

The IZO logo, a blue hexagon containing a stylized bar chart with three bars of increasing height.

IZOTM PRIVATE CLOUD

CLOUD SECURITY: THE CHALLENGES FOR THE DATA CENTRE AND IT ENVIRONMENT

NOVEMBER 2016

ENTERPRISE IT STRATEGY – DEFINED BY VARIOUS STAKEHOLDERS

CIO

- Become provider of choice
- Need easy deployment and integration
- Need round-the-clock support

CFO

- Convert to pay-as-you-grow
- Reduce CAPEX
- Increase profitability

CISO

- Need to be prepared against unknown threats
- Secure all parts of the infrastructure
- Need compliance, fast response

Business User

- Need resources for faster time to market
- Give me self-service capability

THE DATA CENTRE TO CLOUD SPECTRUM

Corporate
Data Center



Colocation



Hosting



Hosted
Private Cloud

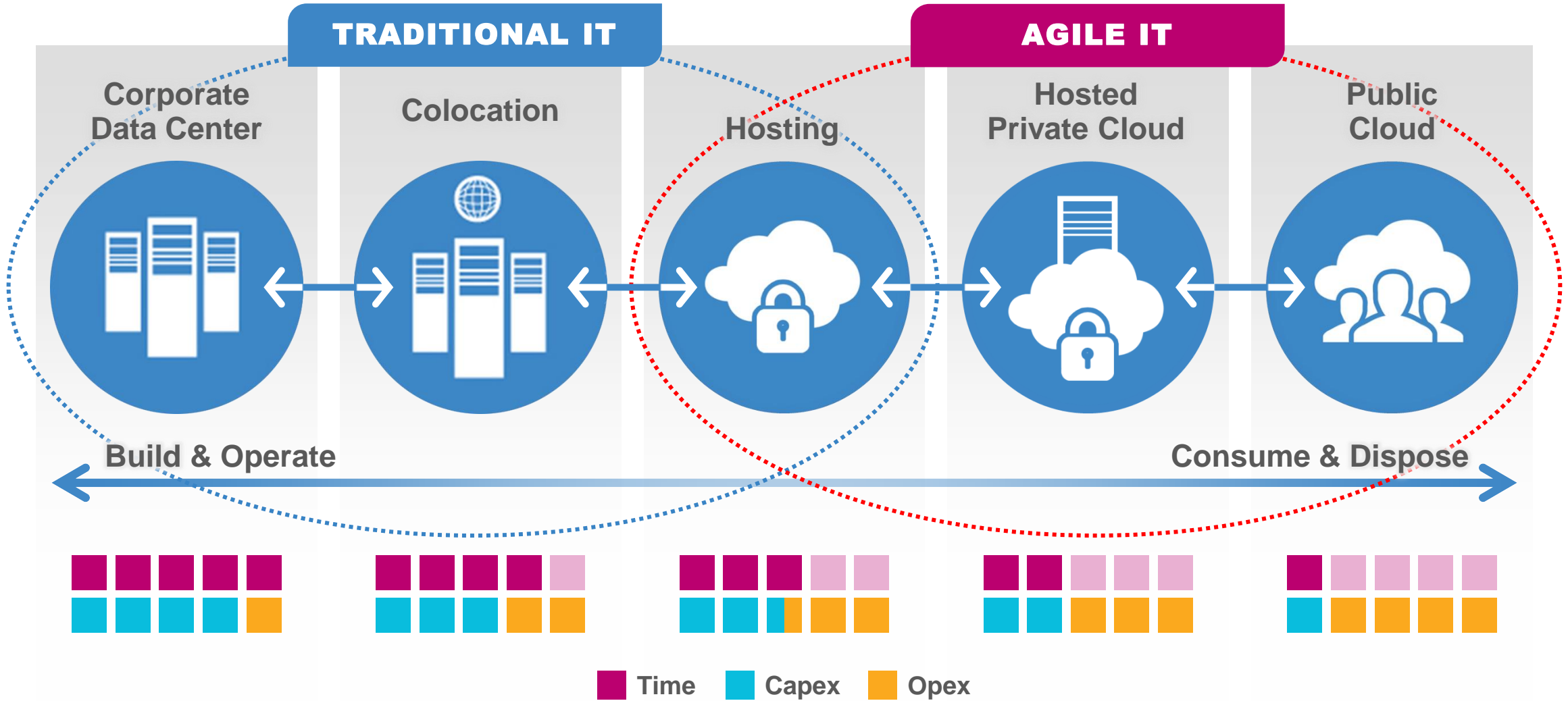


Public
Cloud

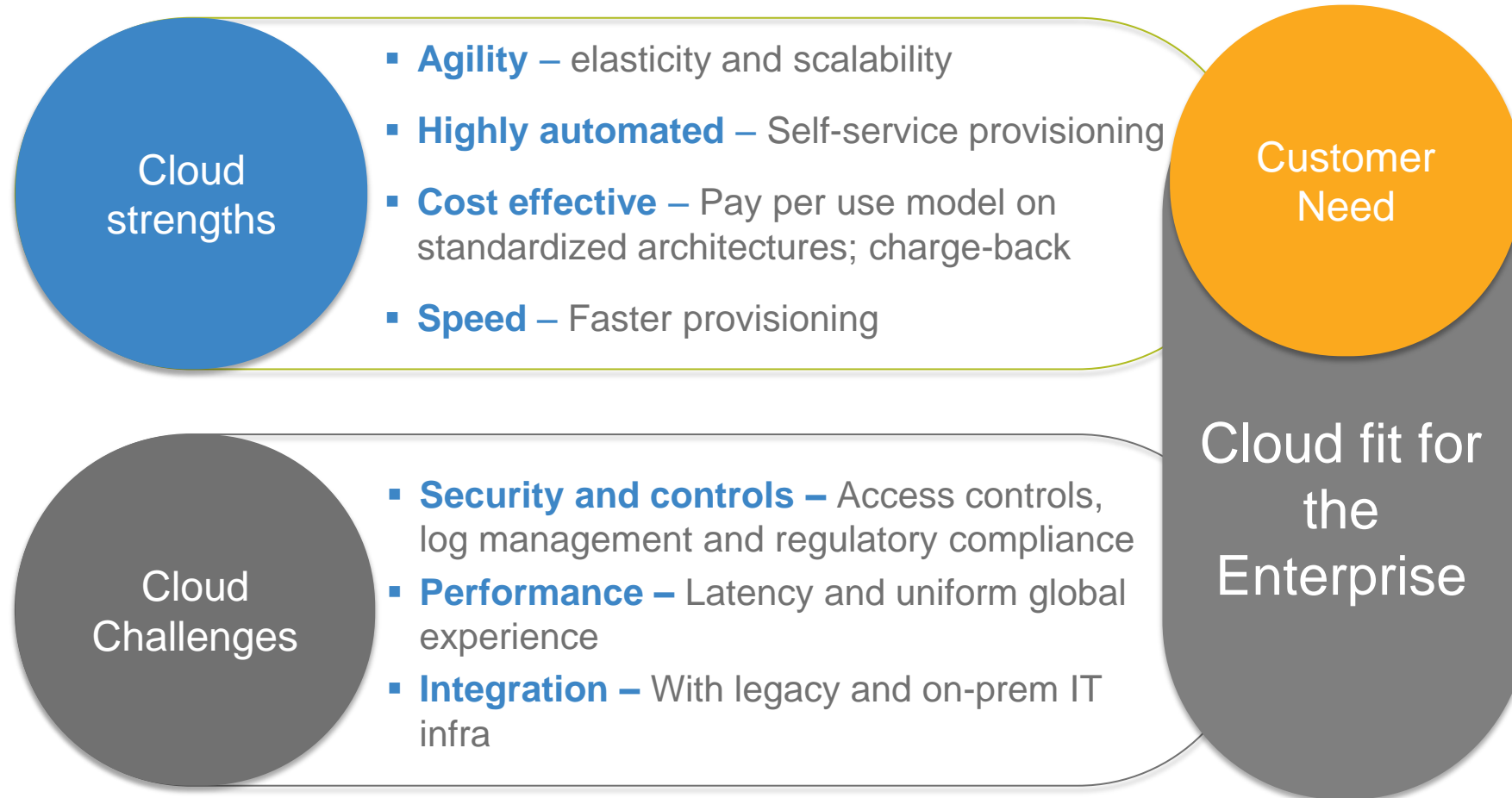


Various IT environments exist in isolation

THE DATA CENTRE TO CLOUD SPECTRUM



CLOUD HAS MANY BENEFITS BUT ALSO CHALLENGES FOR ENTERPRISE UPTAKE



IT TRANSFORMATION IS NOT EASY





IT transformation
will happen via
cloud-enabled
managed hosting

SECURE

- Secure cloud environment available through orchestration of enterprise class security solutions
- Provide audit trail and authentication solutions

INTEGRATED

- Integrated view for the infrastructure deployed at various locations and of various platforms
- Ease of integration with the in-house IT

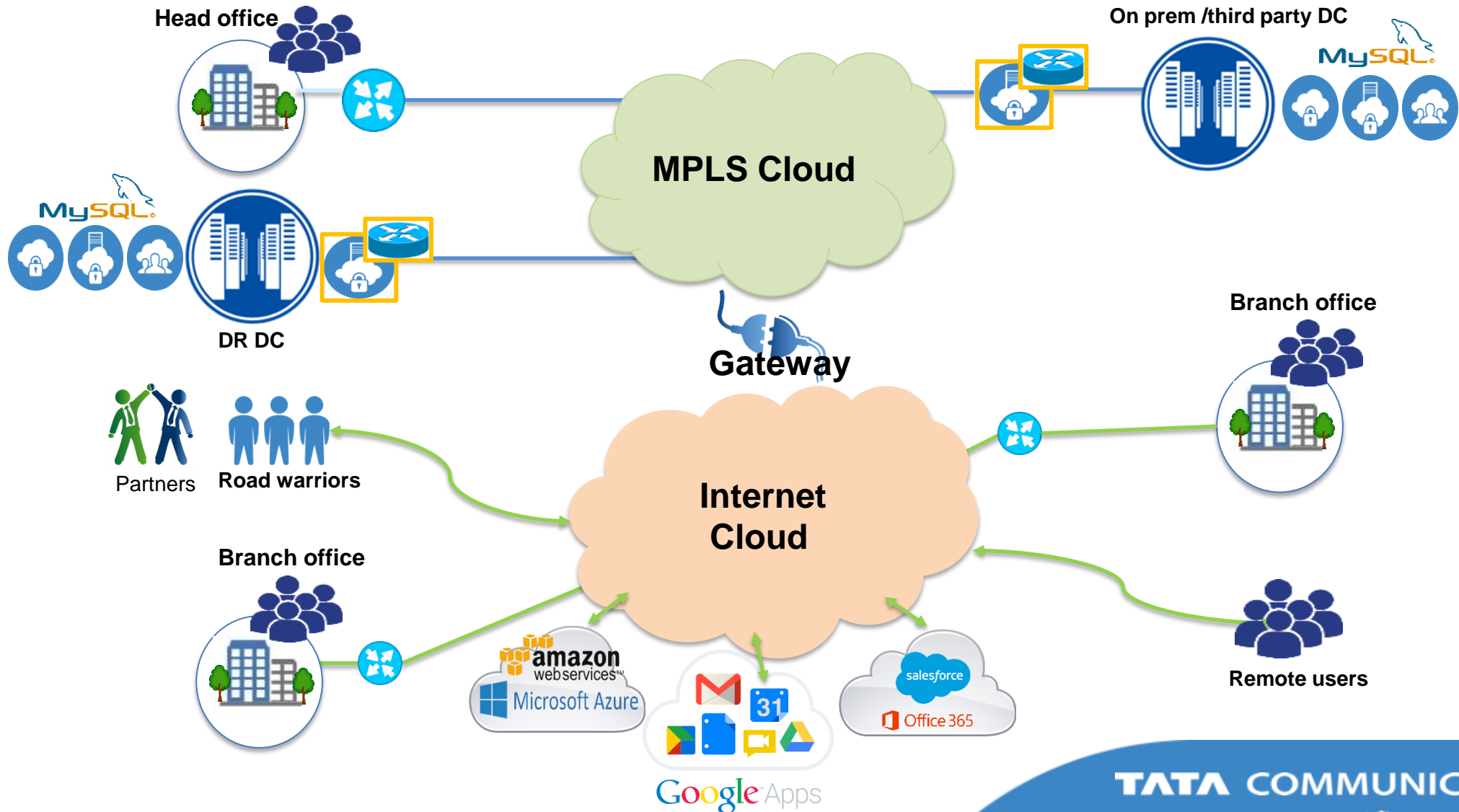
MANAGED

- Extend ITSM tools and expertise to the cloud environment to provide an integrated management and reporting interface
- Enable the IT department to provide, monitor and manage users via an extensive service catalog

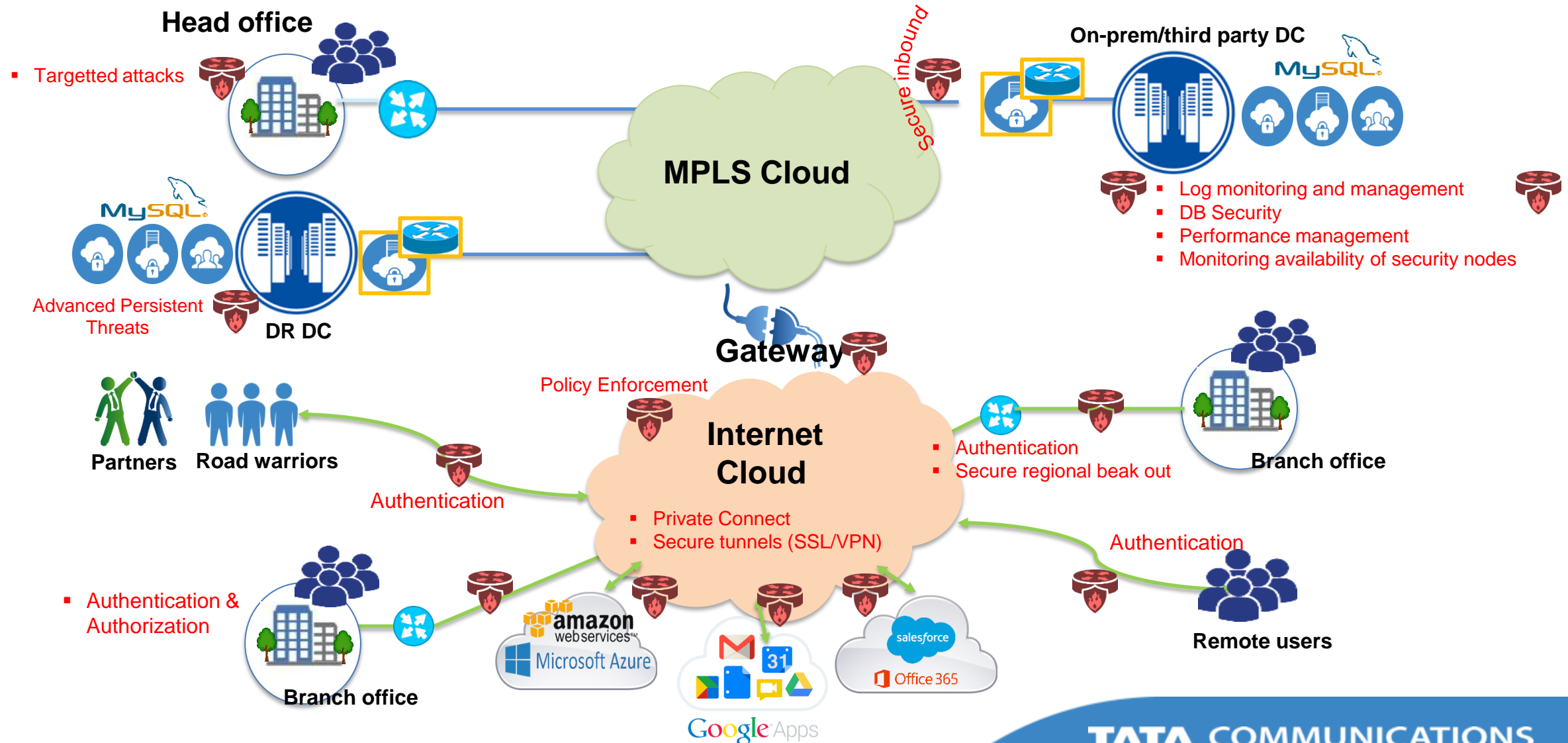
FAST

- Global network and multiples nodes enables faster content delivery and efficient use of bandwidth
- Integrating CDN with other products and services, provides a comprehensive customer solution customized to business need

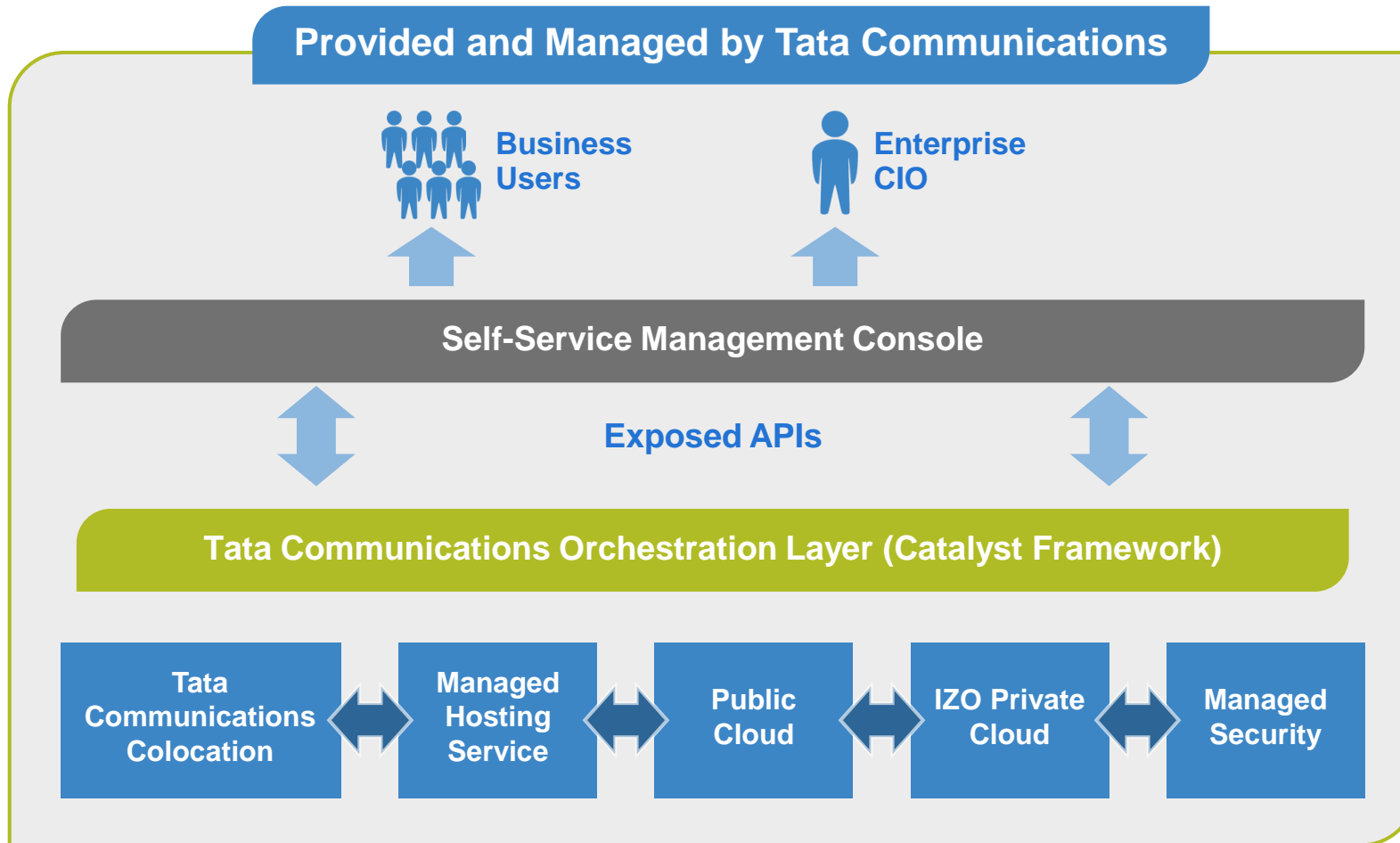
INTERPRETING SECURITY FOR ENTERPRISE 2.0



SECURITY WRAP FOR THE ENTERPRISE SETUP



AN INTEGRATED MANAGEMENT VIEW



Single Pane of Glass

- CIO and IT are internal service providers to the business
- Gives control back to Business
- Ability to choose cloud platform depending on workload type
- Single management console to manage infrastructure health
- Security in the cloud

CUSTOMER CASE STUDY – LEADING CONGLOMERATE IN INDIA

Consolidation of IT infrastructure for its 4 entities, with IZO Private Cloud setup and new disaster recovery (DR) facilities, now featuring comprehensive security and uninterrupted network connectivity.

CUSTOMER NEED

- The Group has four entities and each has a separate IT infrastructure.
- Data center (DC) consolidation across the group companies
- Disaster Recovery (DR) solution
- Private cloud environment where infrastructure provisioning can be orchestrated.
- Chargeback features for cost estimation and billing
- Upgrade the existing server, storage, network and security setup
- Migration of critical IT infrastructure to cloud based services
- MPLS connectivity for the DC and DR sites and DR services on a cloud based platform

OUR SOLUTION

- We proposed a hybrid cloud solution with **integration between the IZO Private Cloud, MHS and Managed Colocation.**
- Supported by deploying workloads on VMware and KVM hypervisors on the IZO Private Cloud platform.
- The benefits of the solution include:
 - **IT consolidation and tech refresh** – help to reduce the number of servers and migration of workloads to cloud that helped to reduce capex
 - **Cloud based web security** – the vProxy solution provided protection against web based malware and helped in securing internet connectivity
 - **Secure Private Connectivity** – MPLS links were provided for uninterrupted connectivity between sites
 - **Disaster Recovery Solution** – an end-to-end management of the platform for DR site was provided

WHY TATA COMMUNICATIONS

- Reliable partner to consolidate infrastructure with breadth of services
- Reduced CapEx, faster time-to-market
- Quickly increase business agility and innovation
- Disaster preparedness and business continuity
- Consultative approach, bespoke solution
- 24x7x365 proactive monitoring and management

SOLUTION COMPONENTS

- IZO Private Cloud
- Managed Hosting
- Managed Firewall
- Managed Security
- Network Connectivity

ALIGNED SERVICES

- Vproxy service
- MPLS, ILL Connectivity
- DC and DR service

MUST HAVES FOR SECURITY IN THE CLOUD



- **Information** – on IT assets deployed and entry points in the corporate network
- **Ability** – to deploy enterprise security tools and to respond to threats in real-time
- **Alignment** – of IT assets across different platforms with corporate policies and industry practices

THANK YOU