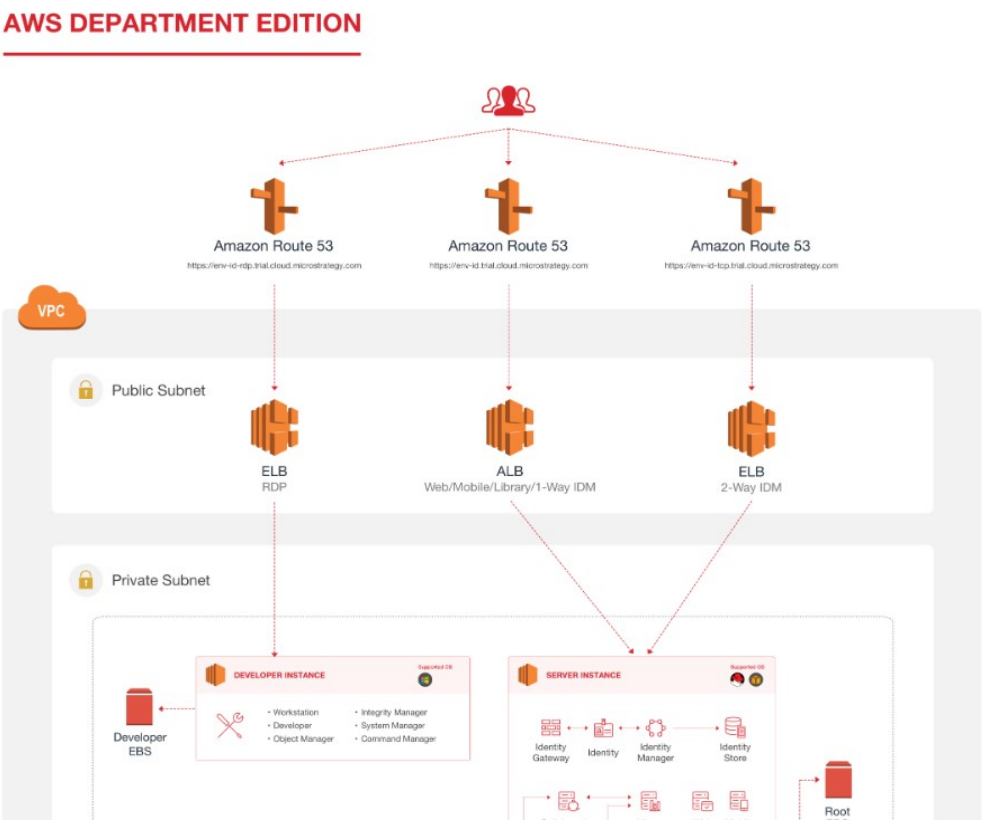
Technical Detail

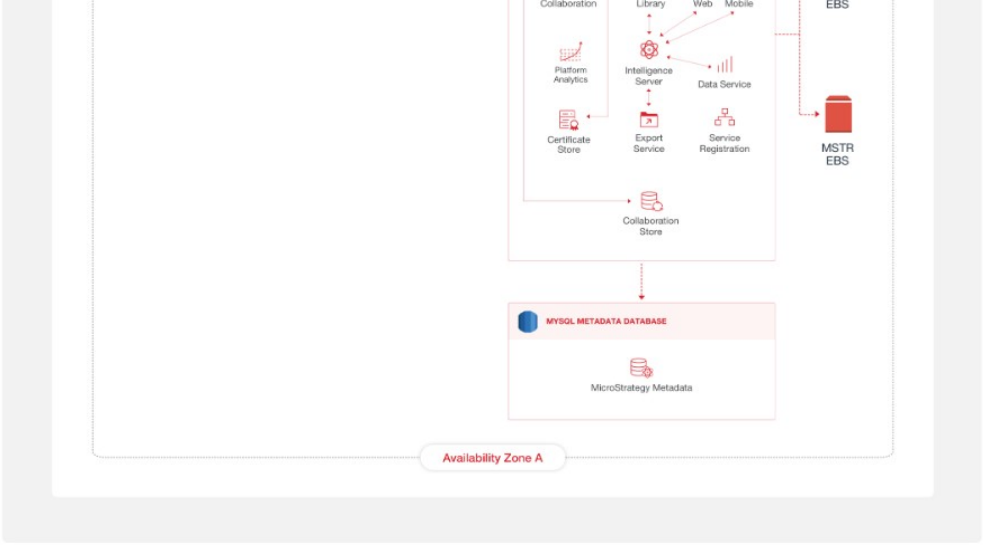
One level of architectural complexity up from Team is the Department Edition. At its core, the Department Edition has the same underlying architecture as Team.

The diagram strongly resembles that of the Team Edition.

Notice that an AWS RDS instance has been added to the architecture. Like the Team Edition, there are still Elastic Load Balancers for the Linux and Windows machines, as well as Security Group communication between the two.

With the addition of the RDS instance, Security Group communication between the Linux, Windows, and RDS instance is enabled. All resources still reside within a single Availability Zone, including the RDS instance.





An important distinction between Team and Department is where the metadata is hosted. On Team environments, the metadata was hosted on the same RHEL 7 machine as the Intelligence Server. On Department environments, the metadata is hosted on AWS fully-managed database service, Relational Database Service (RDS).

Highlights of the Department Edition include:

- MicroStrategy Intelligence Server running on RHEL 7
- MicroStrategy Developer running on Windows Server 2012 (optional)
- MicroStrategy Web
- Web RDP and SSH access to the Linux and Windows Machines
- Metadata hosted on AWS RDS

Enterprise

The MicroStrategy Cloud Platform for AWS Enterprise Edition is designed for customers looking for increased performance and scalability on their MicroStrategy Enterprise Applications by leveraging clustering and failover capabilities.

The Enterprise Edition provides:

- A distributed and redundant system for enterprise-grade and global applications
- A two-, three-, or four-node cluster of MicroStrategy Intelligence Server
- Standalone High Availability metadata database (MySQL RDS)
- The option to include a developer instance for data modeling and administration to increase productivity

Technical Detail

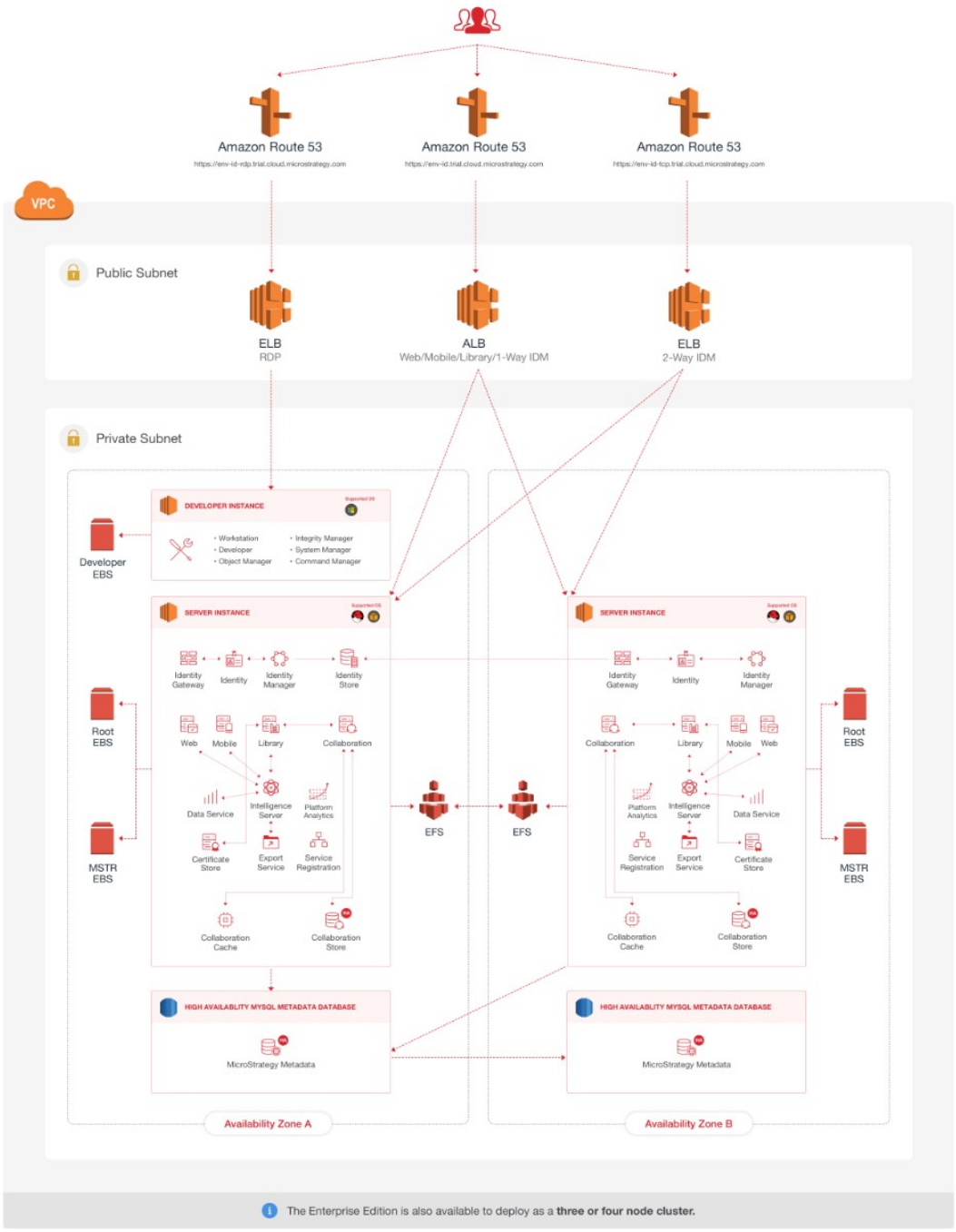
This environment builds off the basic infrastructure introduced in the Team Edition, incorporates the RDS introduced by the Department Edition, and adds High Availability functionality.

Highlights of the Enterprise Edition include:

- Two clustered MicroStrategy Intelligence Server machines running on RHEL 7
    - Machines hosted in separate AWS Availability Zones in your Region
    - Machines with shared memory using AWS Elastic File Service (EFS)
- MicroStrategy Developer running on Windows Server 2012 (optional)
- MicroStrategy Web
- Web RDP and SSH access to the Linux and Windows Machines
- Metadata hosted on AWS RDS
    - RDS hosted in multiple AWS Availability Zones in your Region

The diagram resembles that of the Department architecture, with two very important additions:

- Another Availability Zone
- Another Linux Intelligence Server machine



This architecture still uses a single RDS instance, but it is highly available.

The second Linux Intelligence Server machine resides within the second Availability Zone and is clustered with the first Intelligence Server machine by means of AWS Elastic File Service.

Communication between the Intelligence Server, Developer Machine, and RDS instance remains the same as that of the Department deployment architecture.

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