



# AWS Migration



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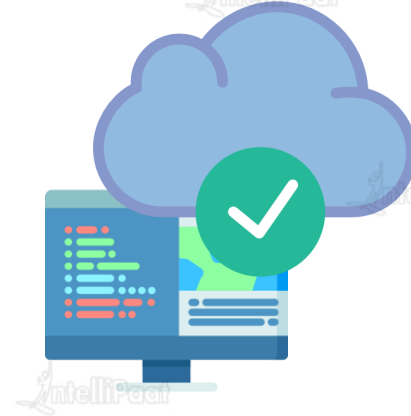
# What is Cloud Migration?



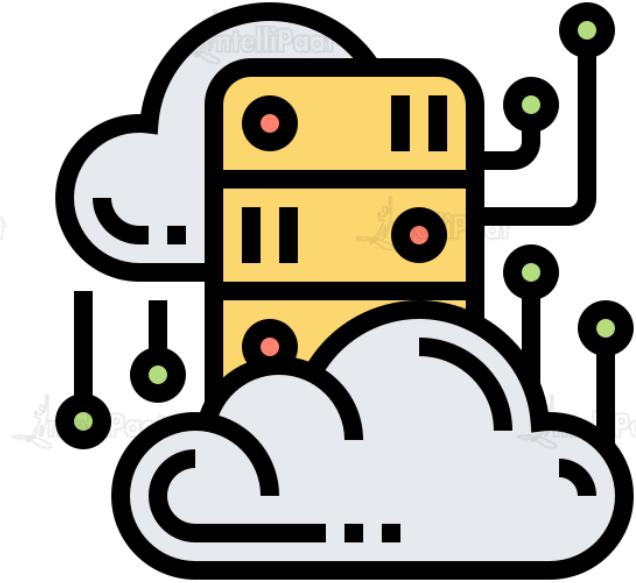
# What is Cloud Migration?



Cloud Migration is the term for moving data, applications, or any local element like a virtual machine to the Cloud Computing environment



# Why Migration is important?



# Why Migration is important?

Business owner wants to expand his business, thinking of a plan



# Why Migration is important?



The business owner found a solution and wants to move his application to the cloud for reducing cost and a global reach



# Why Migration is important?

Now his customers have increase and the profits are increasing every day



Cloud has provided the business better reach and is reducing operational costs which makes it more profitable



# Why Migration is important?



**Reduce operational costs**



**Scale according to the application traffic**



**Faster application implementation**



**Business can have global reach**



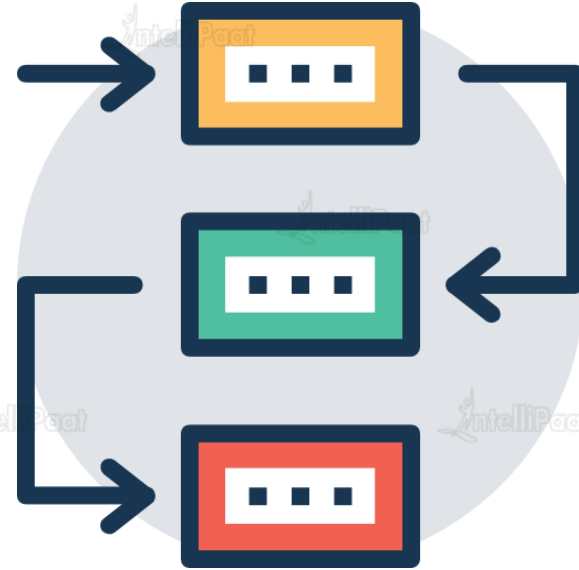
**Better disaster recovery strategies**



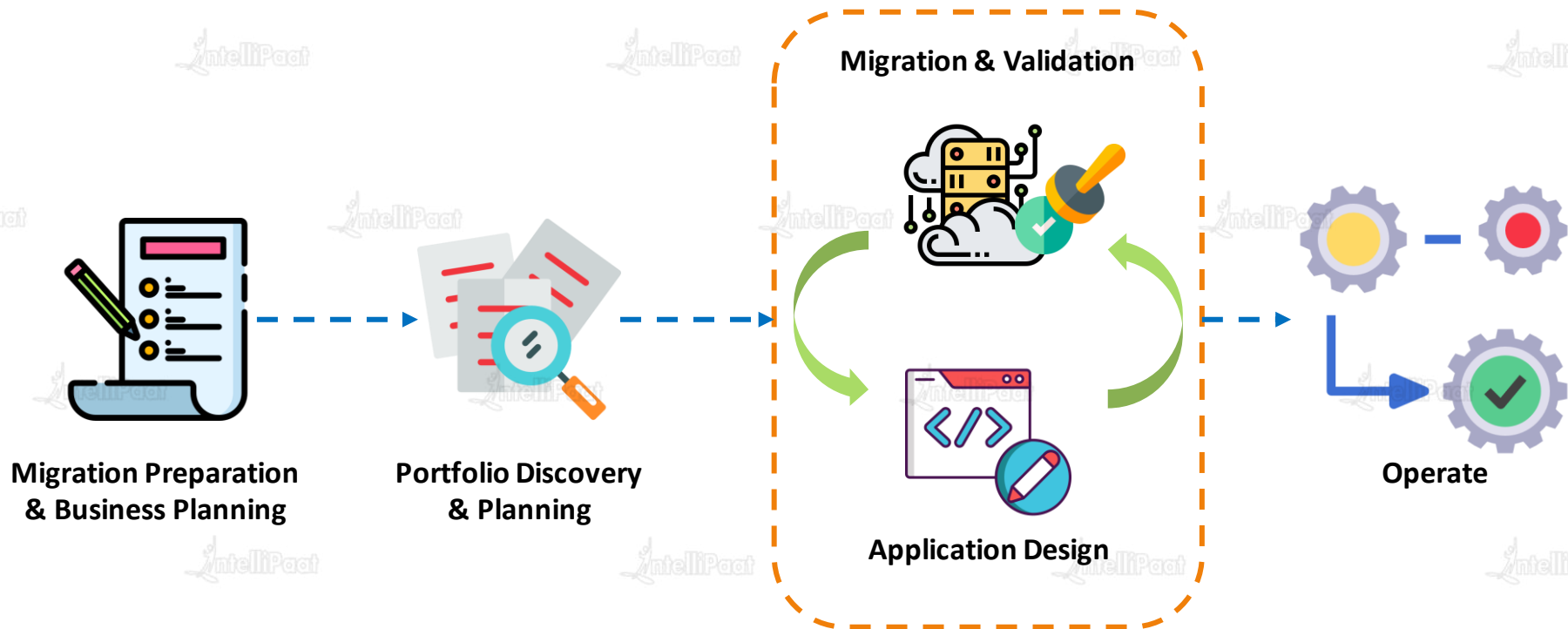
**Better application and data security**



# Migration process in AWS



# Migration process in AWS



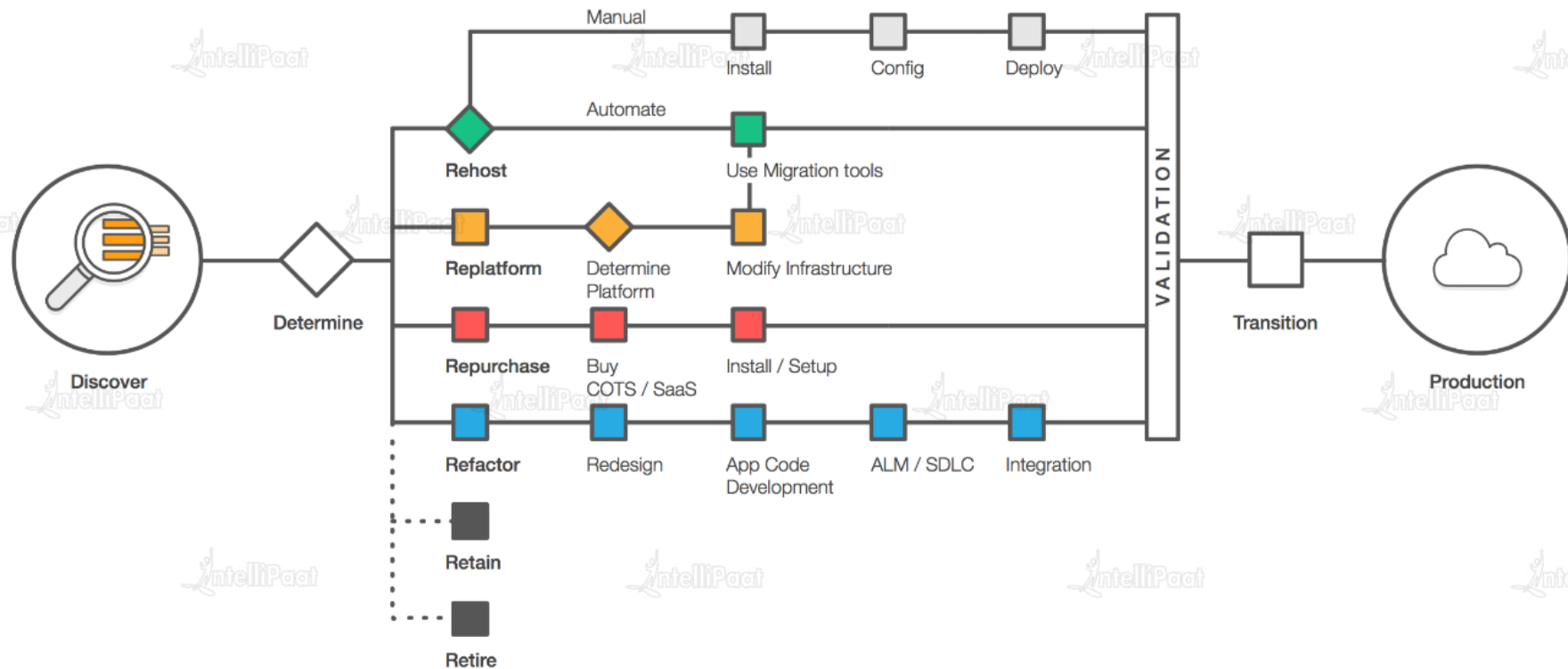
# The 6 R's – Migration Strategies



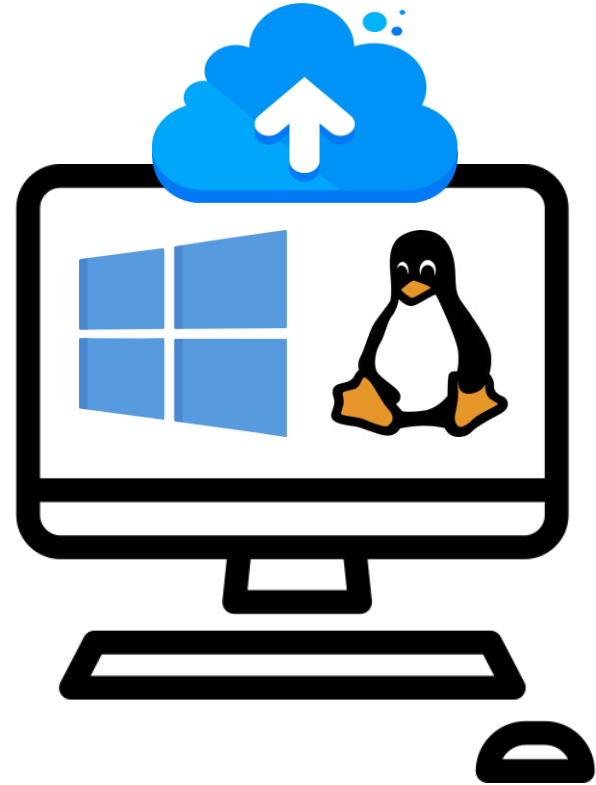
# The 6 R's – Migration Strategies



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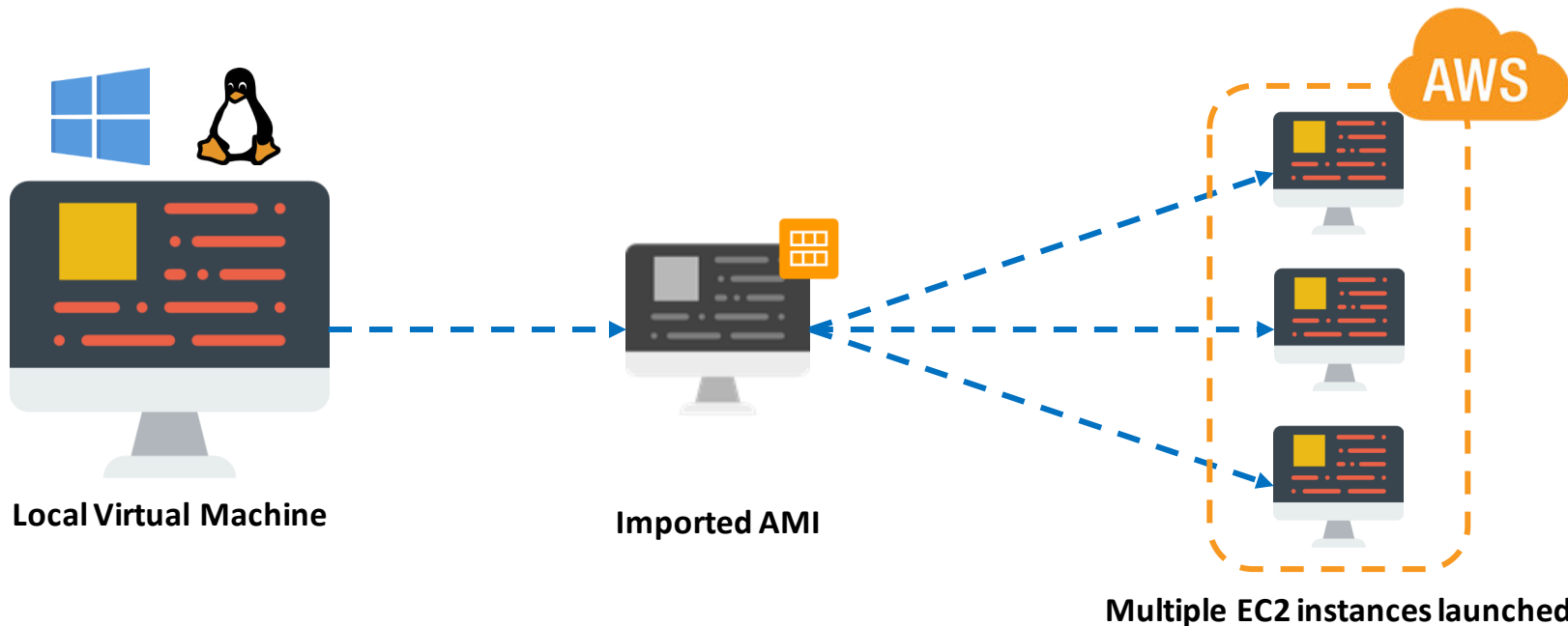


# Virtual Machine Migration



# Virtual Machine Migration

Migrating your local Virtual Machine to Amazon EC2





# Virtual Machine Migration

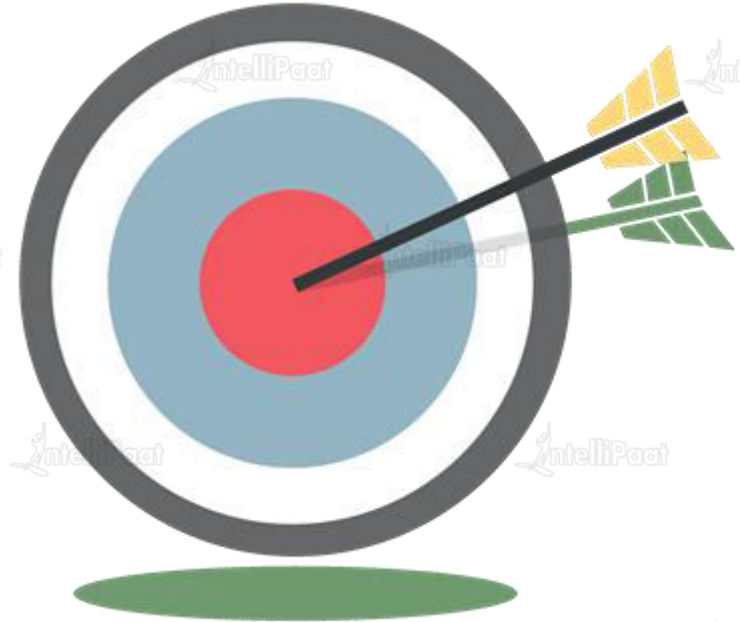


How to migrate?

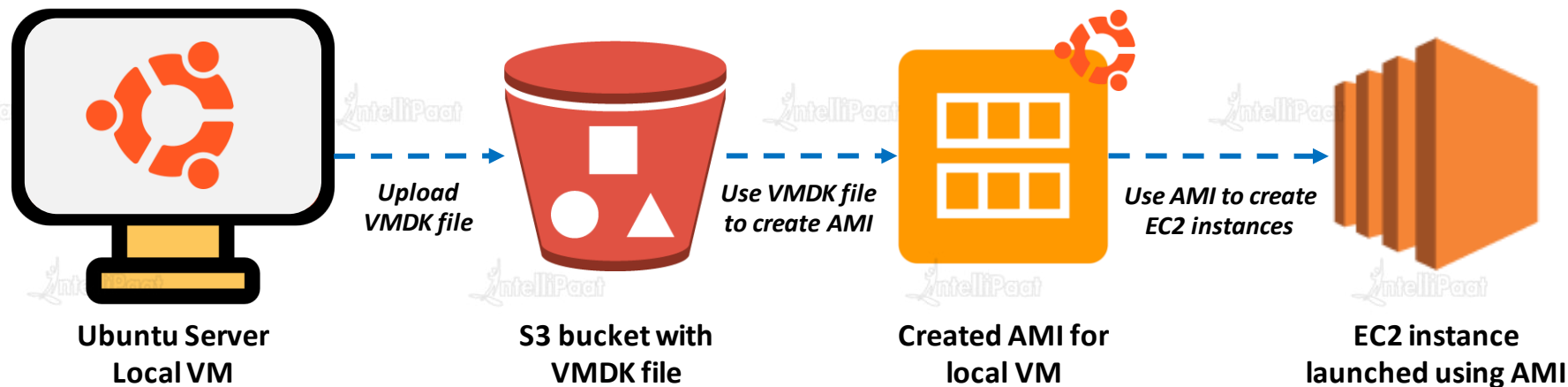
- ✓ Download and Install AWS CLI
- ✓ Export your local VM as a VMDK file and upload it to a S3 bucket
- ✓ Import the VM using commands
- ✓ Monitor your Import task until you see an AMI
- ✓ Launch Virtual Machines with AMI

# DEMO 1:

## Local VM Migration



# Demo 1: Local VM Migration

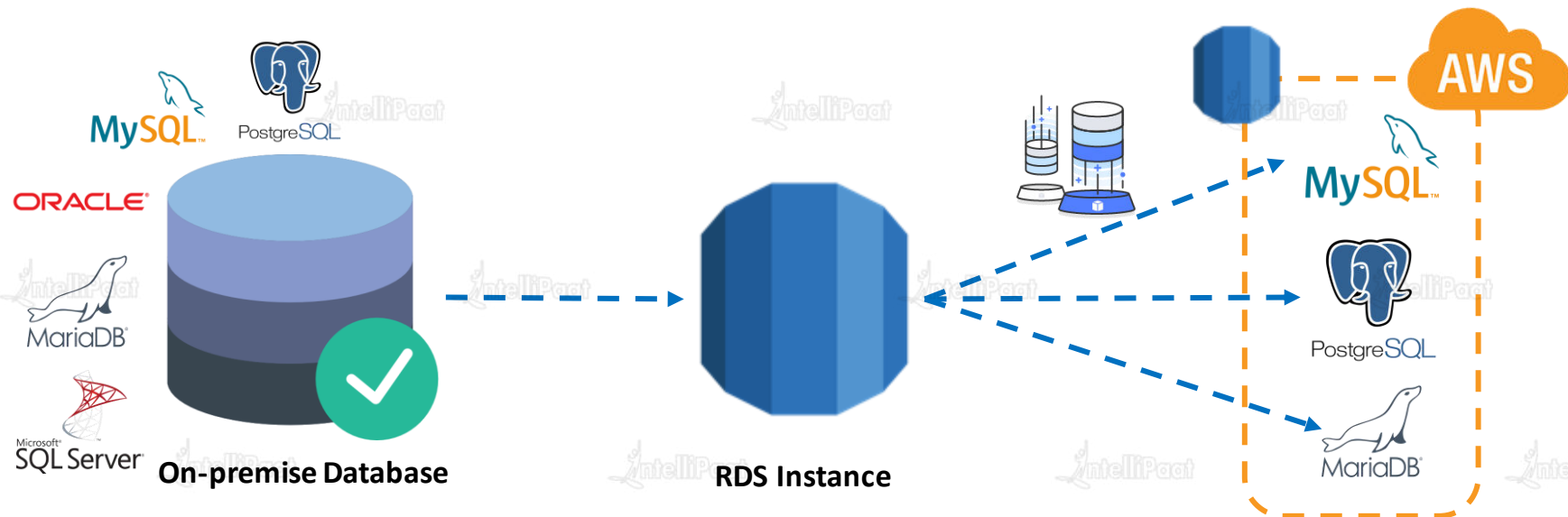


# Database Migration



# Database Migration

Migrating a local database to RDS or migrating one RDS instance to another RDS instance

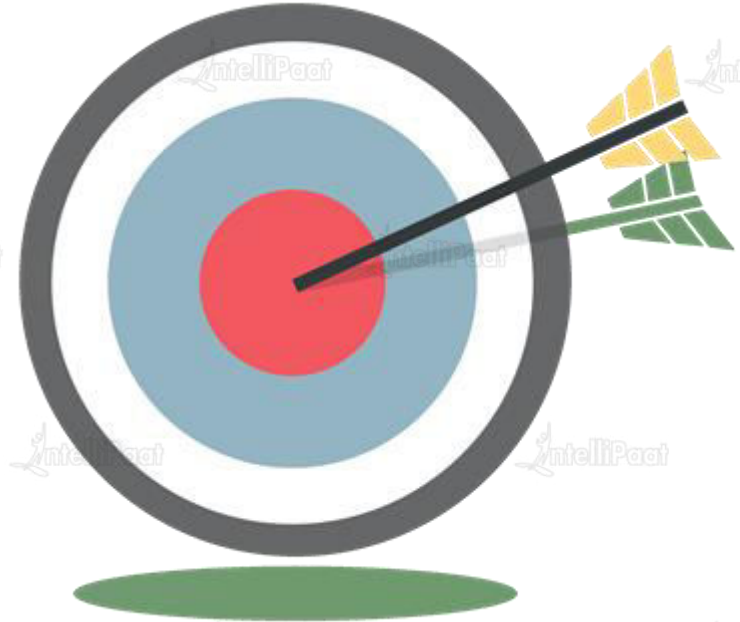


How to migrate?

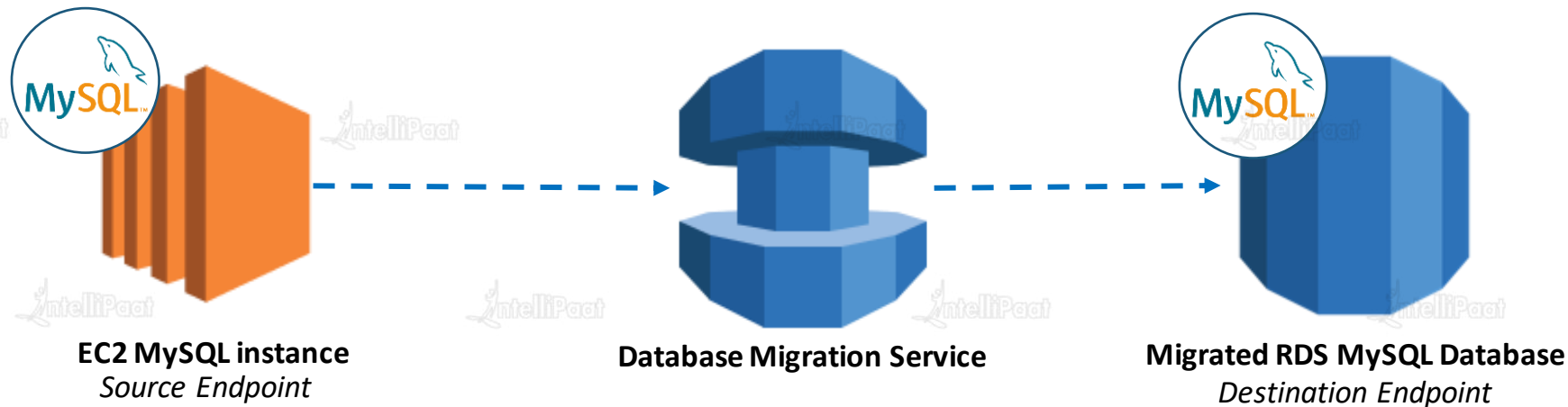
- ✓ Export local Database to a SQL file
- ✓ Create RDS instance and run the SQL file
- ✓ Use Database Migration Service to migrate this RDS instance
- ✓ Create Source RDS and Destination RDS Endpoints
- ✓ Migrate the database using DMS (Different DB Engine)

# DEMO 2:

## Database Migration

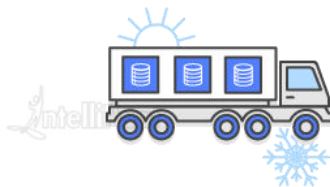


# Demo 2: Database Migration





# Other AWS Migration Services



**Amazon S3 Transfer Acceleration** makes the public internet transfers to S3 buckets faster

Upload speed comparison in the selected region

Virginia

(US-EAST-1)

7% faster

S3 Direct Upload Speed



Upload complete

S3 Accelerated Transfer Upload Speed



Upload complete

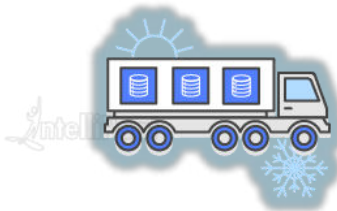
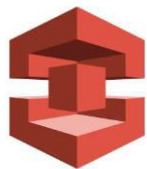
# Other AWS Migration Services



**AWS Snowball** is a secure transfer service for petabytes of data in and out of AWS



# Other AWS Migration Services



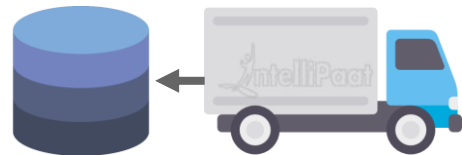
**AWS Snowmobile** is a service for transfer of extremely large amounts of data (exabyte)



**45 foot-long container**



**Connect to database with fibre cable**



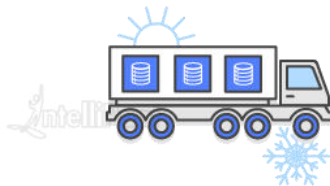
**Fill it with data**



**Transports data to AWS**



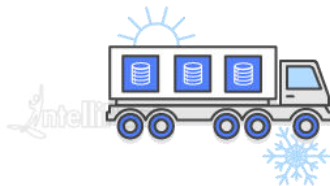
# Other AWS Migration Services



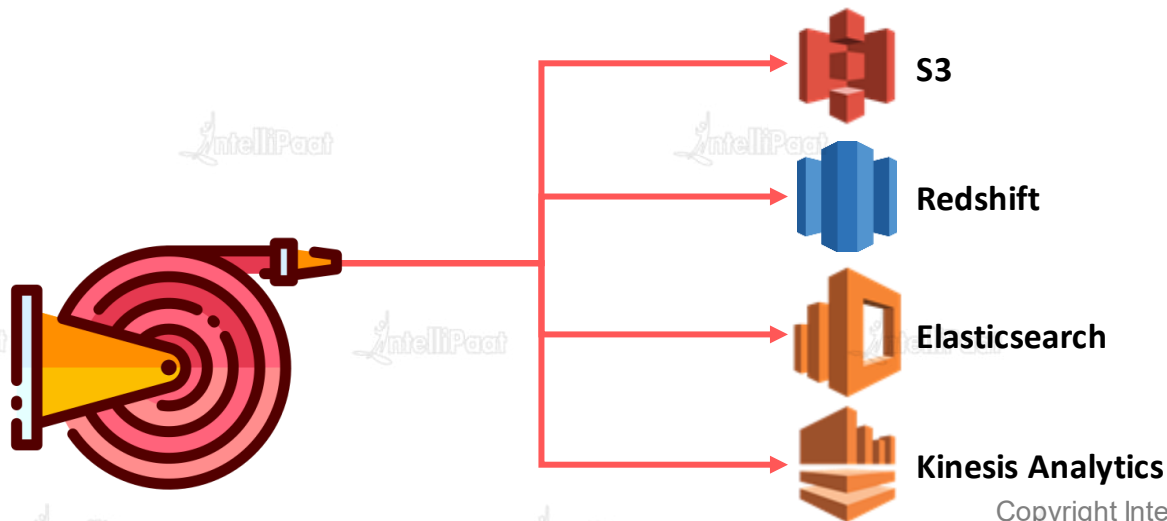
**AWS Direct Connect** allows you to create a dedicated network connection between your premises and AWS



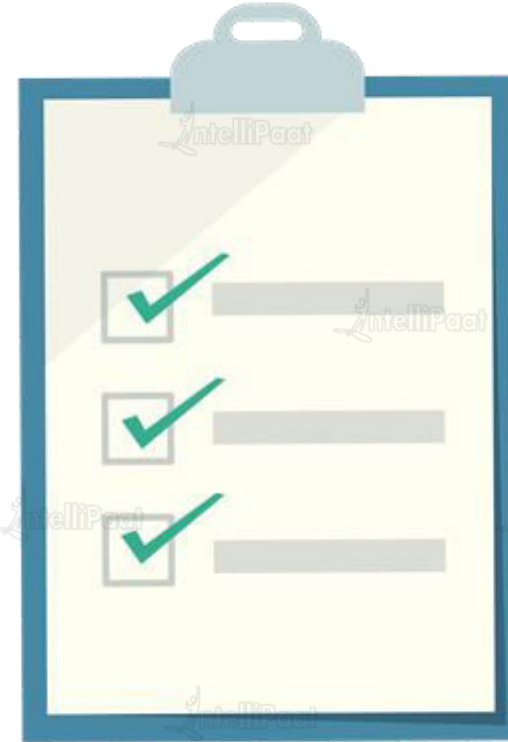
# Other AWS Migration Services



**Amazon Kinesis Firehose** is used to load streaming data into AWS services like S3 or Redshift



# Summary



# Summary



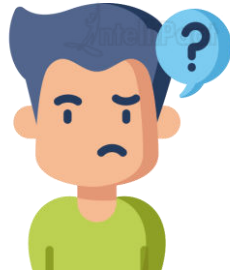
**What is Cloud Migration?**



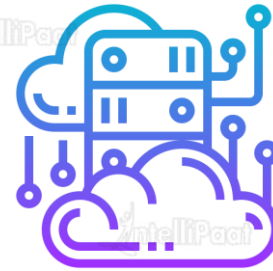
**The 6 R's Migration Strategies**



**Other Migration Services**



**Why Migration?**



**VM and DB Migration**



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