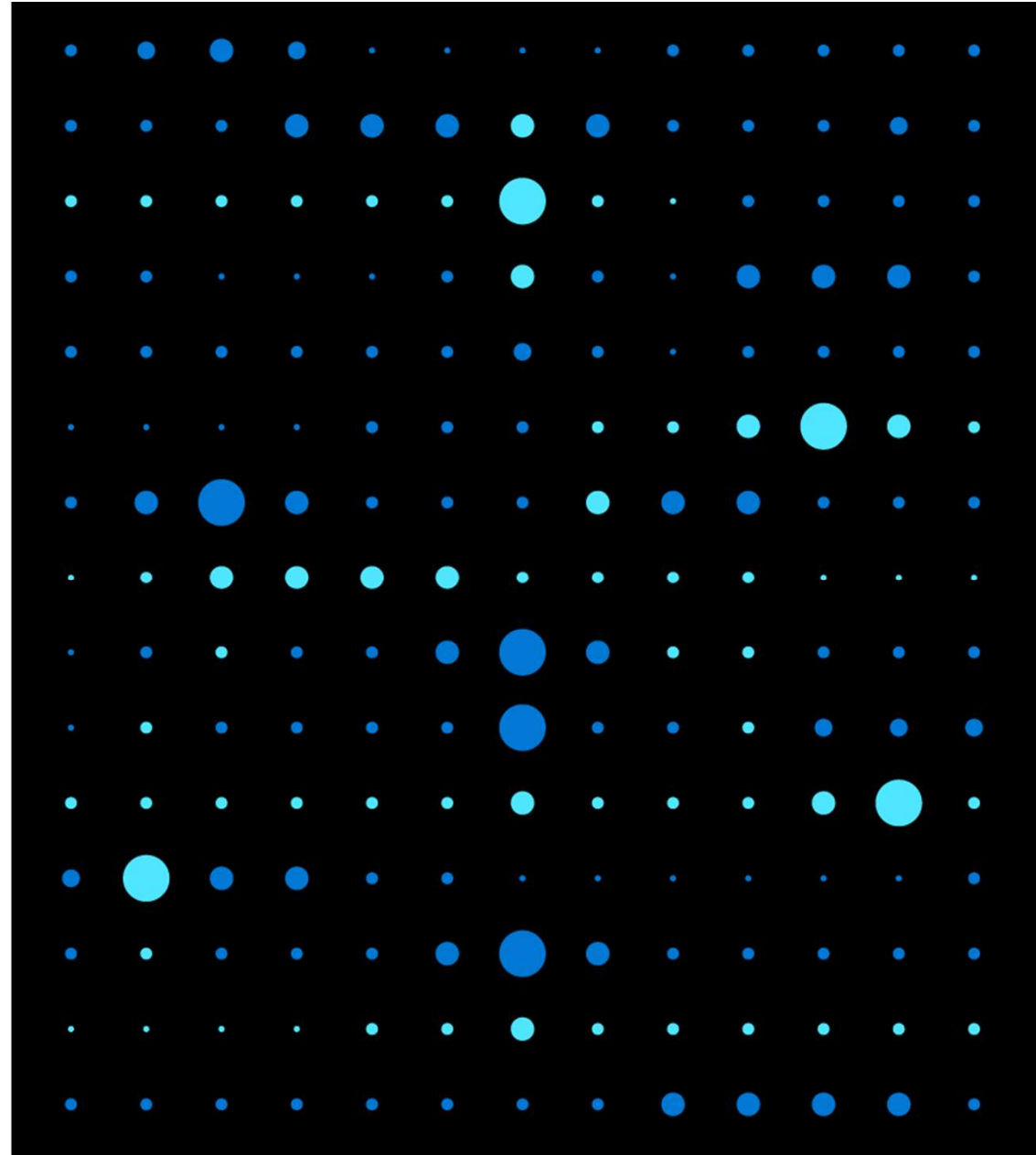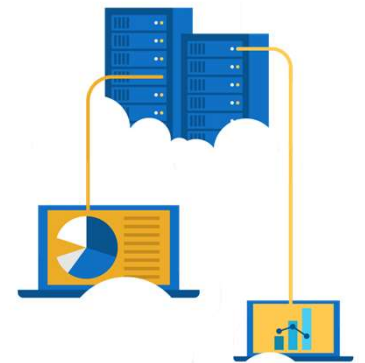# Microsoft Azure Core Services

Atin Gupta

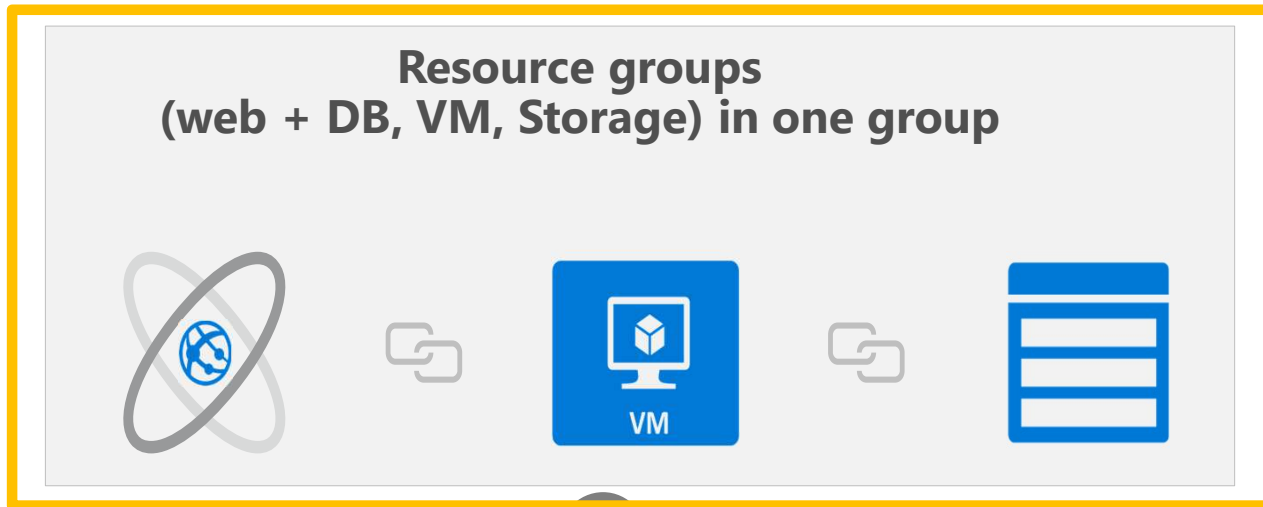# Module: Explore Core Azure architectural components

Examine Regions

- Provides flexibility and scale.

- Preserves data residency.
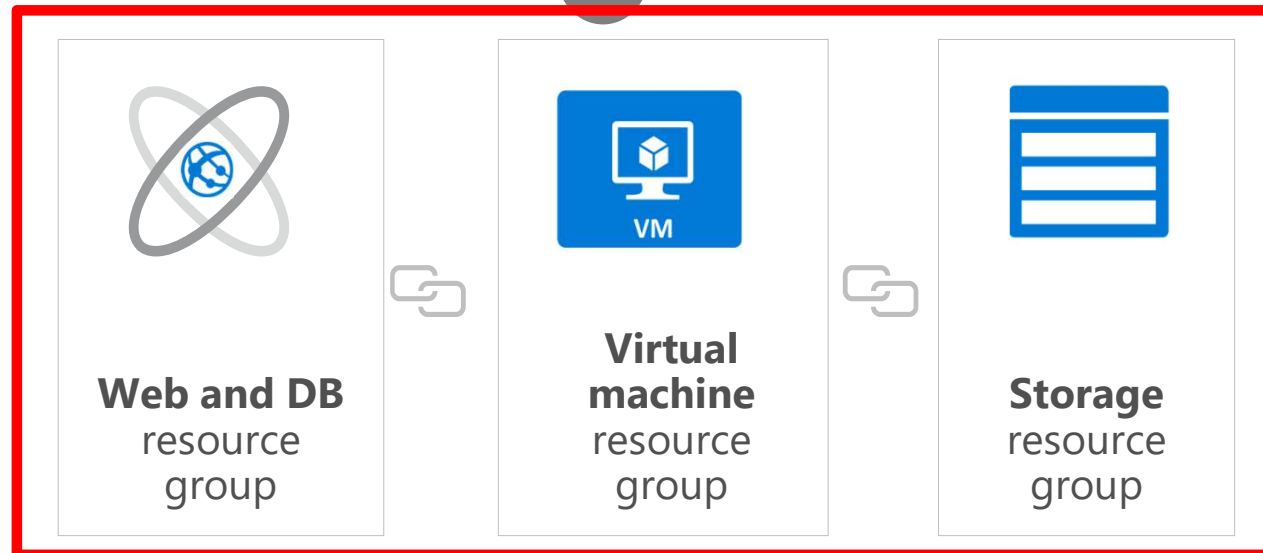
- Select regions close to your users.

Worldwide there are 50+ regions representing 140 countries

Explore Resource groups

**Resource groups
(web + DB, VM, Storage) in one group**

VM

OR

Web and DB
resource
group

**Virtual
machine**
resource
group

Storage
resource
group

VM

Containers for multiple
resources that share the same
life cycle.

Resource

- An item that is part of Azure solution
- Each Azure service enables to deploy different types of resources, such as databases or virtual machines.

Module: Define Core Azure services and products
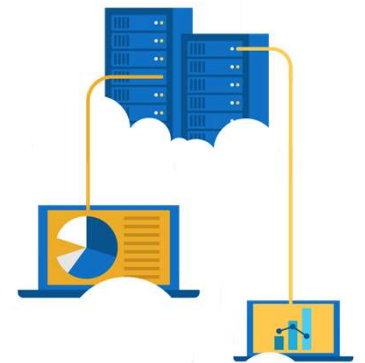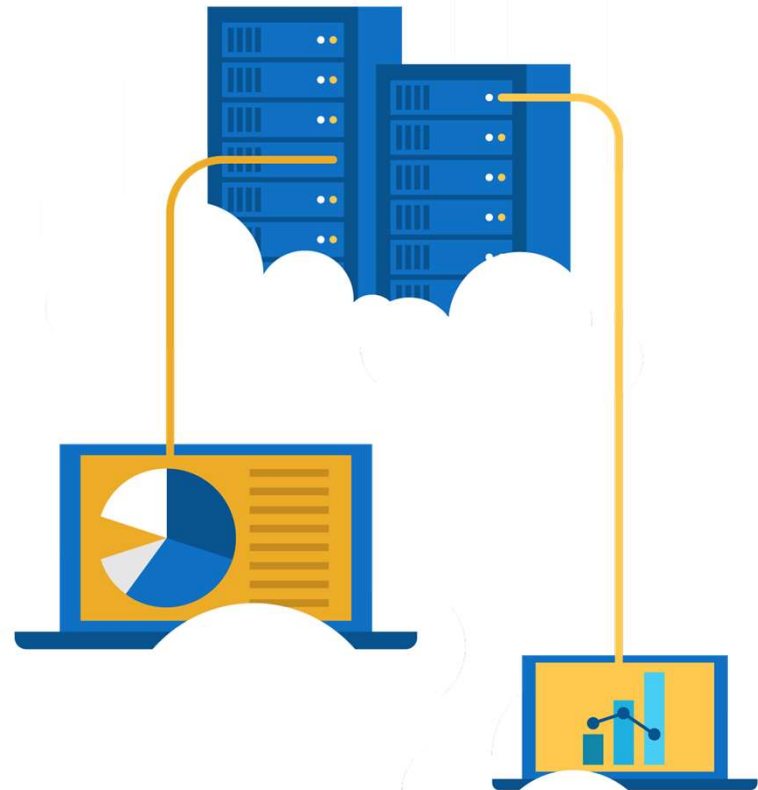
Define Azure compute

- On-demand computing resources such as disks, processors, memory, networking, and operating systems.

- Makes resources available in minutes or seconds.

Walkthrough – Create a Virtual Machine

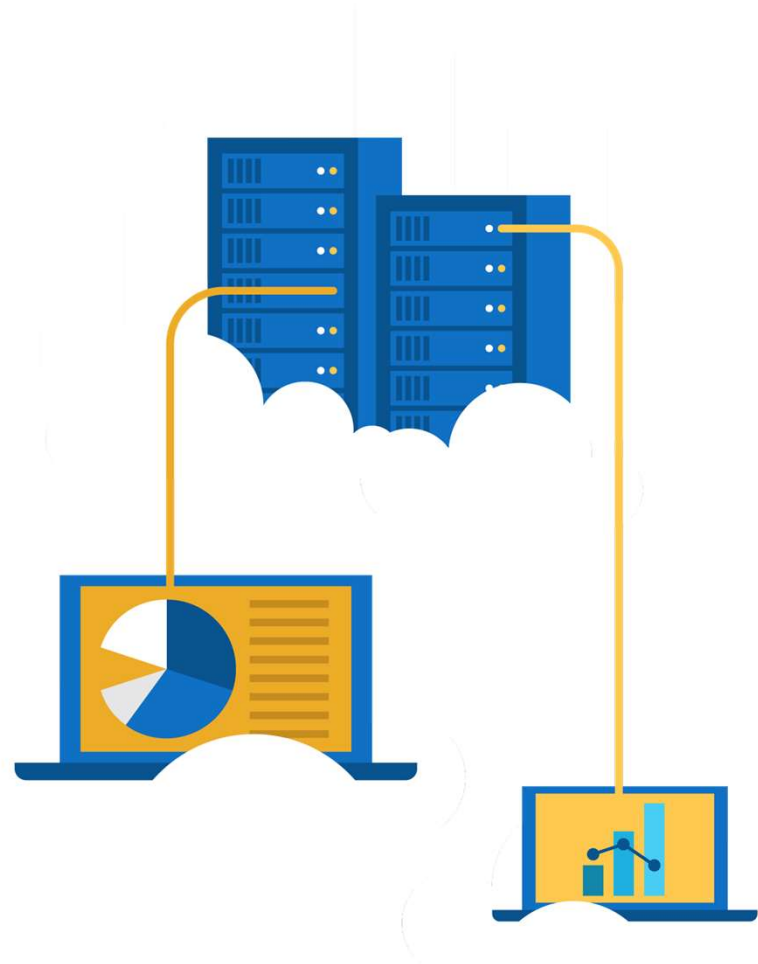Create a virtual machine, connect to the virtual machine

1. Create the virtual machine.
2. Connect to the virtual machine.

Microsoft

Walkthrough – Create a virtual network

Create a virtual network with two virtual machines and then test connection between the machines.
1. Create a virtual network.
2. Create two virtual machines.
3. Test the connection.

Explore Azure storage services

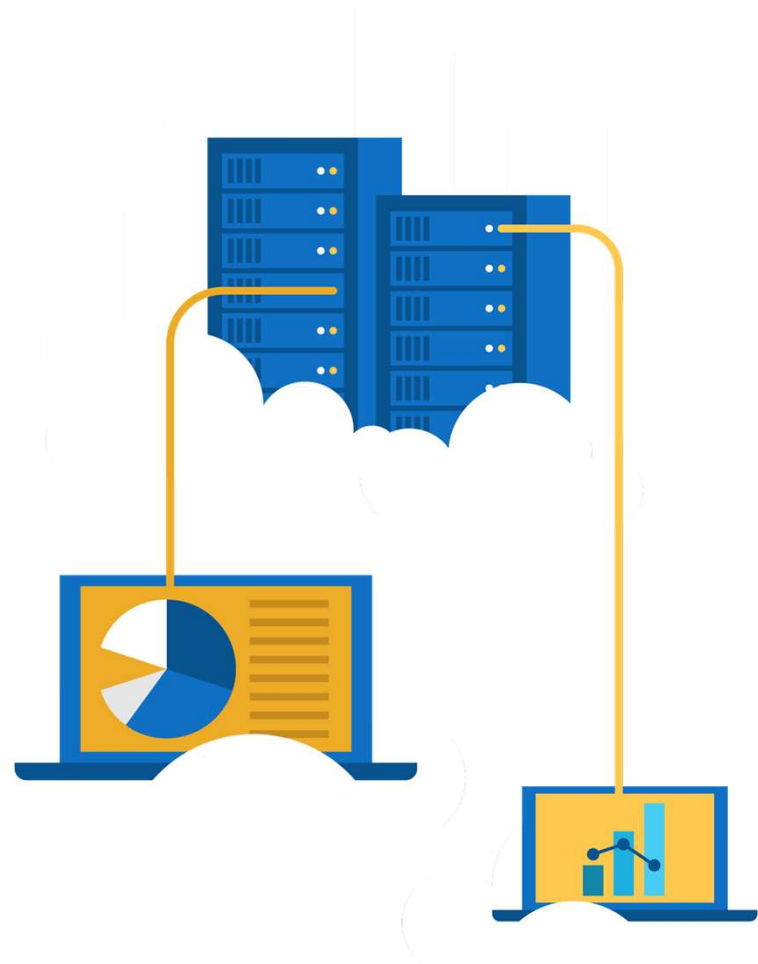| IaaS	PaaS
Disks	**Containers** / **Tables** / **Queues**

Walkthrough – Create Blob storage

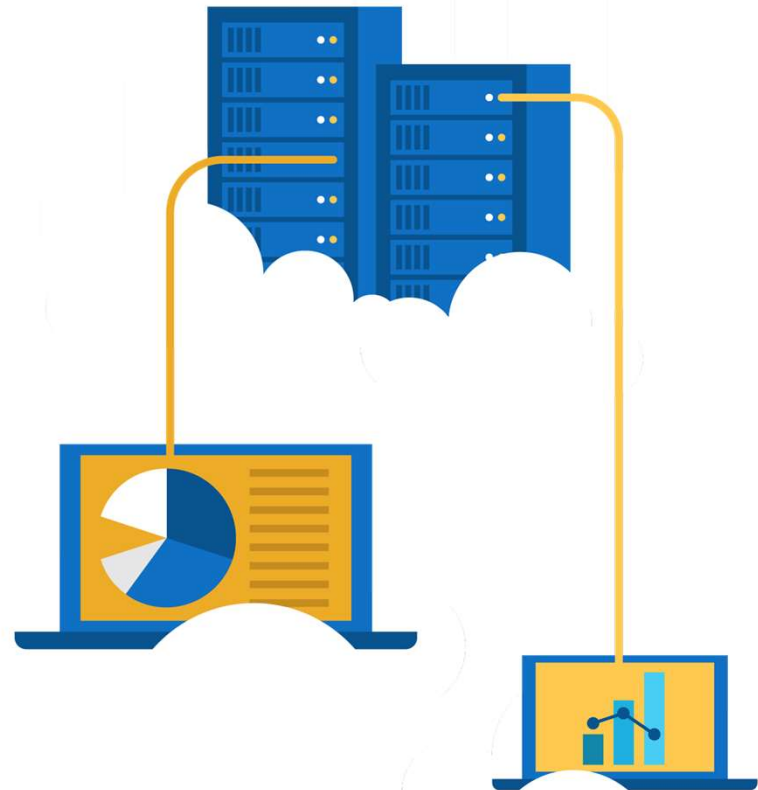Create a storage account with a blob storage container. Work with blob files.

1. Create a storage account.
2. Work with blob storage.

Walkthrough – Create a SQL database

Create a SQL database in Azure and then query the data in that database.
1. Create the database.
2. Query the database.

Thanks