

# AWS Foundation

AWS MIGRATION



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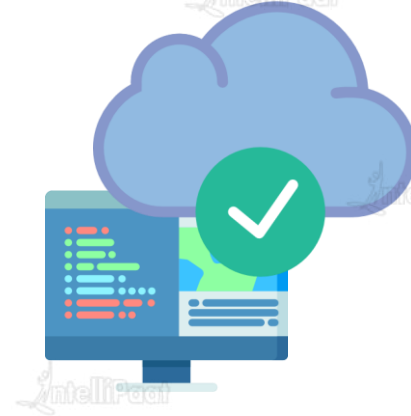
# What is Cloud Migration?



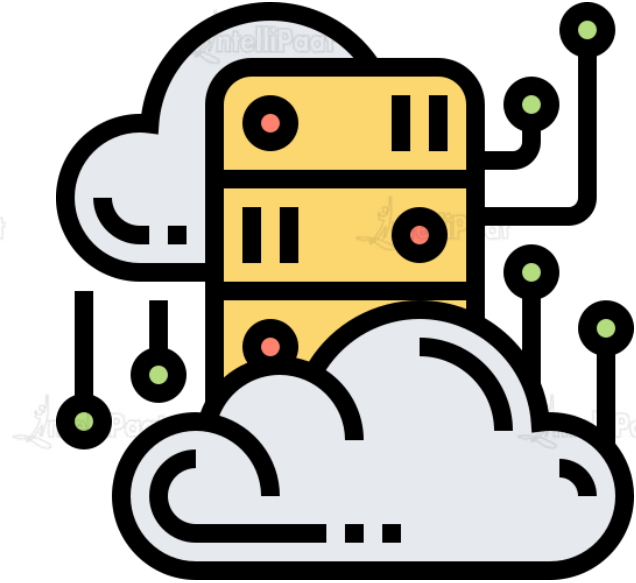
# What is Cloud Migration?



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?



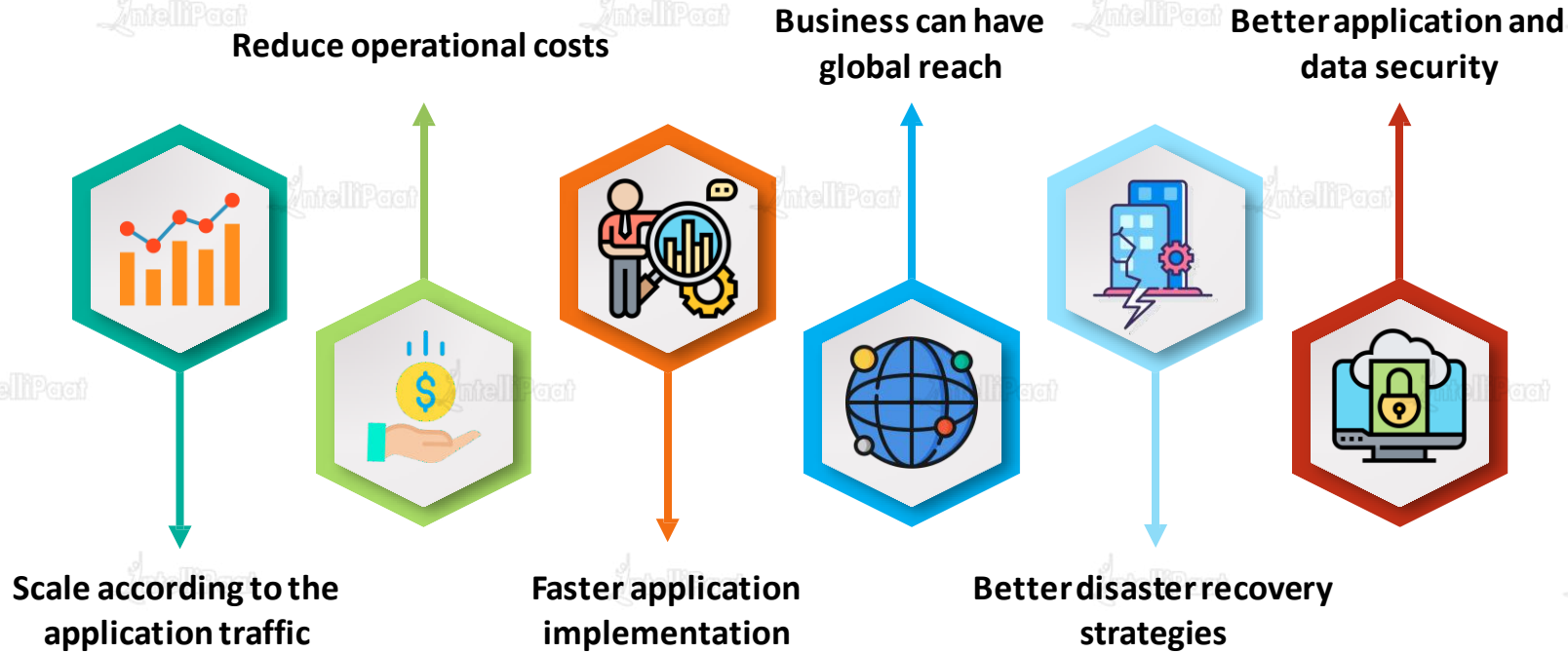
Now his customers have increase and the profits are increasing every day



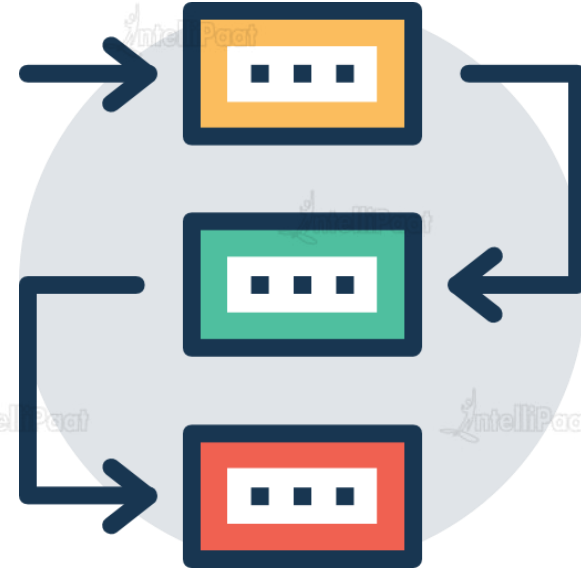
Cloud has provided the business better reach and is reducing operational costs which makes it more profitable



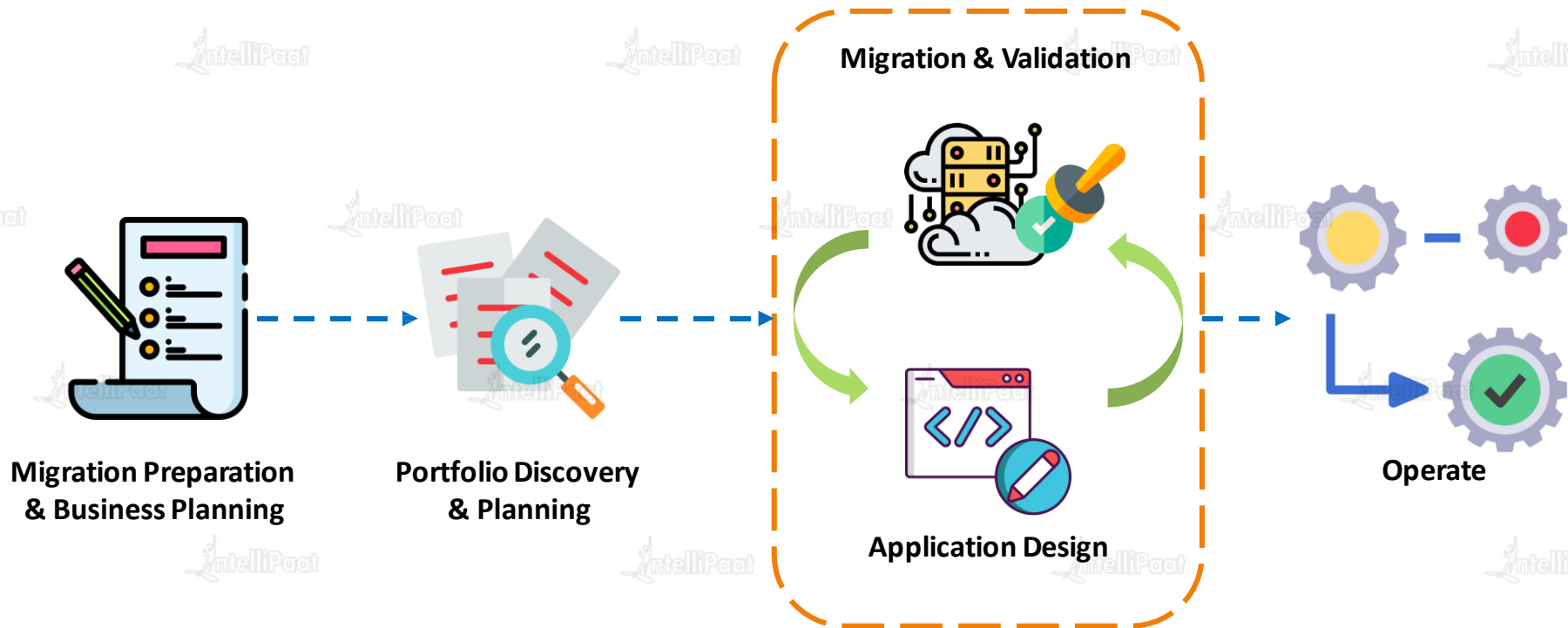
# Why Migration is important?



# Migration process in AWS



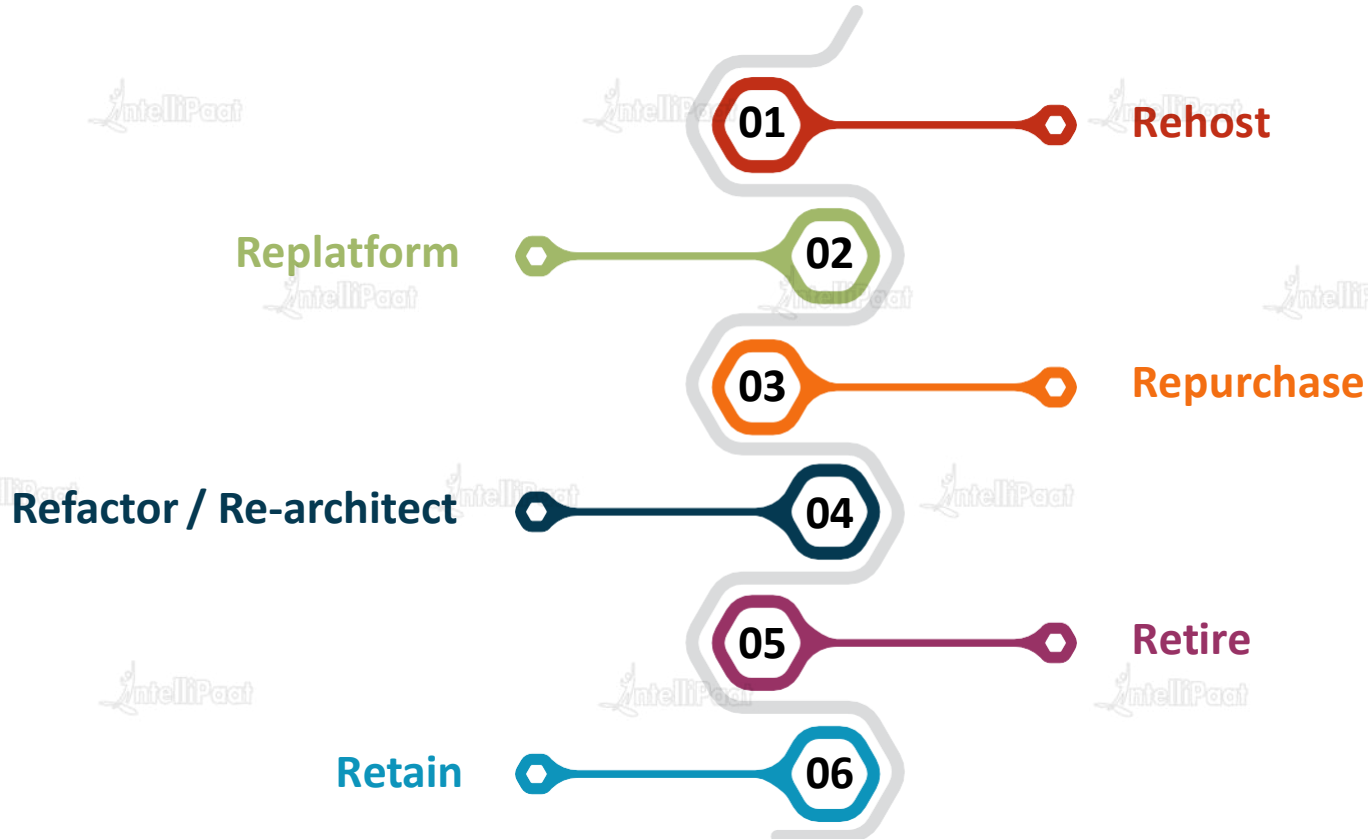
# Migration process in AWS



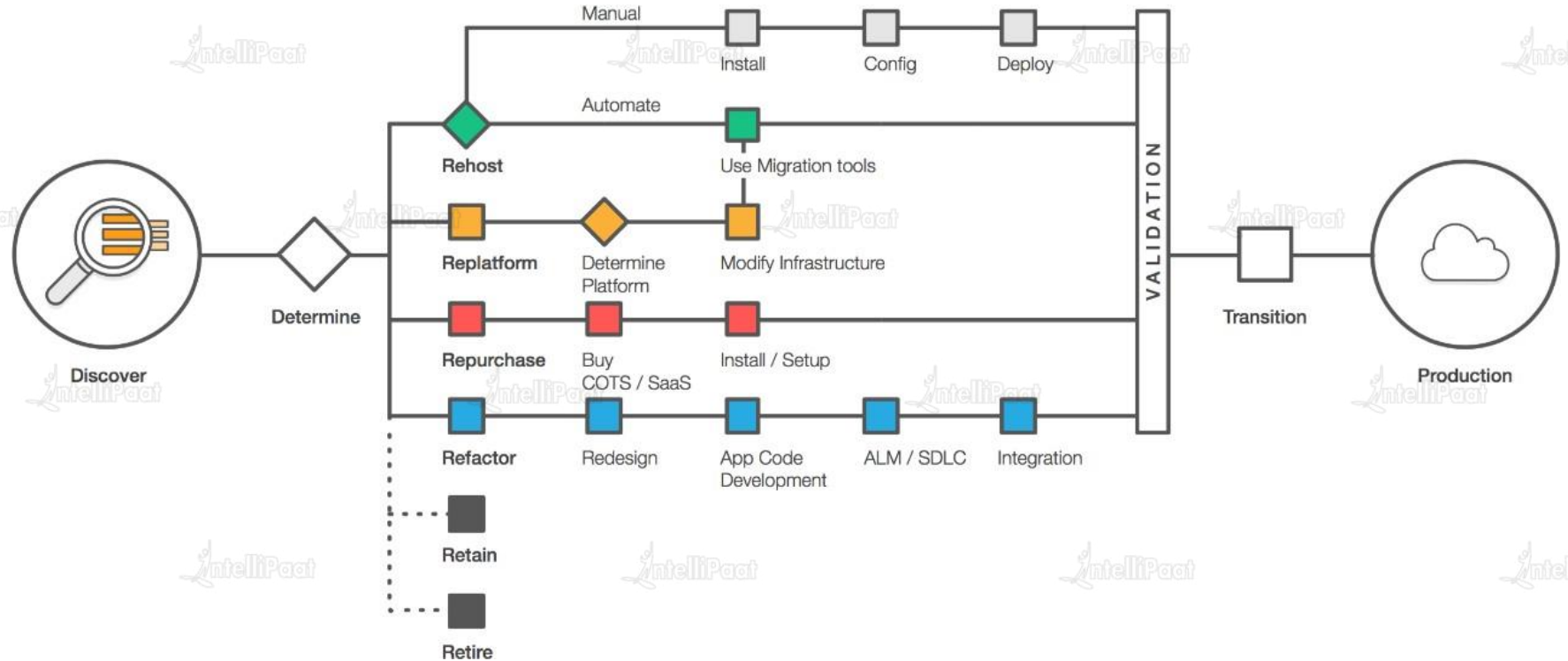
# The 6 R's – Migration Strategies



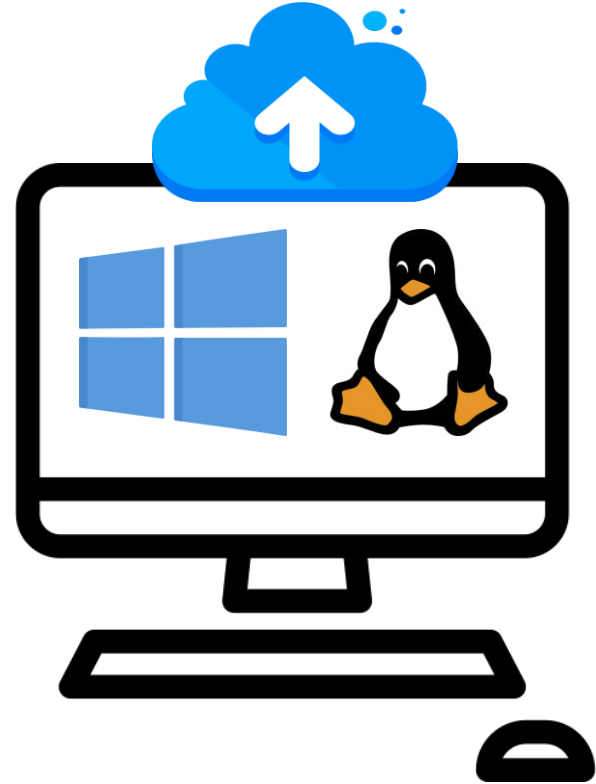
# The 6 R's – Migration Strategies



# The 6 R's – Migration Strategies

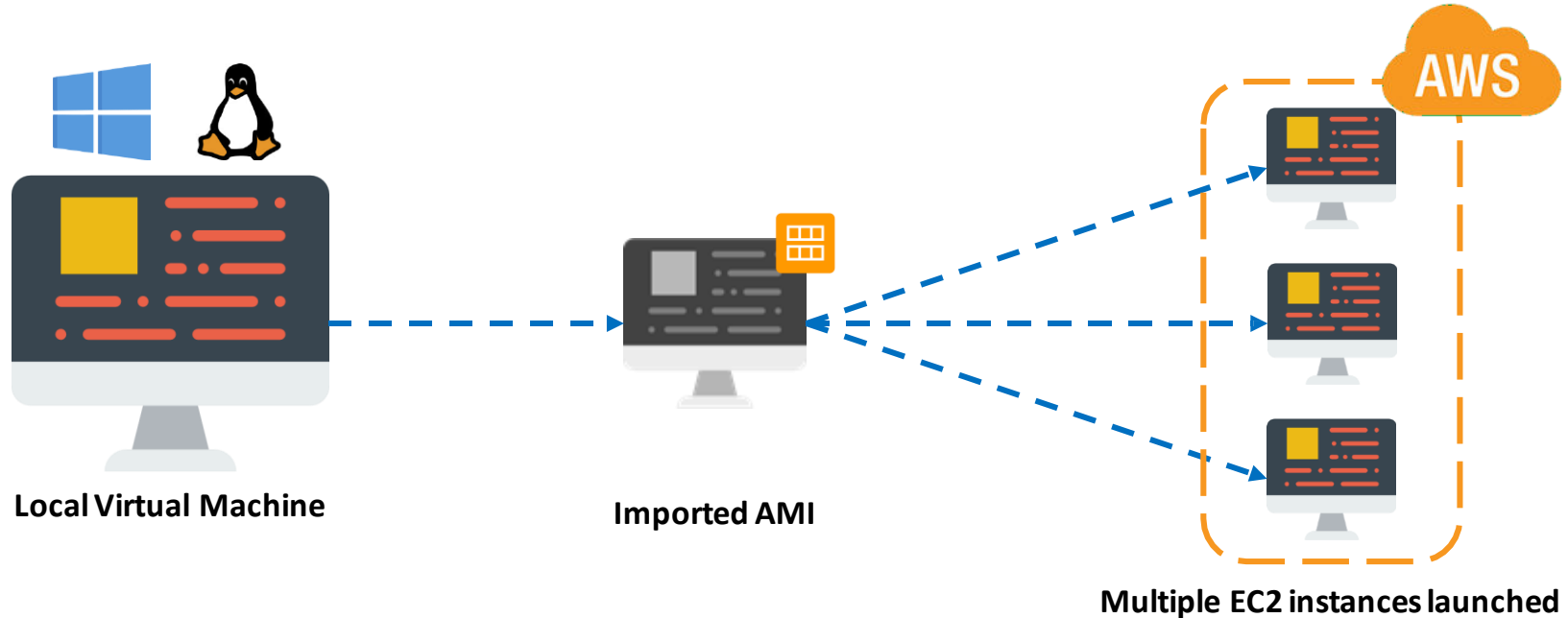


# Virtual Machine Migration



# Virtual Machine Migration

Migrating your local Virtual Machine to Amazon EC2





# Virtual Machine Migration



How to migrate?

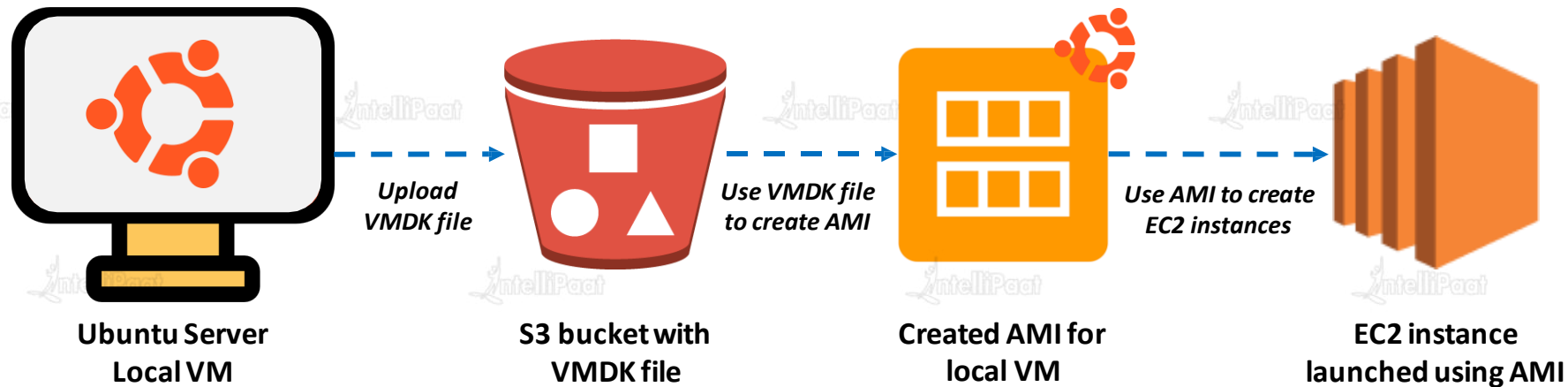
- ✓ Download and Install AWS CLI
- ✓ Export your local VM as a VMDK file and upload it to a S3 bucket
- ✓ Import the VM using commands
- ✓ Monitor your Import task until you see an AMI
- ✓ Launch Virtual Machines with AMI

# DEMO 1:

## Local VM Migration



# Demo 1: Local VM Migration

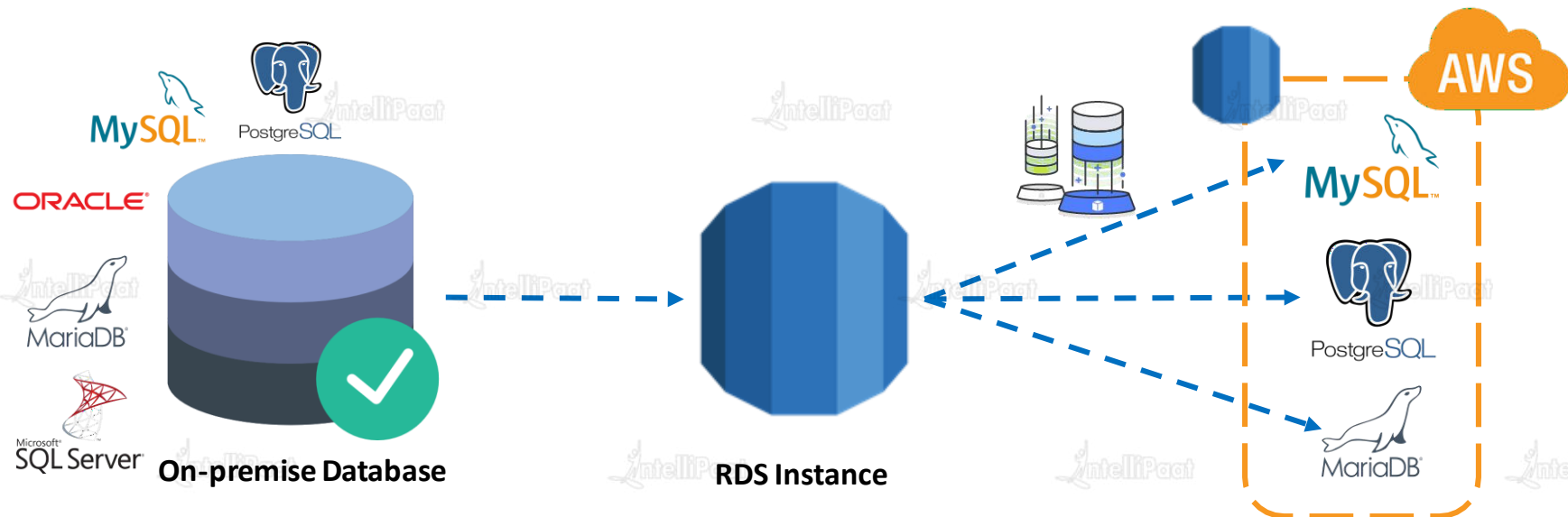


# Database Migration



# Database Migration

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



**Migrating to other RDS instances  
(Different DB Engine)**

## 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

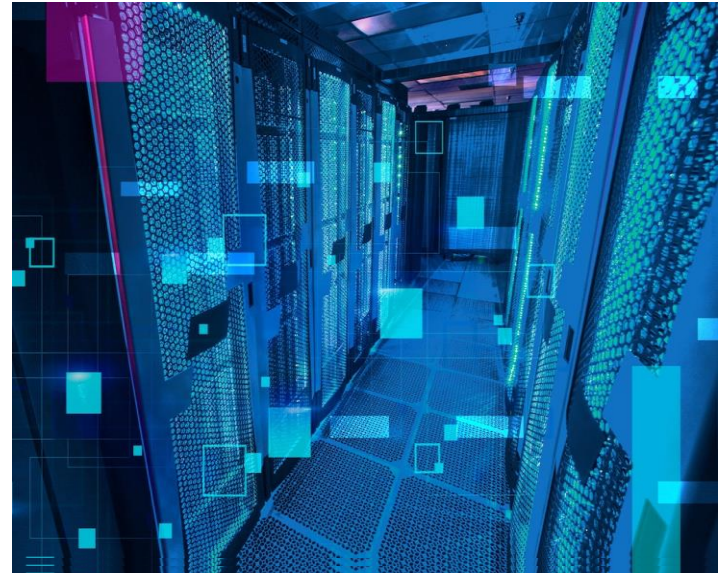


# AWS Transfer Family

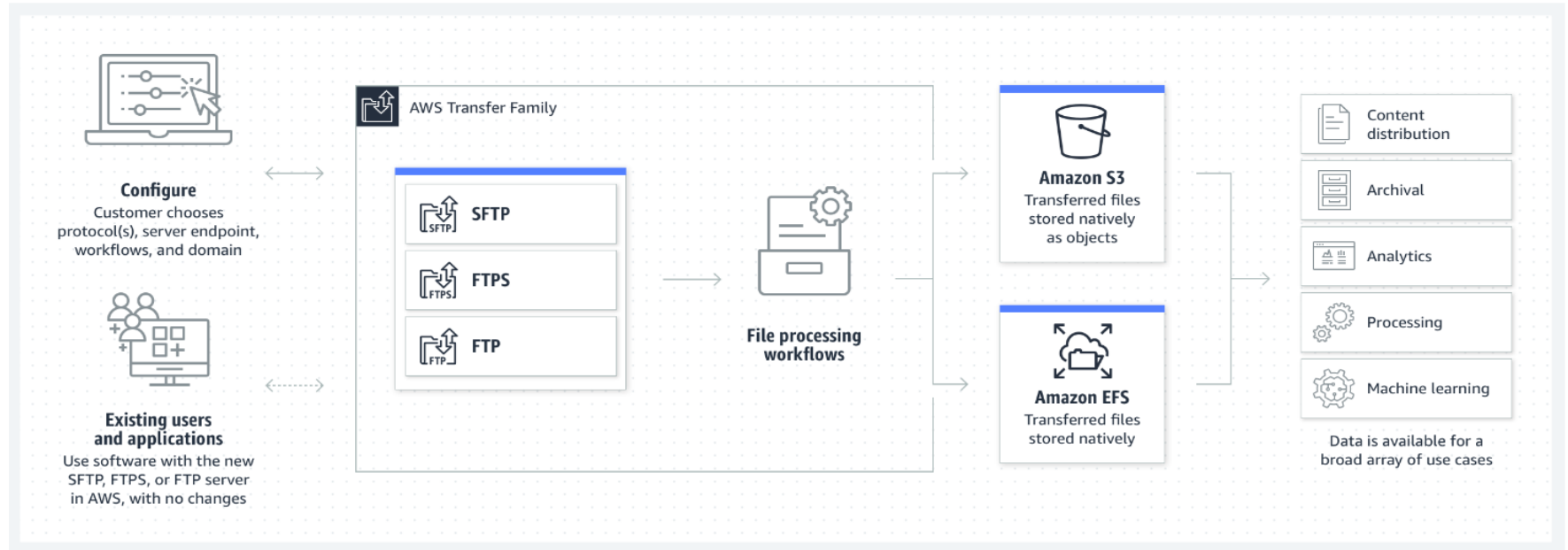


# AWS Transfer Family

AWS Transfer Family is a fully managed AWS service that lets you transfer files to Amazon Simple Storage Service (Amazon S3) storage and Amazon Elastic File System .



## Work Flow





## Use case

- Improve the efficiency of your managed file transfers.
- Grow your data lake to gain insights.
- Increase collaboration among your trading partners.
- Increase the size of your content distribution company.

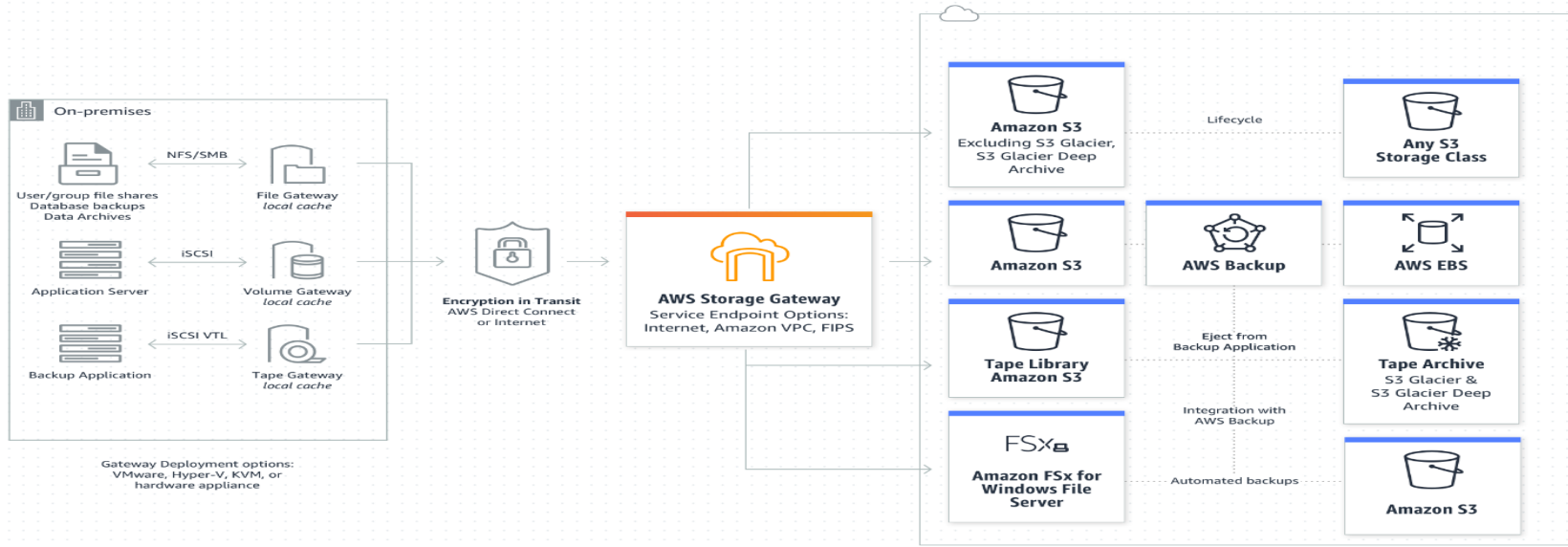
# AWS Transfer Storage Gateway

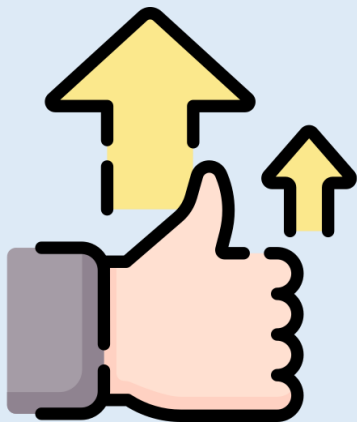
# AWS Storage Gateway

AWS Storage Gateway is a collection of hybrid cloud storage services that enable on-premises access to virtually limitless cloud storage.



## Work Flow

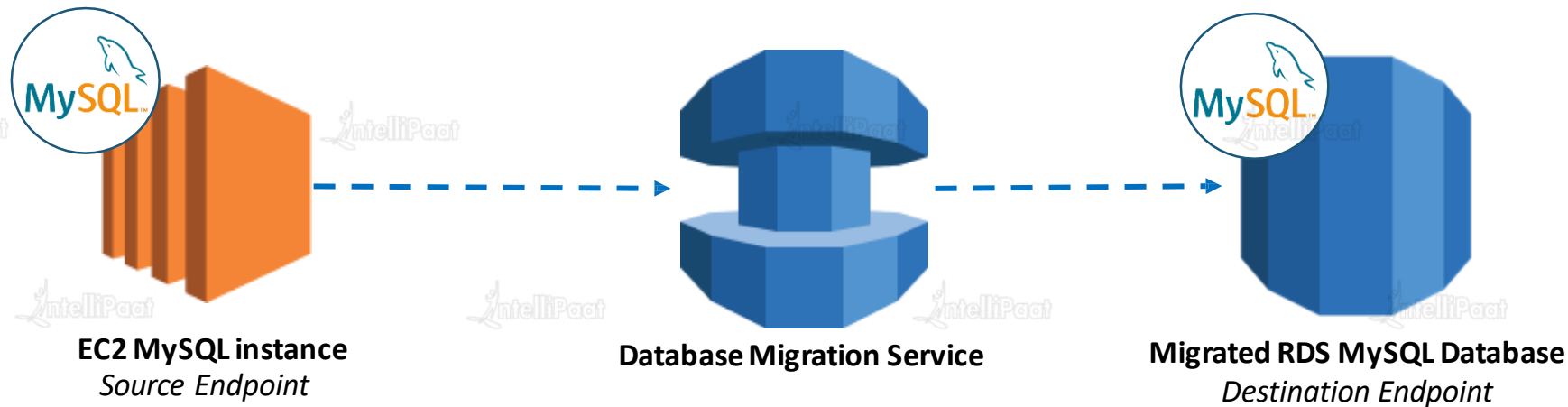




## Use case

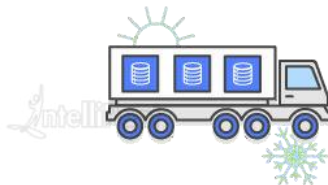
- Fills Your data lake.
- Make interactive file sharing more modern.
- Data backup to the cloud

# Demo 2: Database Migration





# Other AWS Migration Services



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

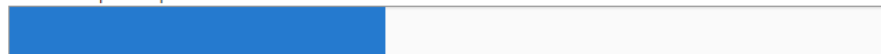
Upload speed comparison in the selected region

Virginia

(US-EAST-1)

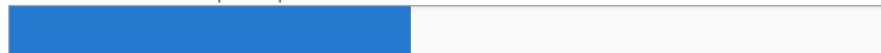
7% faster

S3 Direct Upload Speed



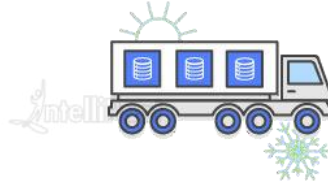
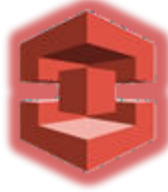
Upload complete

S3 Accelerated Transfer Upload Speed



Upload complete

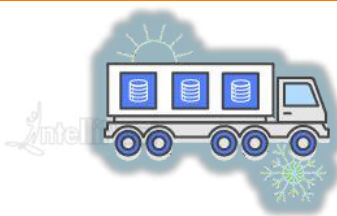
# Other AWS Migration Services



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



# Other AWS Migration Services



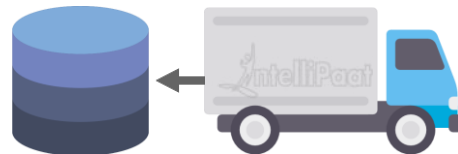
**AWS Snowmobile** is a service for transfer of extremely large amounts of data (exabyte)



**45 foot-long container**



**Connect to database with fibre cable**



**Fill it with data**



**Transports data to AWS**



# Other AWS Migration Services



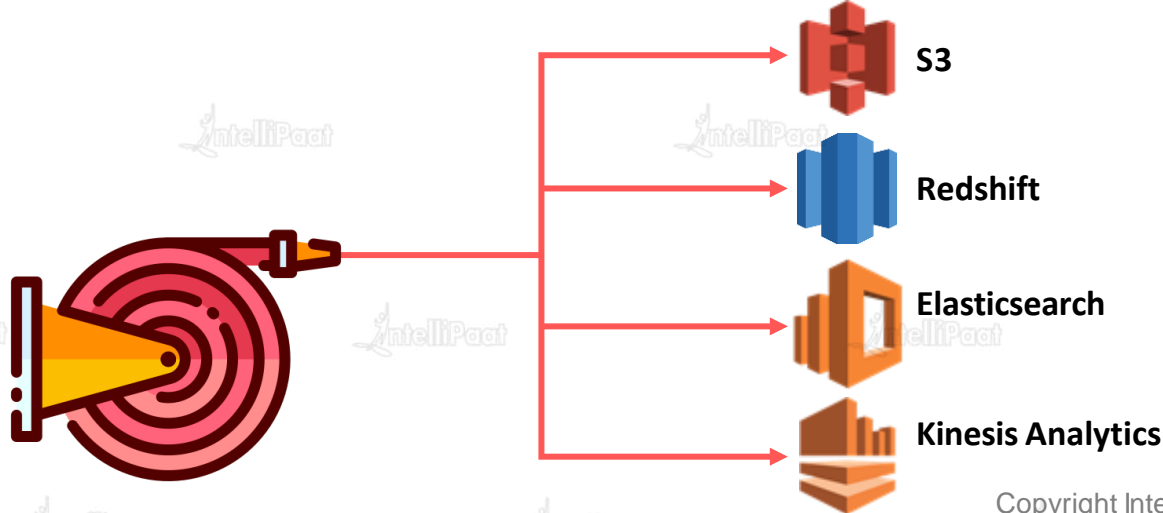
**AWS Direct Connect** allows you to create a dedicated network connection between your premises and AWS



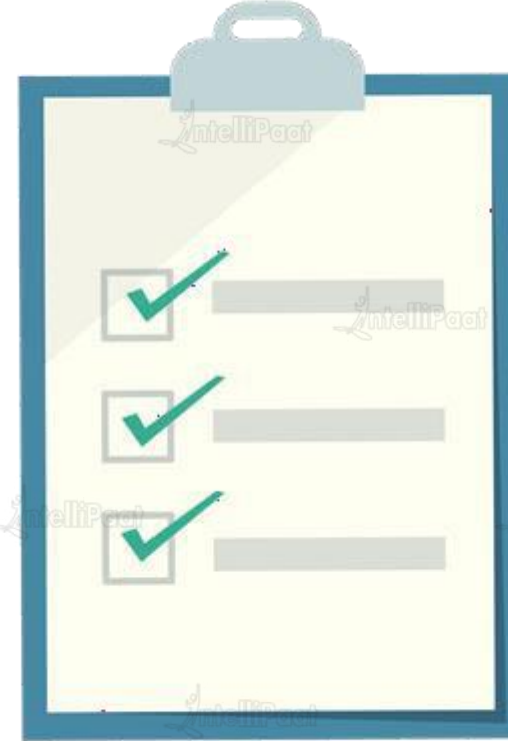
# Other AWS Migration Services



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



# Summary



# Summary



**What is Cloud Migration?**



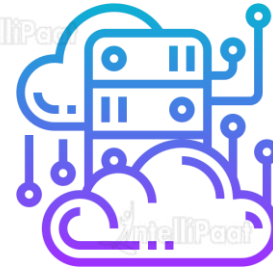
**The 6 R's Migration Strategies**



**Other Migration Services**



**Why Migration?**



**VM and DB Migration**



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