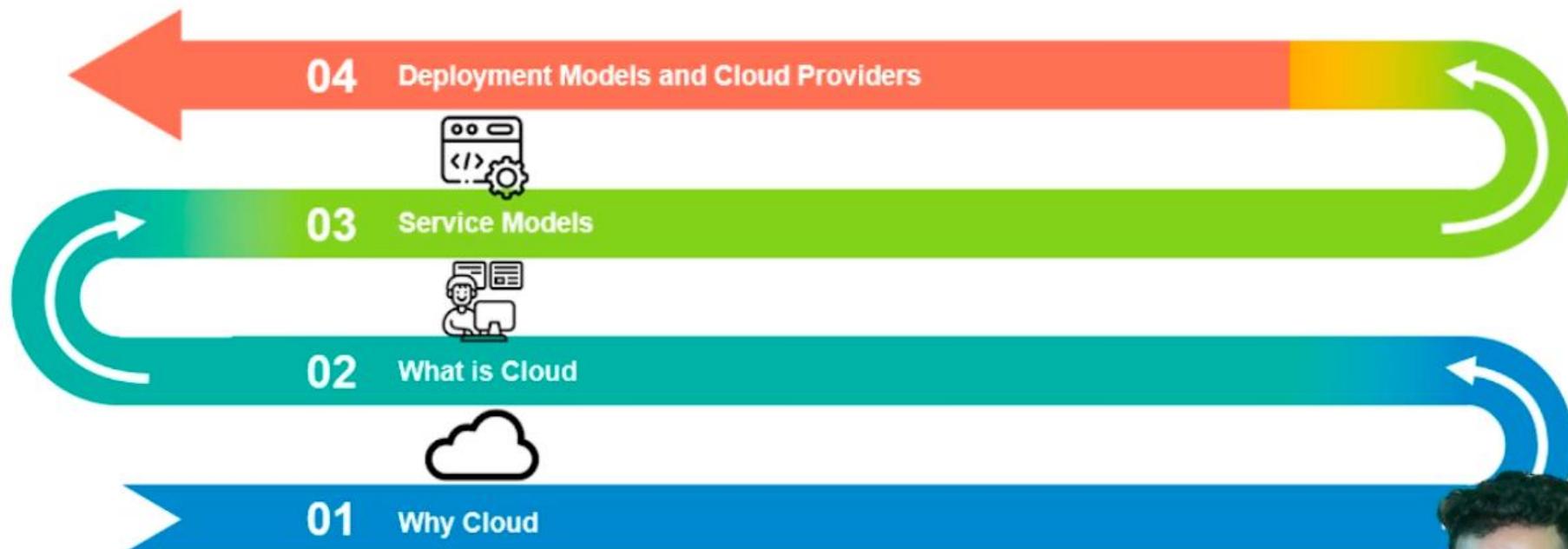


INTRODUCTION TO CLOUD COMPUTING



Importance of Cloud computing



BEFORE CLOUD COMPUTING



Servers



Monitoring Servers



Traffic



DISADVANTAGES

- If you consider costs then this setup is expensive.
- Troubleshooting problems can be tedious and may conflict with your business goals.
- Since the traffic is varying, your servers will be idle most of the time



WHY CLOUD COMPUTING?

- Small as well as large IT companies, follow the traditional methods to provide the IT infrastructure. That means for any IT company needs a Server Room that is the basic need of IT companies.



WHY CLOUD COMPUTING?

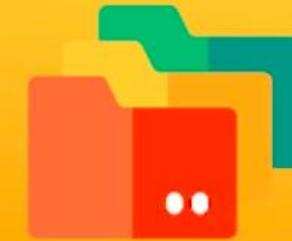
- In that server room, there should be a database server, mail server, networking, firewalls, routers, modem, switches, QPS (Query Per Second means how much queries or load will be handled by the server), configurable system, high net speed, and the maintenance engineers.



WHY CLOUD COMPUTING?

- To establish such IT infrastructure, we need to spend lots of money. To overcome all these problems and to reduce the IT infrastructure cost, Cloud Computing comes into existence.





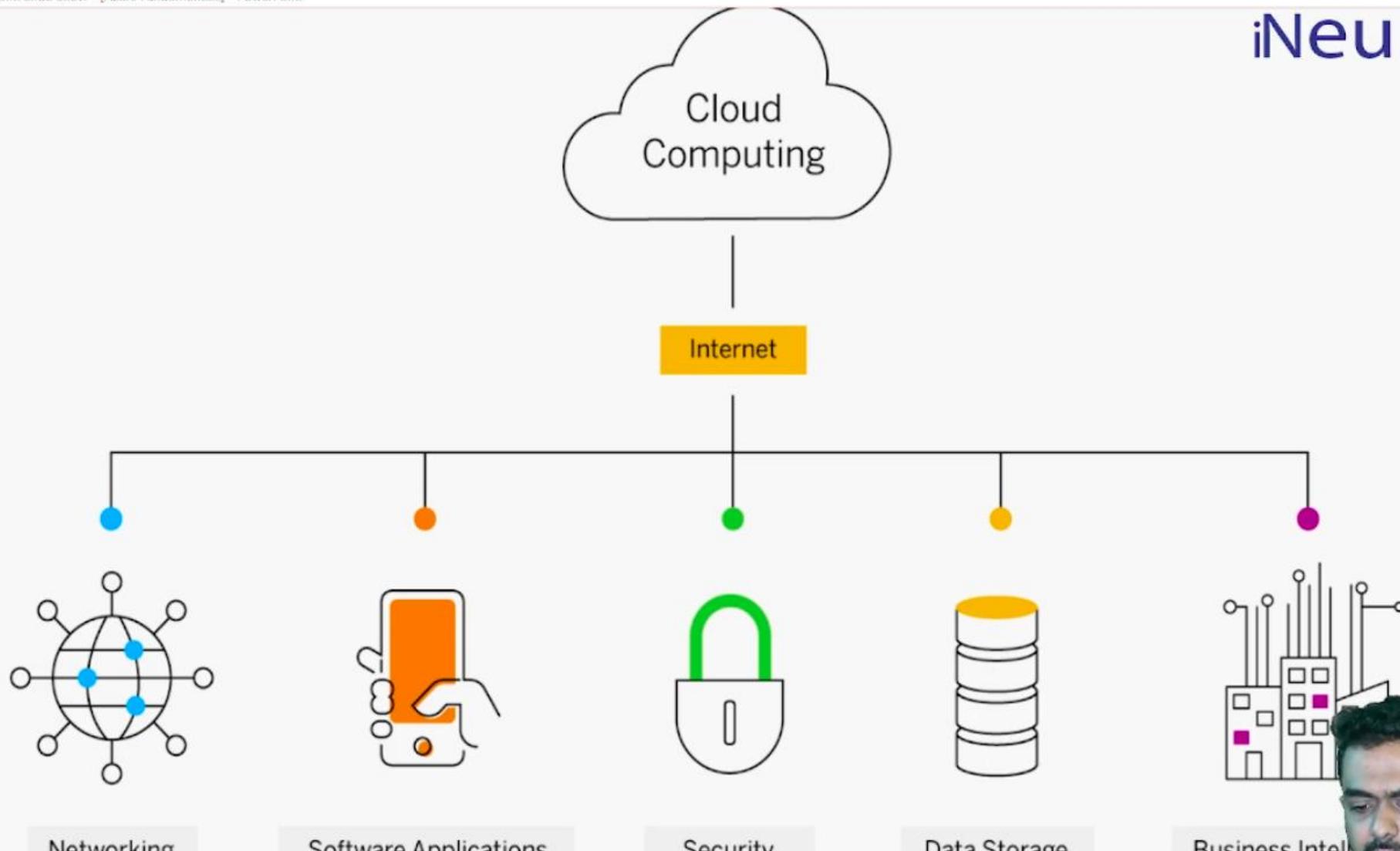
WHAT IS CLOUD?

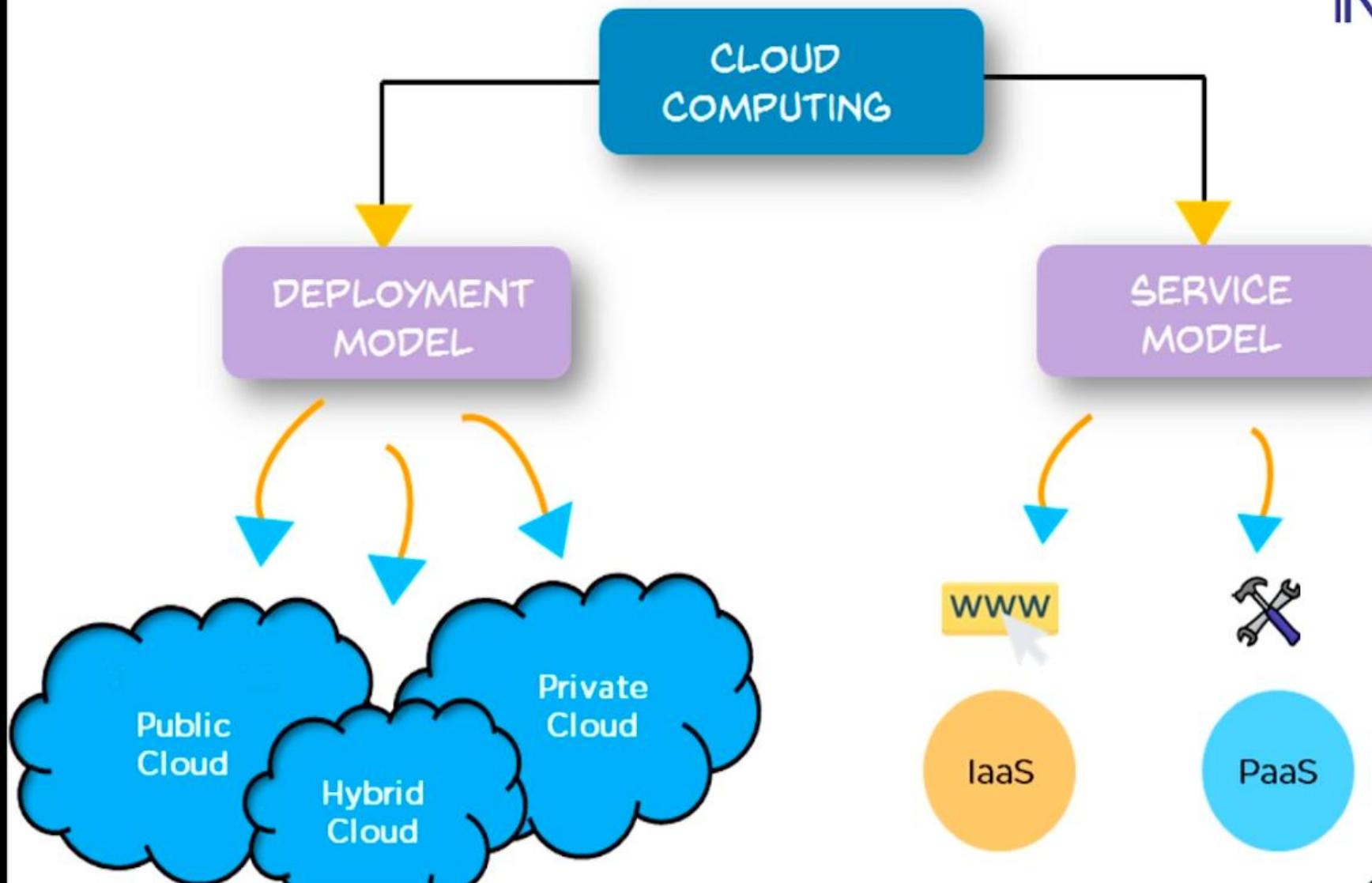


WHAT IS CLOUD COMPUTING?

Cloud is a technology that uses remote servers on the internet to store, manage, and access data online rather than local drives. The data can be anything such as files, images, documents, audio, video, and more.



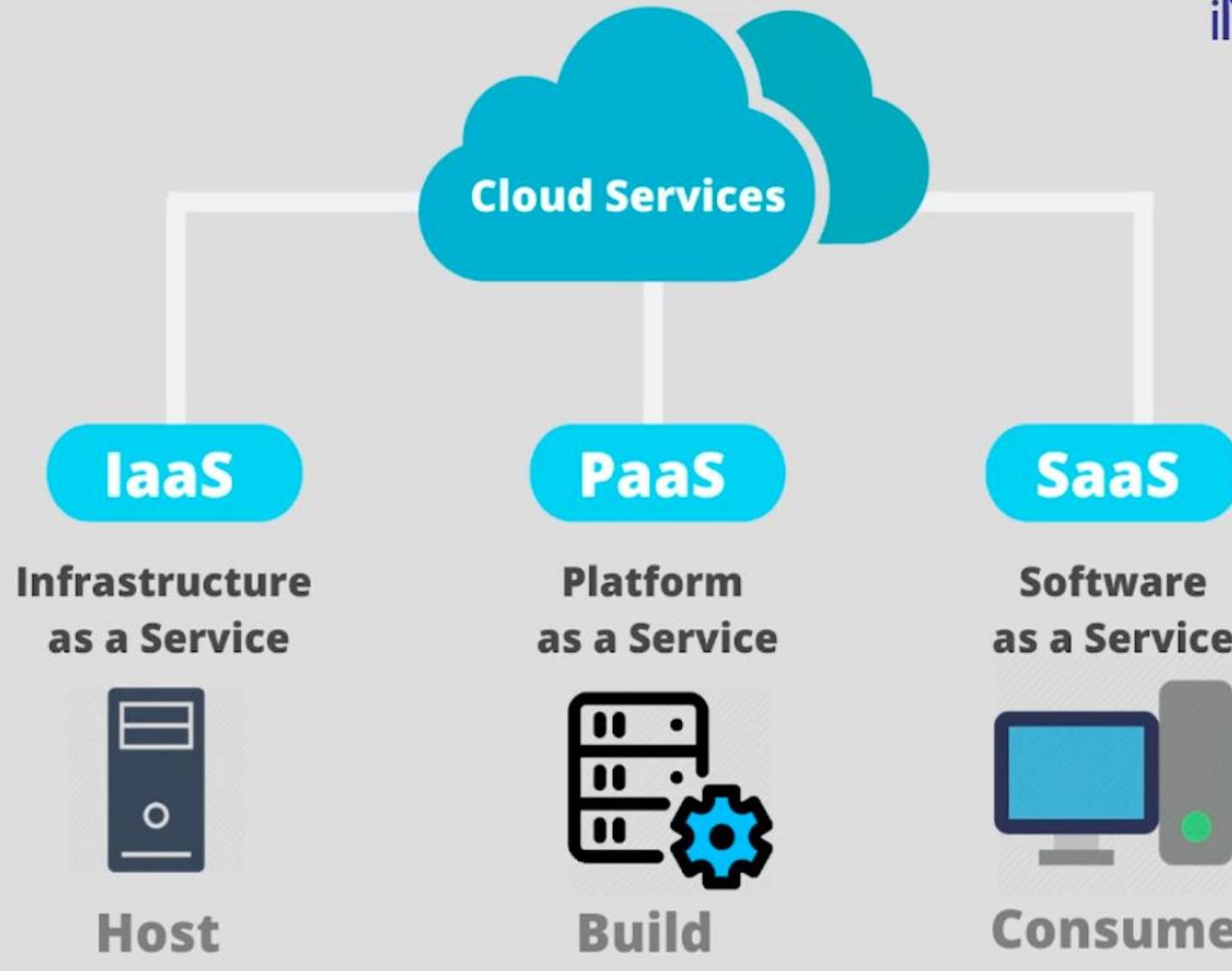






SERVICE MODELS







SOFTWARE AS SERVICE

- Software as a service (or SaaS) is a way of delivering applications over the Internet—as a service. Instead of installing and maintaining software, you simply access it via the Internet, freeing yourself from complex software and hardware management.
- For Example Salesforce.com provides the CRM (Customer Relation Manager) on a cloud infrastructure to its client and charges them for it, but software is owned by the salesforce company only



PLATFORM AS SERVICE

- The Platform as a Service can be defined as a computing platform that allows the user to create web applications quickly and easily and without worrying about buying and maintaining the software and infrastructure.
- Platform-as-a-Service provides tools for development, deployment and testing the software's, middleware solutions, databases, programming languages and APIs for developers to develop custom applications; without installing or configuring the development environment.



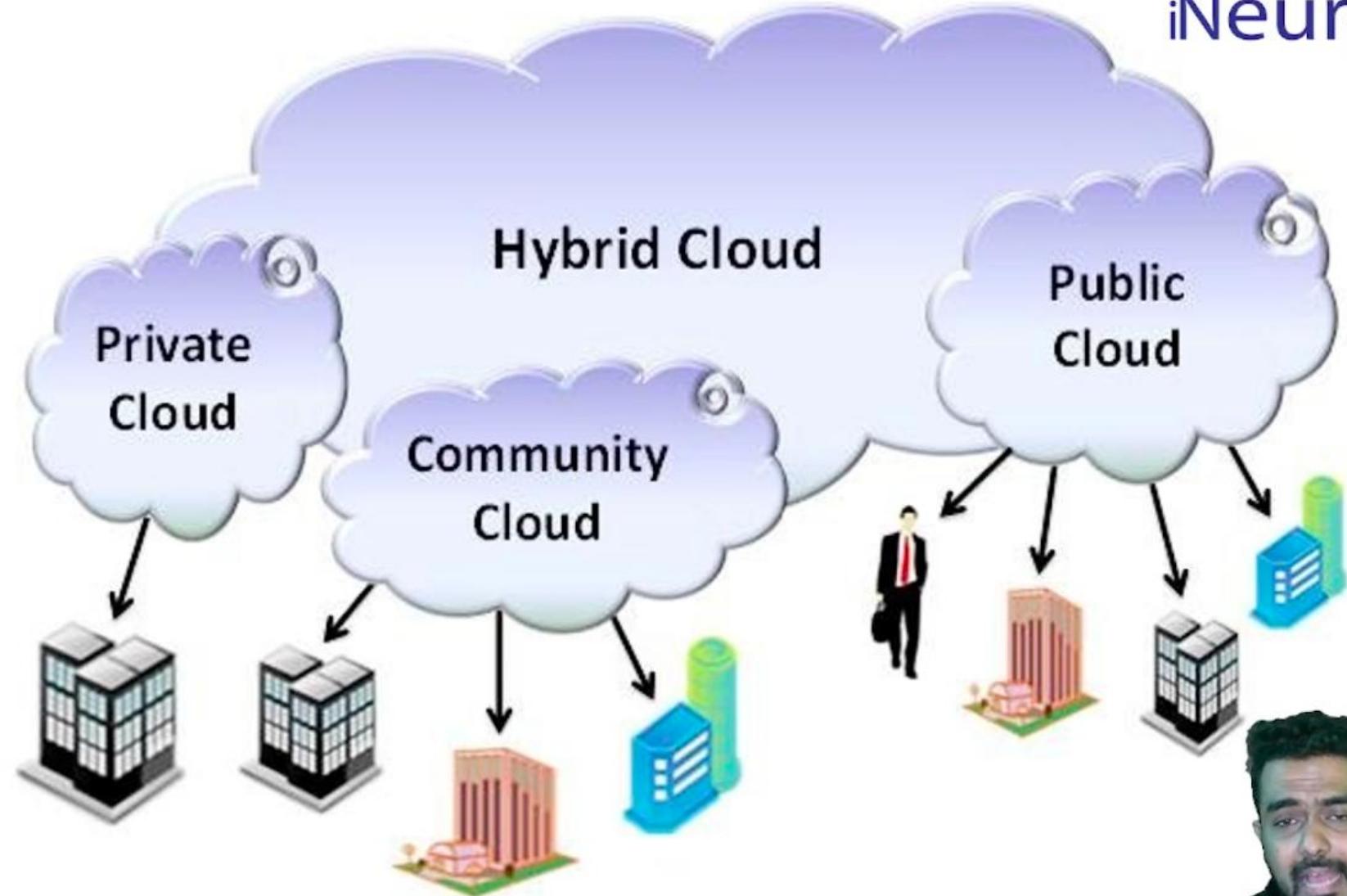
INFRASTRUCTURE AS SERVICE

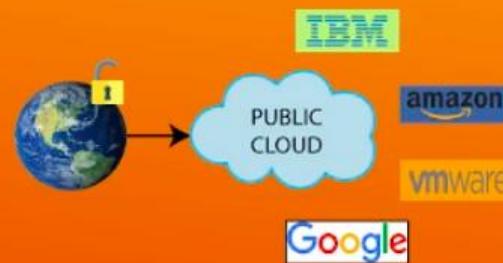
- Infrastructure-as-a-Service (IaaS) can be defined as the use of servers, storage, computing power, network and virtualization to form utility like services for users. It is a cloud service model that provides hardware resources virtualized in the cloud. It provides virtual computing resources to the users through resource pool.
- In IaaS, the CSP owns all equipment, such as servers, storage disks, and network infrastructure. Developers use the IaaS service model to create virtual hardware on which the applications and/ or services are developed.



DEPLOYMENT MODELS







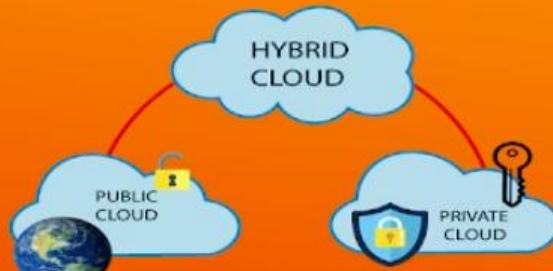
- ▶ Public cloud is **open** to all to store and access information via the Internet using the pay-per-usage method.
- ▶ In public cloud, computing resources are managed and operated by the Cloud Service Provider (CSP).
- ▶ **Example:** Amazon elastic compute cloud (EC2), IBM Smart Cloud Enterprise, Microsoft, Google App Engine, Windows Azure Services Platform.





- ▶ Private cloud is also known as an internal cloud or corporate cloud. It is used by organizations to build and manage their own data centers internally or by the third party.
- ▶ Private cloud provides a high level of security and privacy to the users.
- ▶ Private cloud offers better performance with improved speed and space capacity





- ▶ Hybrid Cloud is a combination of the public cloud and the private cloud
- ▶ Hybrid cloud is partially secure because the services which are running on the public cloud can be accessed by anyone, while the services which are running on a private cloud can be accessed only by the organization's users.
- ▶ **Example:** Google Application Suite (Gmail, Google Apps, and Google Drive), Office 365 (MS Office on Web and One Drive), Amazon Services



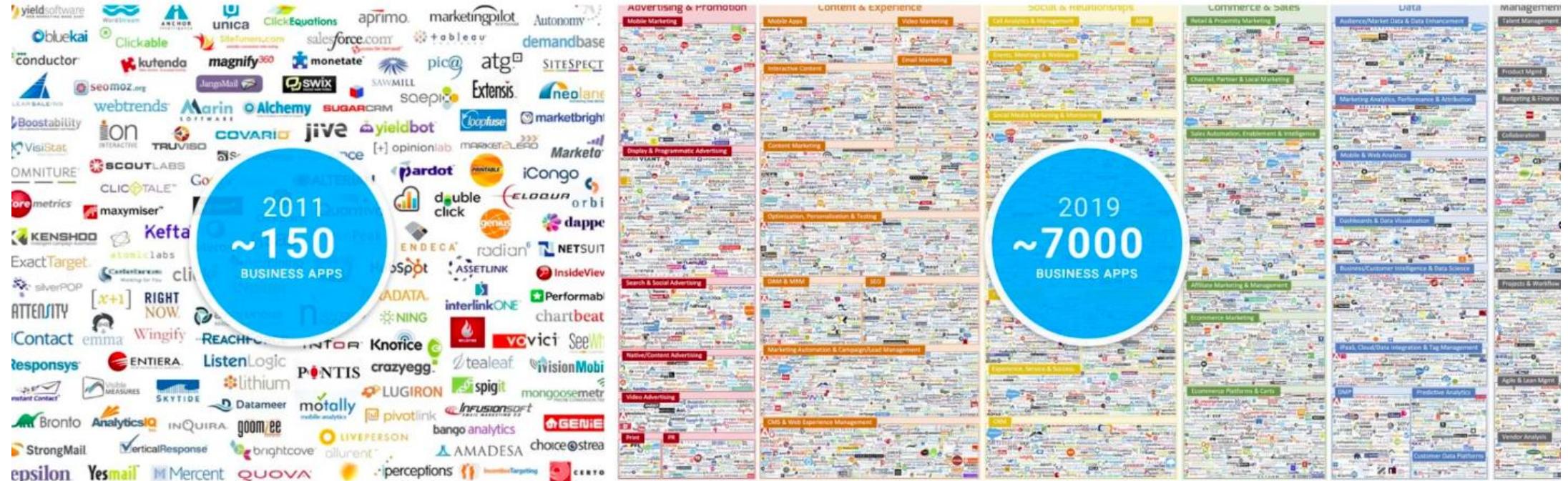
CLOUD PROVIDER

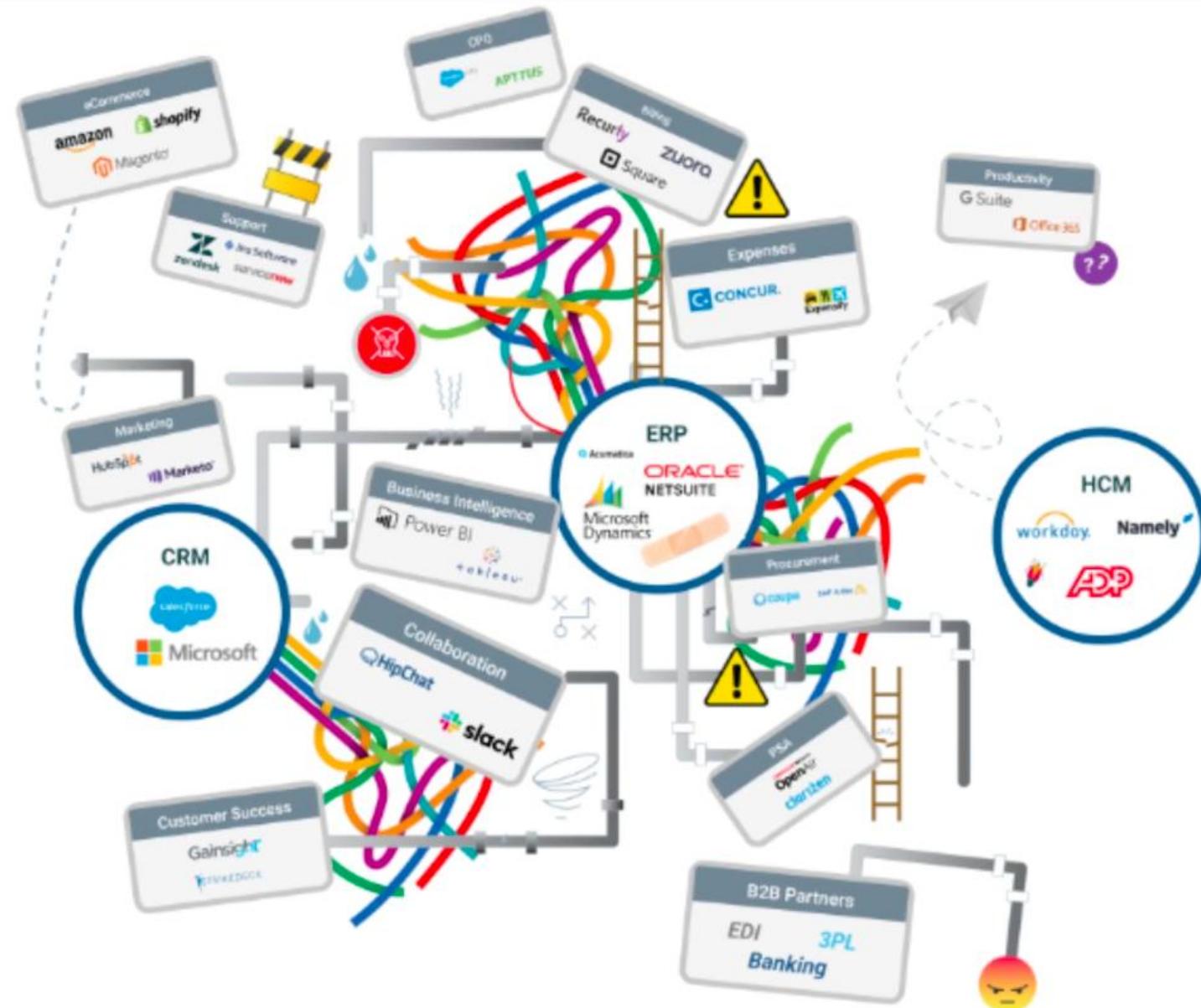


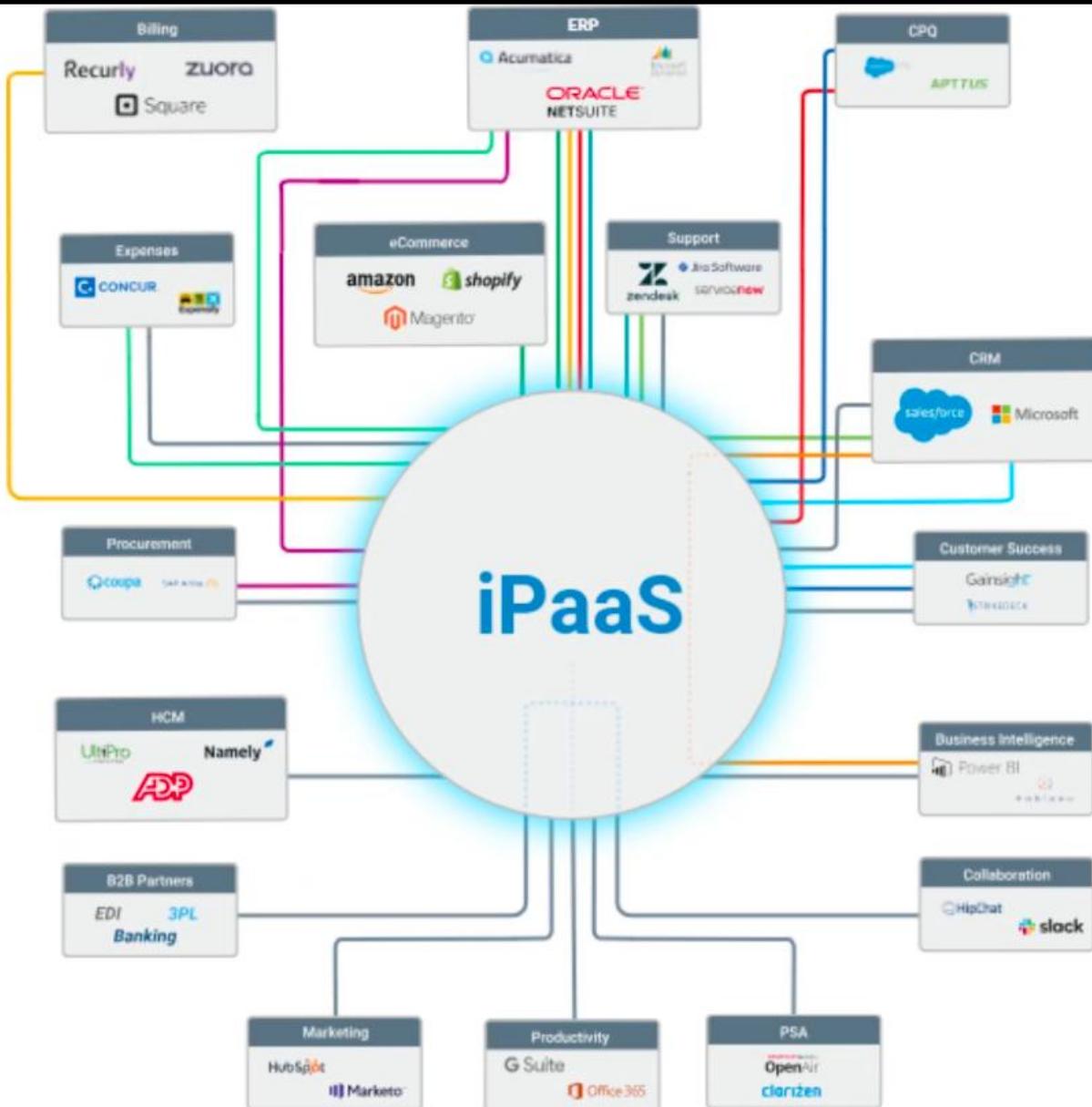


An iPaaS, or integration Platform as a Service, is a platform that standardizes how applications are integrated into an organization, making it easier to automate business processes and share data across applications.

The screenshot shows a software interface for managing projects and finances. On the left, a sidebar lists 'People', 'Members', 'Estimates', 'Expenses', 'Time Tracking', and 'Assets'. Below this are sections for 'Recent Projects' and 'Recent Members'. The main area has a title 'Overview' at the top. It features a 'Invoices & Expenses' chart with green and blue areas representing different categories over time, with a callout pointing to the green area. To the right is a box for 'Outstanding invoices' showing a total of '\$1,430.00'. Below that is a donut chart for 'Expense Categories' with segments for Entertainment, Office, Marketing, Travel, and General. The 'Active Projects' section displays 60 projects in progress and 12 completed projects. A table lists these projects with columns for name, lead, status, due date, and progress bar. At the bottom, there's a partial view of a chart and a timer indicating 00:35.





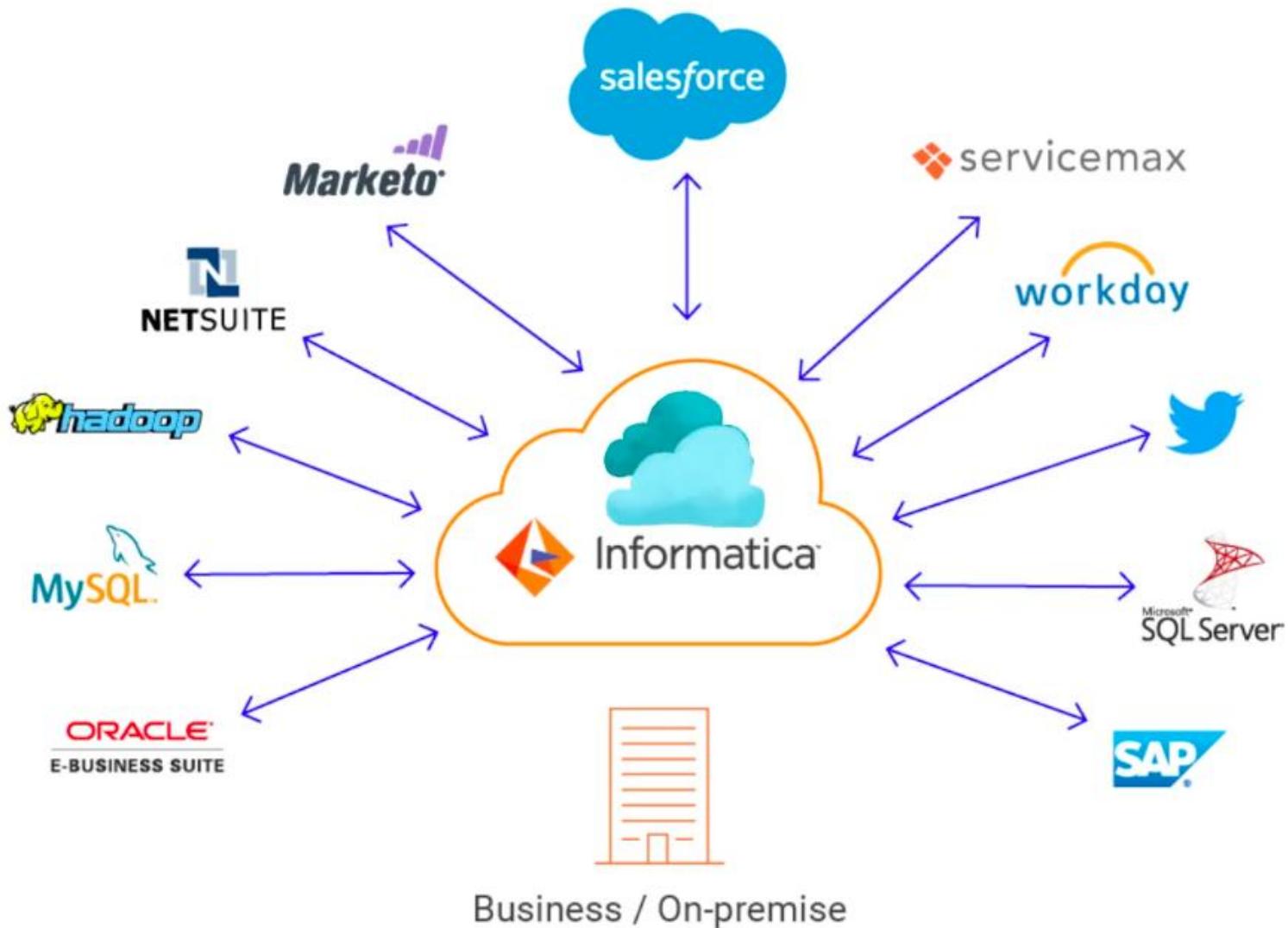


What is iPaaS: Integration Platform as a Service



• • • • •
informatica Cloud

Integration platform as a service (iPaaS) is a suite of cloud-native services that enables organizations to perform cloud-native data integration, application and API integration and data management via private, public, hybrid or multi-cloud.



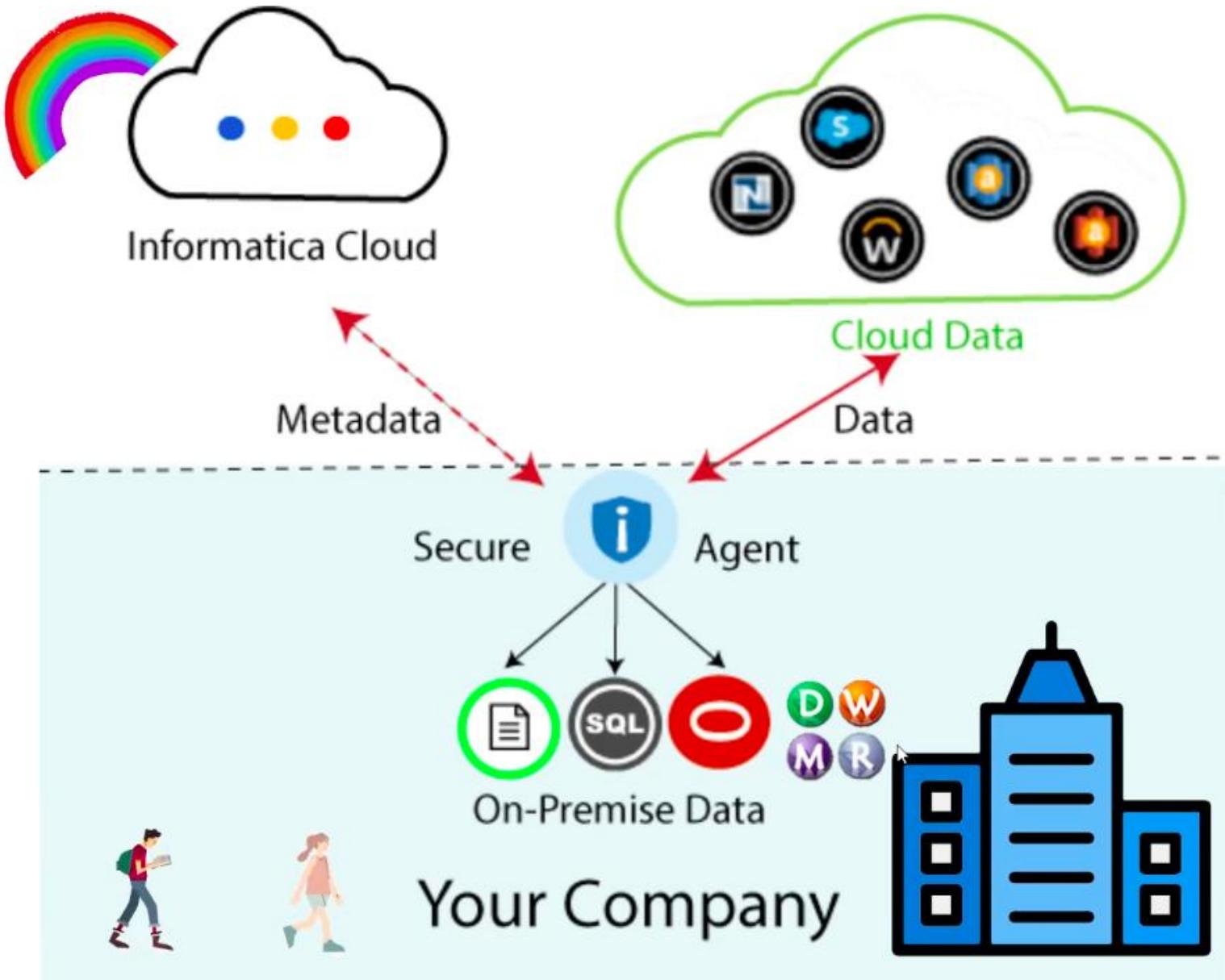


Power Center on premise

vs



Informatica cloud



← → ⌂ ⌂ ⌂ apse1.dm-ap.informaticacloud.com/diUI/products/integrationDesign/main/home

Bookmarks Razorpay Dashboard BitPaper - Features Home TL-WR740N Privacy error (55) DSC Error in G... Manage excellate... GitHub - Pierian-Da... Your Account Learning on Simpli... ineuron 20

Informatica Data Integration

Home

Overview

- 2 Runtime Environments
- 6 Connections
- 6 Projects | 2 Folders
- 27 Assets

Runtime Environments

- Informatica Cloud Hosted Agent Up and Running
- LAPTOP-AMIVJCON Up and Running

My Jobs

View All

Number of Jobs

Status	Count
Success	4
Warning	1
Failed	10

Most Recent Project

project4

4 ASSETS

Valid

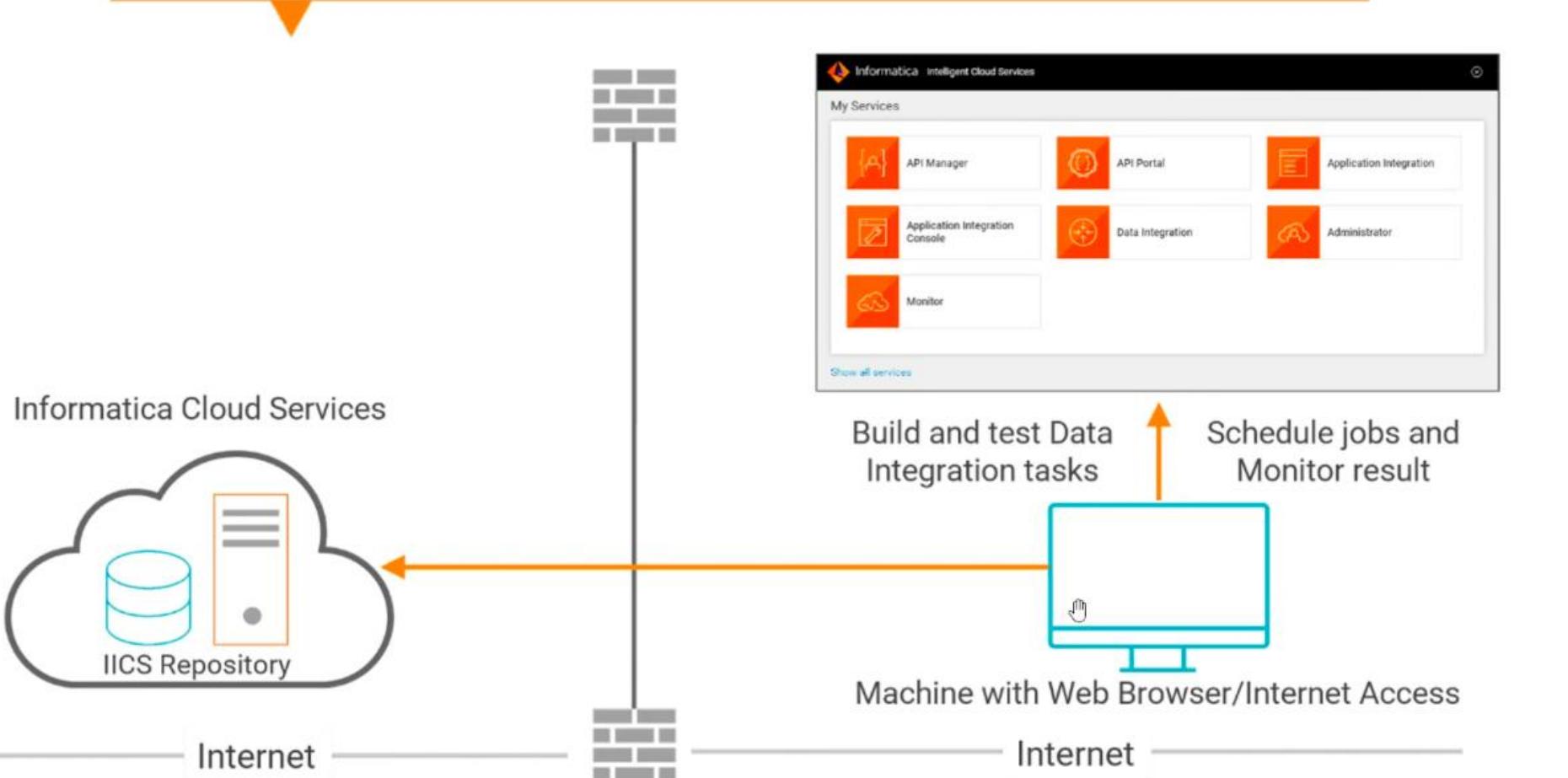
Recent Assets

View All

Name	Location	Last Accessed
loanmapping	Project1	Jul 29, 2022, 5:13 AM
Taskflow1	project3	Jul 29, 2022, 4:59 AM
fileloaddata	project3	Jul 29, 2022, 4:57 AM
MappingTas...	project3	Jul 29, 2022, 4:56 AM
Mapping3	project3	Jul 29, 2022, 4:55 AM

The screenshot shows a web browser window with the Informatica Intelligent Cloud Services dashboard. The dashboard has a black header with the Informatica logo and "Informatica Intelligent Cloud Services". On the right side of the header is a "Log Out" button. Below the header is a section titled "My Services" containing eight service icons arranged in a 3x3 grid:

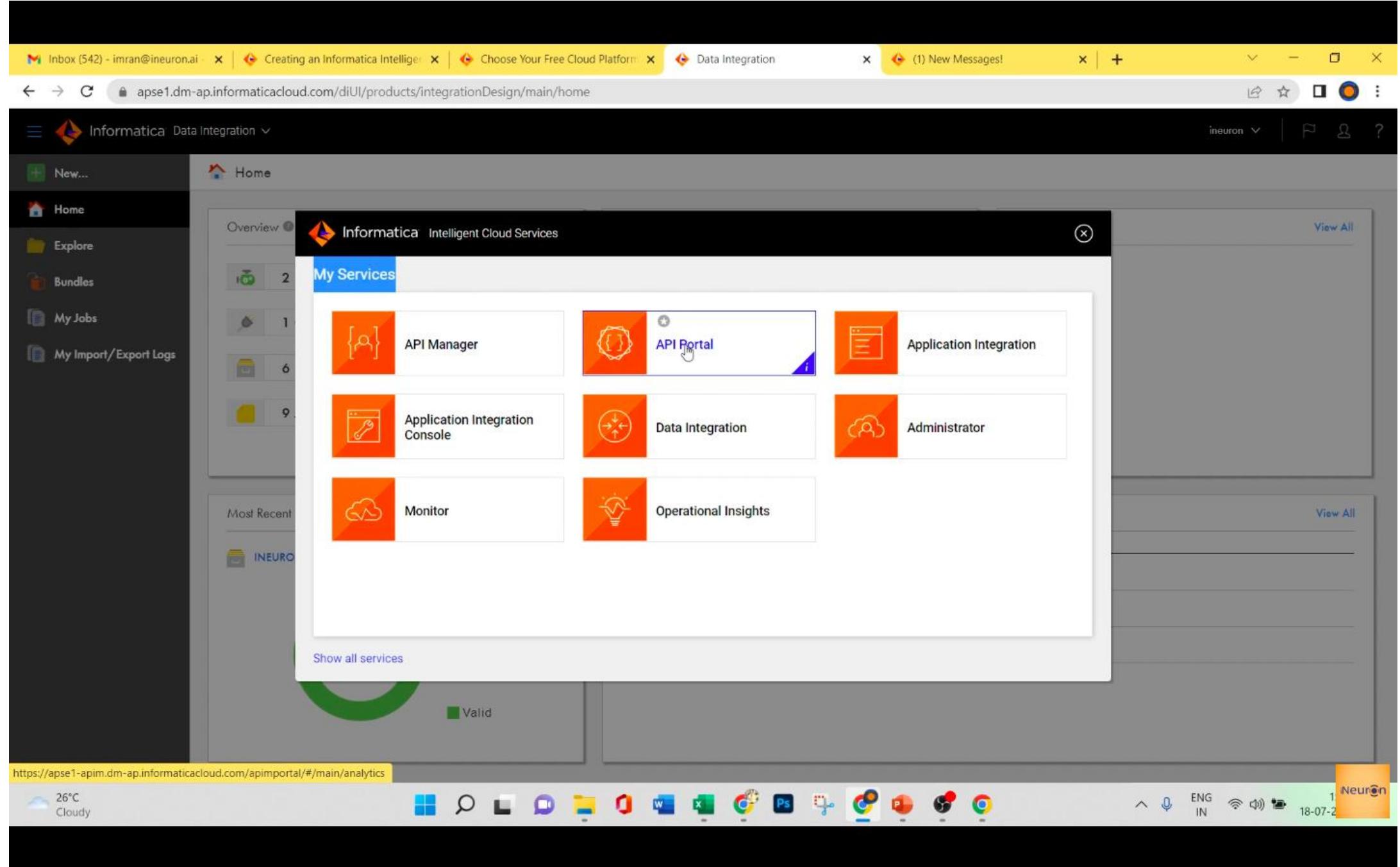
Below the grid is a link "Show all services". The background of the dashboard features a photograph of a modern building with a distinctive curved, metallic roof structure and large glass windows. The bottom of the screen shows a Windows taskbar with various pinned icons and system status indicators.





INFORMATICA CLOUD SECURE AGENT





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apse1.dm-ap.informaticacloud.com/diUI/products/integrationDesign/main/home

Informatica Data Integration

New... Home Explore Bundles My Jobs My Import/Export Logs

Overview

My Services

API Manager API Portal Application Integration

Application Integration Console Administrator

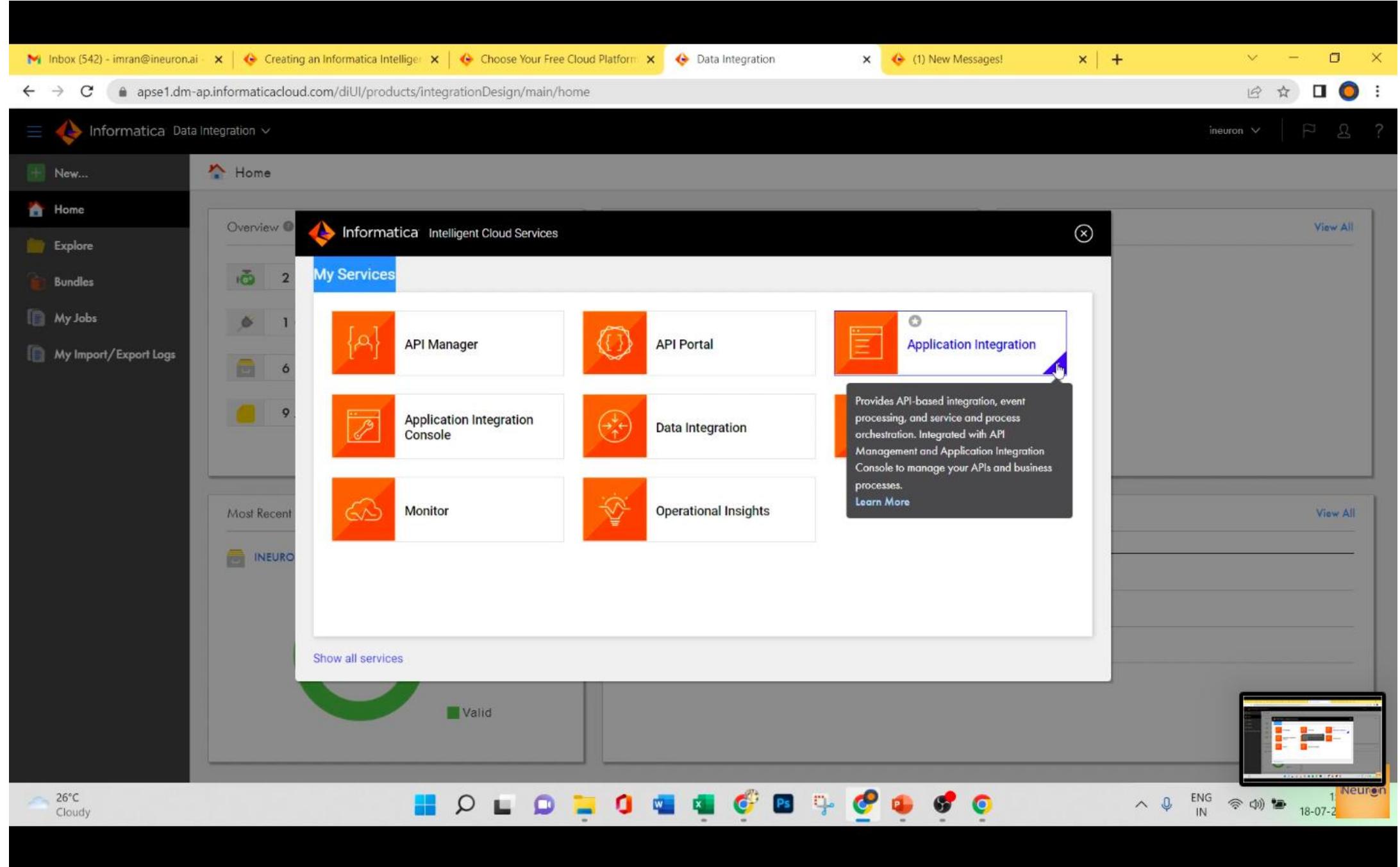
Monitor Operational Insights

Show all services

Valid

26°C Cloudy ENG IN 18-07-2023 Neuron

The screenshot shows the Informatica Data Integration interface. On the left, there's a sidebar with options like 'New...', 'Home', 'Explore', 'Bundles', 'My Jobs', and 'My Import/Export Logs'. The main area is titled 'My Services' and contains icons for 'API Manager', 'API Portal', 'Application Integration' (which is currently selected), 'Application Integration Console', 'Administrator', 'Monitor', and 'Operational Insights'. A tooltip for the 'Application Integration' service says: 'Enable Application developers to view API Information.' with a 'Learn More' link. At the bottom, there's a navigation bar with icons for Windows, Search, Task View, Microsoft Edge, Word, Excel, Google Chrome, and others. The system tray at the bottom right shows the date and time as '18-07-2023' and the temperature as '26°C Cloudy'. The status bar also shows 'ENG IN'.



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Informatica Data Integration

New... Home Explore Bundles My Jobs My Import/Export Logs

Overview

My Services

Informatica Intelligent Cloud Services

API Manager API Portal Application Integration

Application Integration Console Data Integration Administrator

Operational Insights

Monitor the execution of process instances. A component of Application Integration, the Console helps you manage your process execution and recovery.

Show all services

Valid

26°C Cloudy ENG IN 18-07-2023 Neuron

The screenshot shows the Informatica Data Integration interface. On the left, there's a sidebar with options like 'New...', 'Home', 'Explore', 'Bundles', 'My Jobs', and 'My Import/Export Logs'. The main area is titled 'My Services' and displays several services: 'API Manager', 'API Portal', 'Application Integration', 'Application Integration Console' (which is currently selected), 'Data Integration', 'Administrator', and 'Operational Insights'. A tooltip for the 'Application Integration Console' service states: 'Monitor the execution of process instances. A component of Application Integration, the Console helps you manage your process execution and recovery.' At the bottom, there's a 'Show all services' link and a 'Valid' status indicator. The bottom of the screen features a taskbar with icons for various Windows applications like File Explorer, Microsoft Word, and Google Chrome.

Informatica Data Integration

New... Home Explore Bundles My Jobs My Import/Export Logs

Overview

My Services

Informatica Intelligent Cloud Services

API Manager API Portal Application Integration

Application Integration Console Data Integration Administrator

Monitor

Show all services

Valid

Spin up high-performance, cloud data warehouse for huge volumes of data using advanced transformations, push-down optimization, synchronization, replication, asset management, pre-configured templates and mappings.

Learn More

View All

View All

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Informatica Data Integration

New... Home Explore Bundles My Jobs My Import/Export Logs

Overview

My Services

Administrator

Provides organization management capabilities across all cloud services including user, security, licenses, run time and connection management

API Manager API Portal Application Integration Application Integration Console Data Integration Monitor Operational Insights

Show all services

Valid

26°C Cloudy ENG IN 18-07-2023 Neuron

The screenshot shows the Informatica Data Integration interface. On the left, there's a sidebar with options like 'New...', 'Home', 'Explore', 'Bundles', 'My Jobs', and 'My Import/Export Logs'. The main area is titled 'My Services' and lists several services: 'API Manager', 'API Portal', 'Application Integration', 'Application Integration Console', 'Data Integration', 'Monitor', and 'Operational Insights'. The 'Administrator' service is currently selected, with a tooltip providing its description: 'Provides organization management capabilities across all cloud services including user, security, licenses, run time and connection management'. At the bottom, there's a taskbar with icons for various applications like Microsoft Office, Google Chrome, and others. The system tray at the bottom right shows the date and time as '18-07-2023' and the temperature as '26°C Cloudy'.

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Informatica Data Integration

New... Home Explore Bundles My Jobs My Import/Export Logs

Overview

My Services

API Manager API Portal Application Integration

Application Integration Console Data Integration Administrator

Monitor Operational Insights

Analyzes state of orchestration and deployment activities across all cloud services and provides in-depth actionable insights

Show all services

Valid

26°C Cloudy ENG IN 18-07-2023 Neuron

The screenshot shows the Informatica Data Integration interface. On the left, there's a sidebar with options like 'New...', 'Home', 'Explore', 'Bundles', 'My Jobs', and 'My Import/Export Logs'. The main area is titled 'Inforamica Intelligent Cloud Services' and shows a grid of services: 'API Manager', 'API Portal', 'Application Integration', 'Application Integration Console', 'Data Integration', 'Administrator', 'Monitor' (which is currently selected), and 'Operational Insights'. A tooltip for the 'Monitor' service states: 'Analyzes state of orchestration and deployment activities across all cloud services and provides in-depth actionable insights'. Below the grid, there's a button 'Show all services' and a status indicator 'Valid'. At the bottom, there's a taskbar with icons for various applications like Microsoft Office, Google Chrome, and others. The system tray at the bottom right shows the date and time as '18-07-2023' and 'Neuron'.

Informatica Data Integration

New... Home Explore Bundles My Jobs My Import/Export Logs

Overview

Administrator Monitor Operational Insights

All Services

Data Quality and Governance Cloud

- Data Governance and Catalog
- Data Marketplace
- Data Profiling

Data Quality Metadata Command Center

Integration Cloud

Valid

20% 02:27

INEURO

View All

View All

Valid

02:27

INEURO

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Informatica Data Integration

New... Home Explore Bundles My Jobs My Import/Export Logs

Overview All Services

Mass Ingestion PC to Cloud Conversion

Master Data Management Cloud:

- Business 360 Console
- Customer 360
- Multidomain MDM
- Product 360
- Reference 360
- Supplier 360

Valid

26°C Cloudy ENG IN 18-07-2023 Neuron

The screenshot shows the Informatica Data Integration interface. On the left, there's a sidebar with options like 'New...', 'Home', 'Explore', 'Bundles', 'My Jobs', and 'My Import/Export Logs'. The main area has a title 'Inforamica Intelligent Cloud Services' and a sub-section 'All Services'. It displays several service cards: 'Mass Ingestion' (green), 'PC to Cloud Conversion' (orange), and a group under 'Master Data Management Cloud:' which includes 'Business 360 Console', 'Customer 360', 'Multidomain MDM', 'Product 360', 'Reference 360', and 'Supplier 360'. A large green circle at the bottom left indicates 'Valid'. The status bar at the bottom shows weather (26°C, Cloudy), language (ENG IN), date (18-07-2023), and a Neuron icon.