Alibaba Cloud

IN INDONESIA
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Hybrid Cloud Solution

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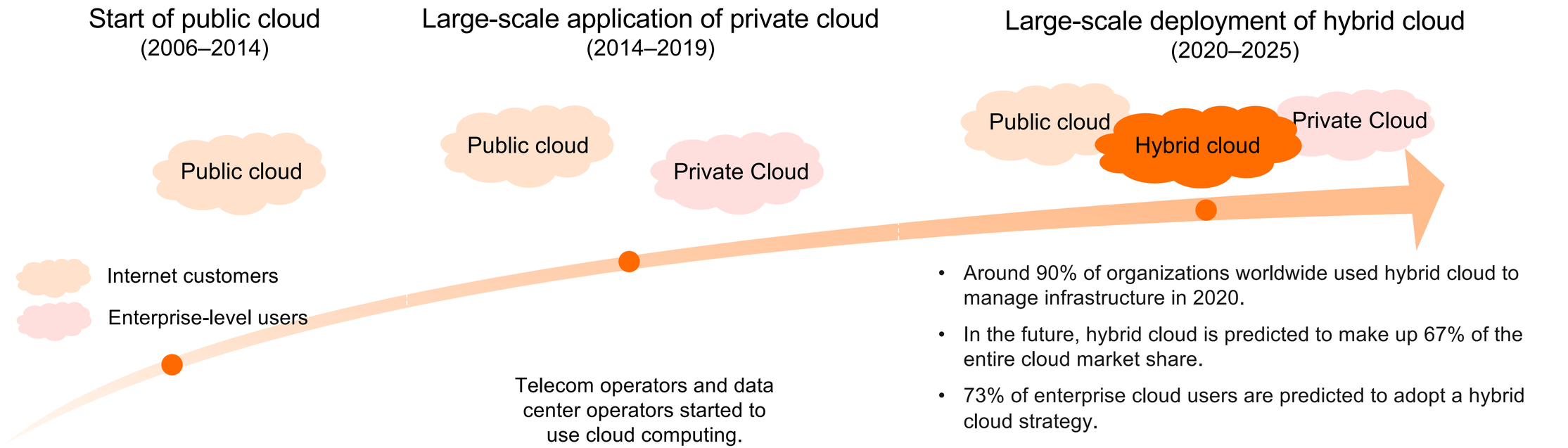
Alibaba Cloud Indonesia

Cloud Industry Development History



Technology-driven	Large-scale storage and computing power, distributed, paralleled technologies, etc.	Micro service, DevOps, cloud-native products, etc.	Hyper-converged architecture, container service, multi-cloud management, etc.
Scenario-driven	E-commerce, video, game, and other highly flexible resource scenarios	IT architecture upgrades of enterprises and government offices	Large-scale AI application, more linkage between B2B and B2C business, driving enterprise users to migrate to hybrid cloud architecture
Policy-driven	Government policies for computing	Government policies for private cloud	Government policies to encourage government-backed enterprises, private enterprises, and strongly regulated industries to rapidly move their business to the cloud

Cloud Adoption

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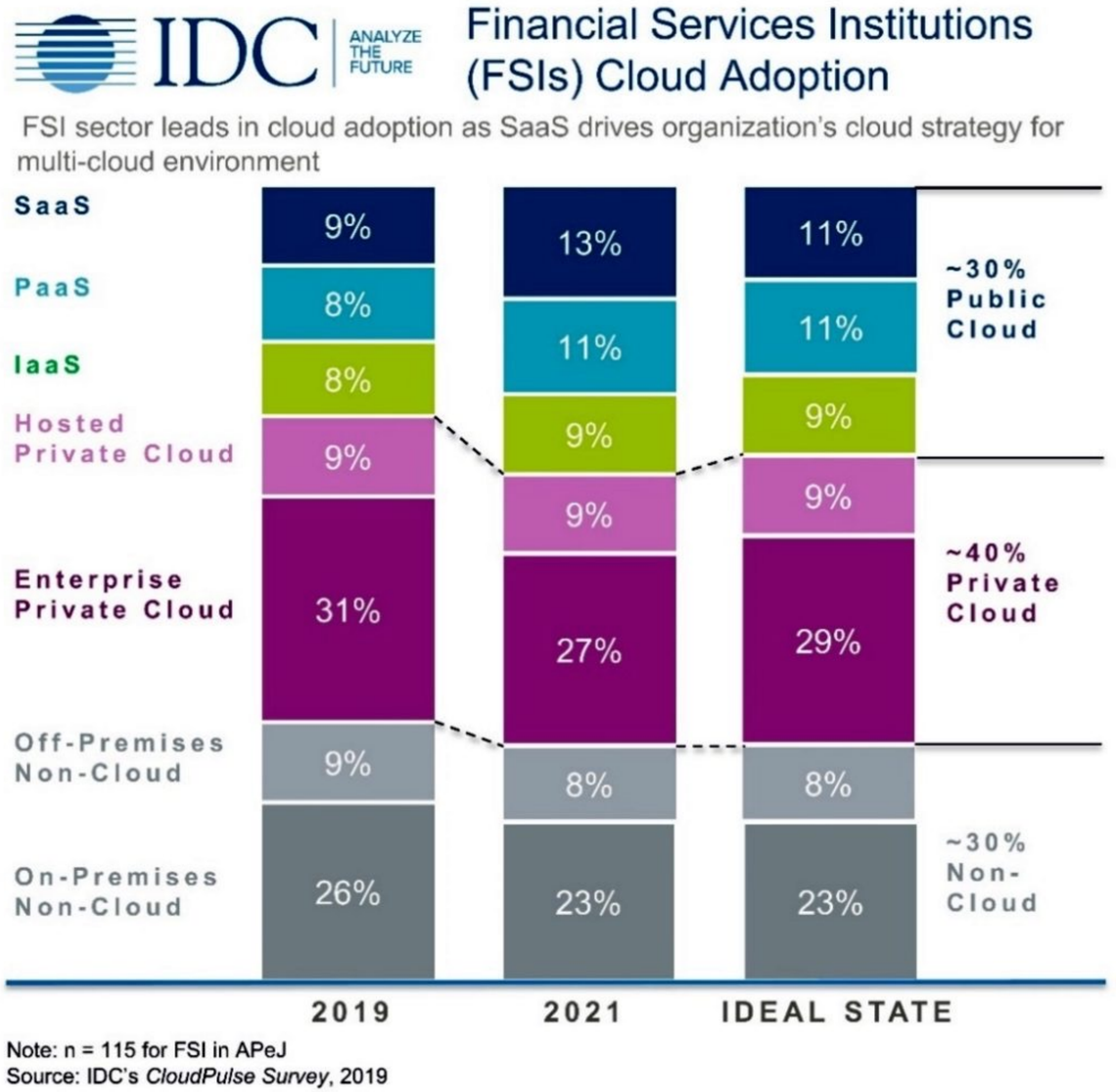
The IDC State of Cloud in Financial Services Industry for Asia/Pacific excluding Japan (APEJ)
2020 noted that public cloud is playing a critical role in the bank's modernization efforts.

More than 40% of APEJ FSIs already run workloads and IT jobs, either in part or in full, in a multitenant public cloud.



Cloud Workload

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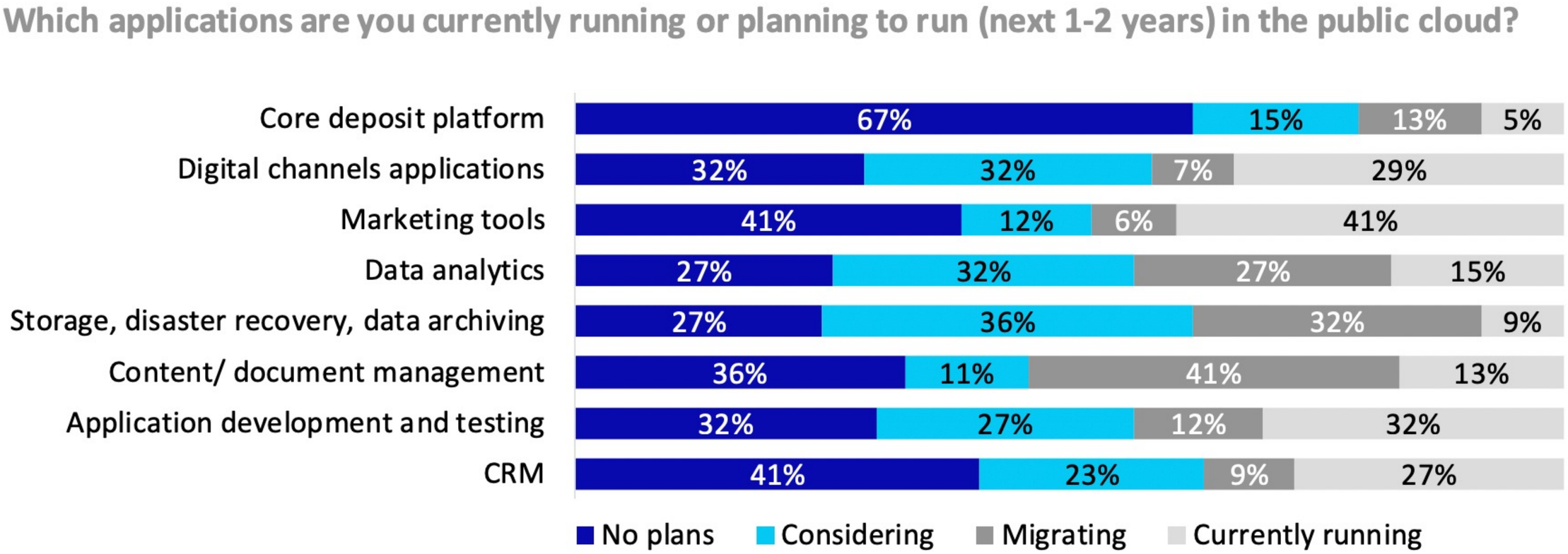

Source: Celent FI Survey, December 2019

Workload Consideration

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	Service Quality	Performance, availability, business centric user access
	Governance	Security, privacy, regulatory and compliance
	Cost Optimization	Align the type of infrastructure resources to operating budget
	Resource Optimization	Ability to manage deployment using right type of people, process, and automation

Hybrid-Driven and Scenario-Oriented Capabilities

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	Support for Hybrid Workload		Dynamic scaling-out to the public cloud during high loads	65%
			Dynamic scaling-in from the public cloud during low loads	64%
	Hybrid DevOps		Integrated deployment of applications across private and public cloud offerings	62%
			Development, operations and maintenance of applications across private and public cloud offerings	61%
	Hybrid Disaster Tolerance and Backup and Recovery		Load balancing and effective disaster tolerance backup and recovery across private and public cloud offerings	65%
			Two-way data backup capability between private and public cloud offerings	68%

Base: 220 senior-level cloud computing decision makers in midsize to large organizations from China, Singapore, Japan, and the UK
Source: A commissioned study conducted by Forrester Consulting on behalf of Alibaba Cloud and Intel, February 2019

Hybrid Workload Traffic Distributed

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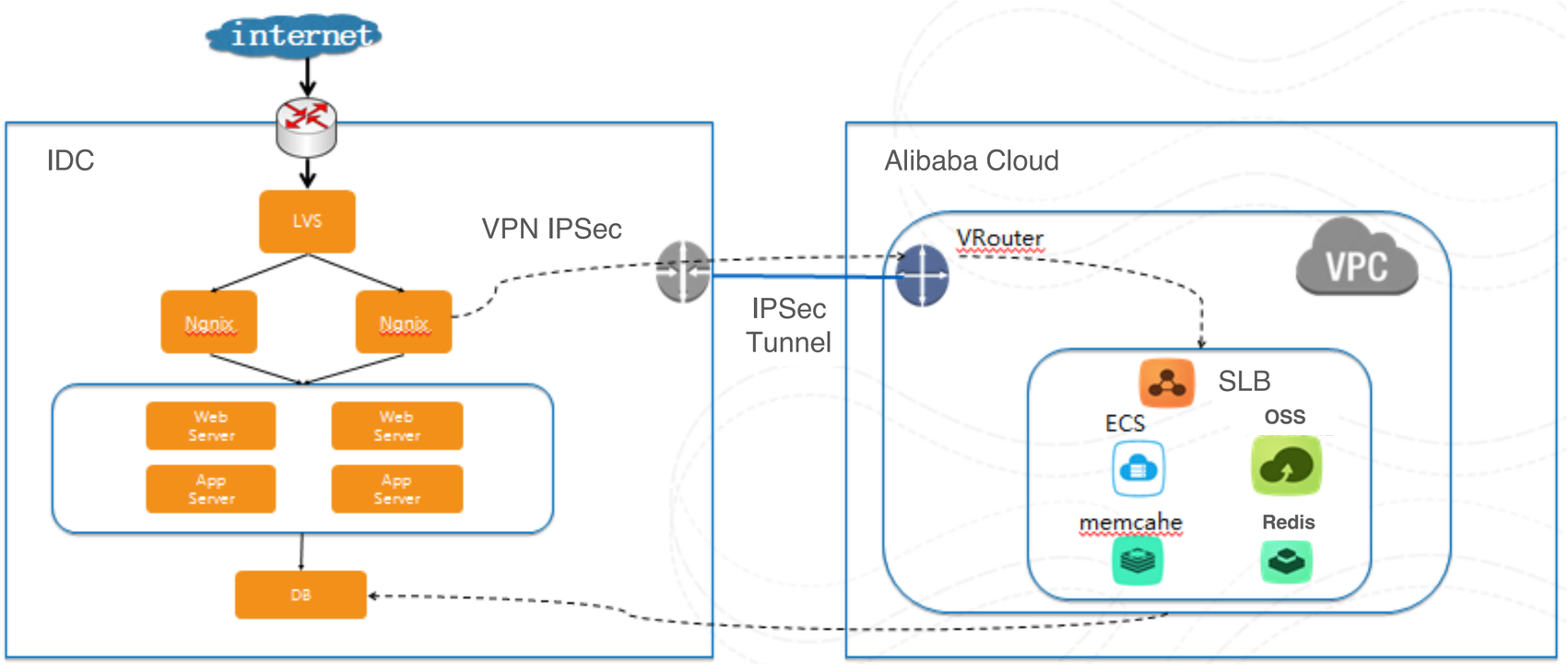
As the enterprise grows, its business needs an increasing amount of resources. A hybrid cloud structure can be built between Alibaba Cloud and enterprises to redistribute par of the traffic to Alibaba Cloud, thereby meeting the elastic demand for resources.



- Sales promotion by enterprises
- Public cloud resources are billed in Pay-As-You-Go mode.
- Only stateless service resources are required, such as VM+cache and read-only database instances.
- Resources must be created rapidly and access to these resources must be stable.

Hybrid Workload between Application and Database

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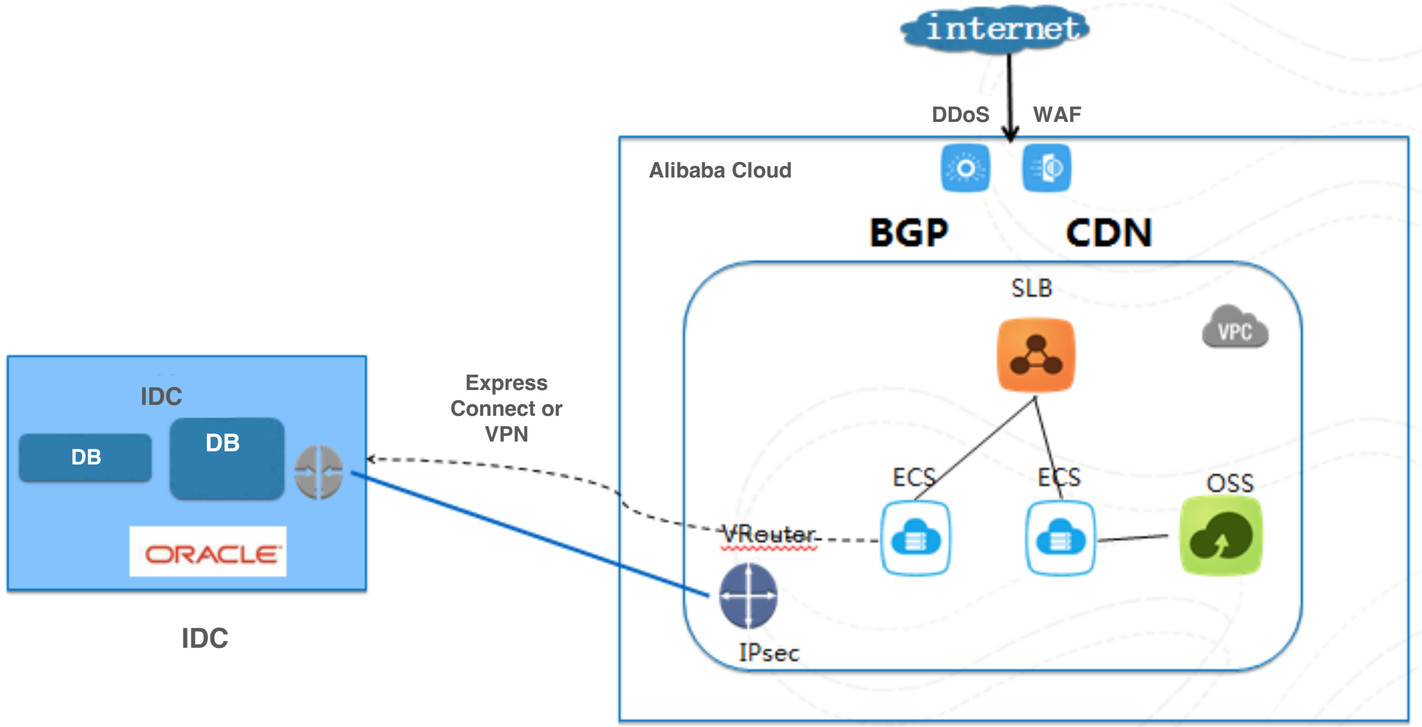
Enterprise data cannot be migrated to the cloud due to compliance requirements or the technical characteristics of specialized devices and Oracle RAC clusters. Enterprises that need to use Alibaba Cloud's resources and advanced Internet technologies can configure link redundancy to deploy databases off the cloud while migrating applications to Alibaba Cloud when the physical distance is short, with relatively high network rates and low jitter.



Hybrid Cloud DevOps Solution

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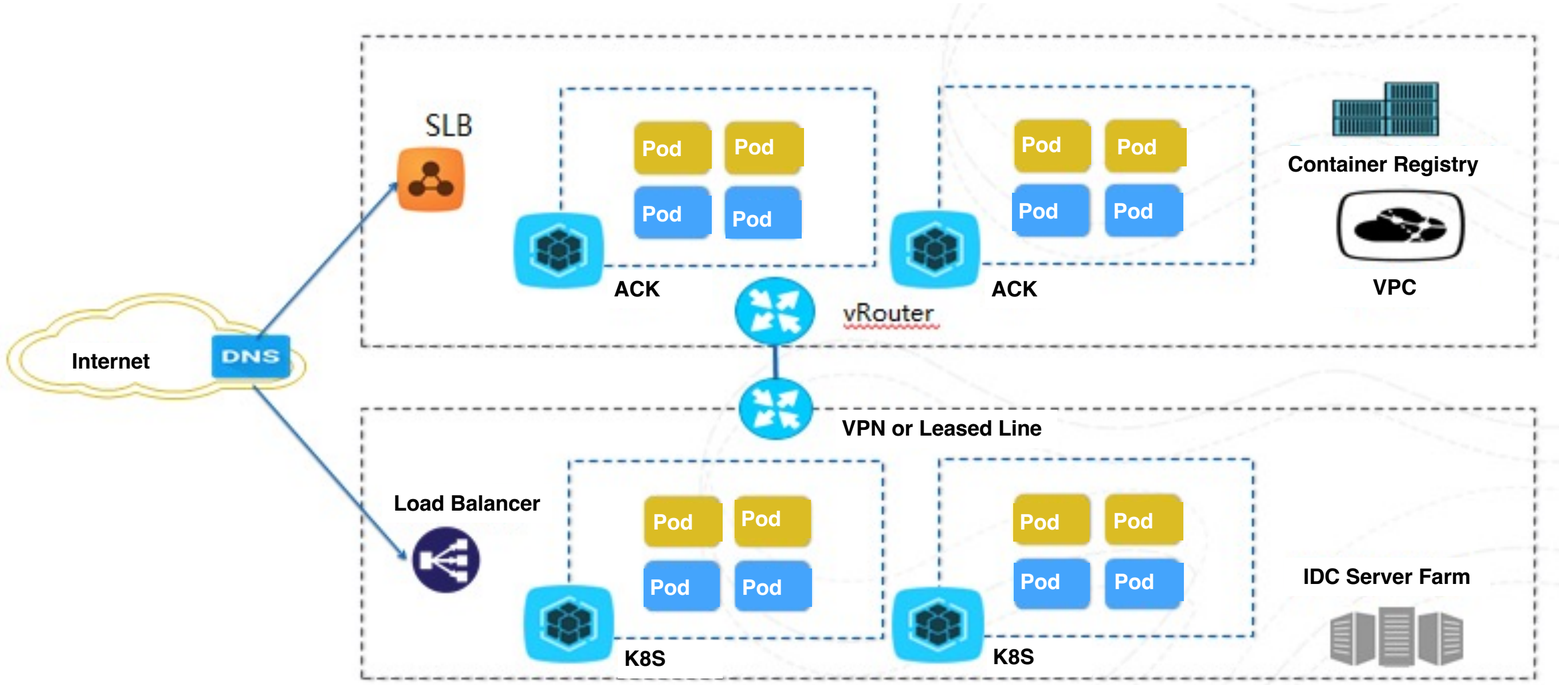
- The container technology shields the heterogeneous platforms at both ends, and enables applications to be deployed quickly and scaled automatically in the cloud to handle traffic bursts.
- The container technology simplifies the remote and local disaster tolerance process for applications based on hybrid cloud.
- Applications are developed and tested in hybrid cloud; they are produced and released in the cloud just with one click.



Hybrid Cloud Disaster Tolerance solution

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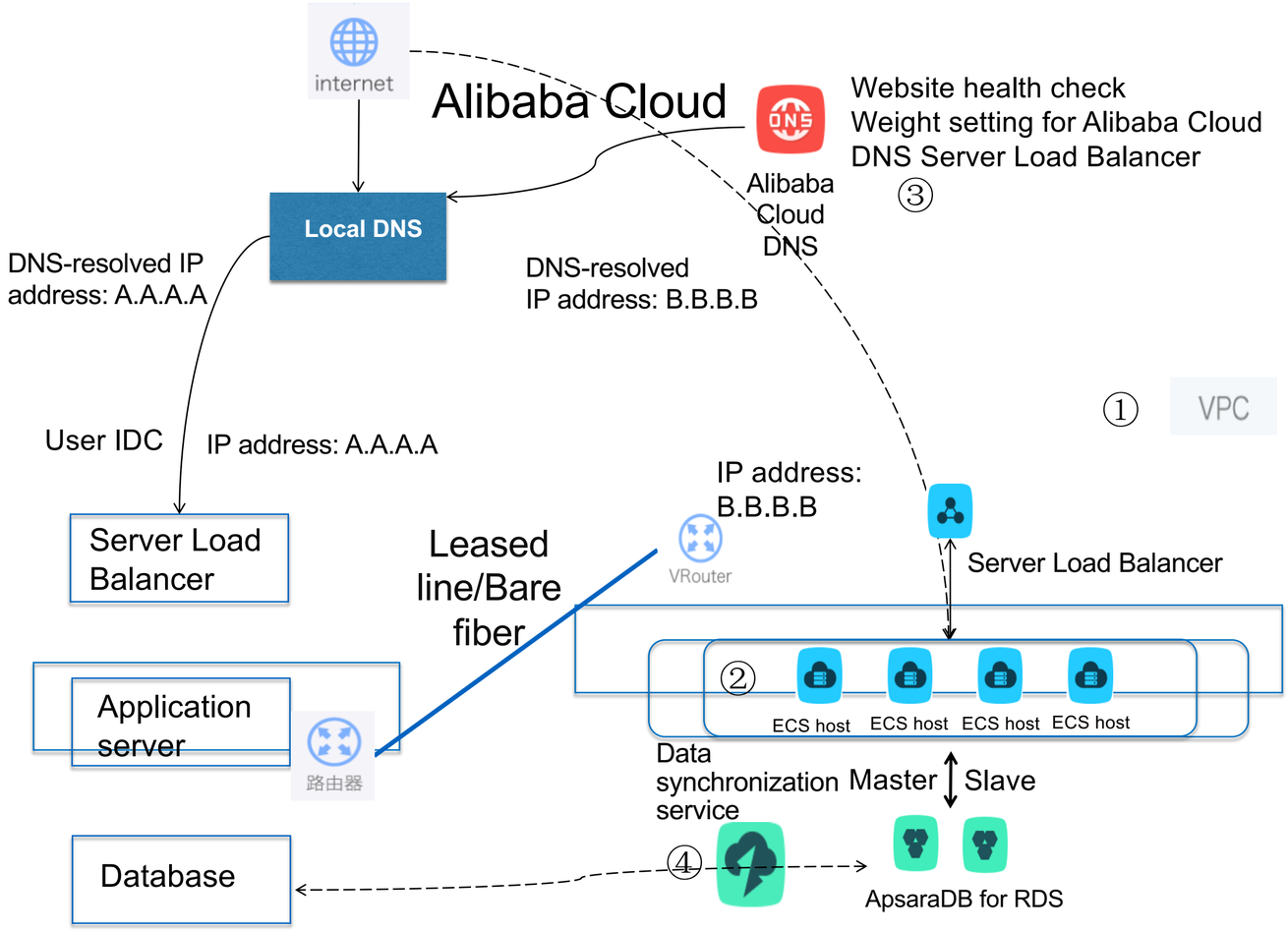
Alibaba Cloud resources are utilized to deploy core businesses at both ends of hybrid cloud. Alibaba Cloud DNS health check and the data synchronization feature of the data transmission service (DTS) are enabled. Disaster tolerance is enabled for applications in the cloud to ensure service continuity.



- Activation of VPC/ExpressConnect
- Stateless business system, non-differentiated deployment at both ends of hybrid cloud
- Settings of website health check and DNS Server Load Balancer
- Activation of DTS data synchronization

Hybrid Cloud for Big Data and Data Analytic

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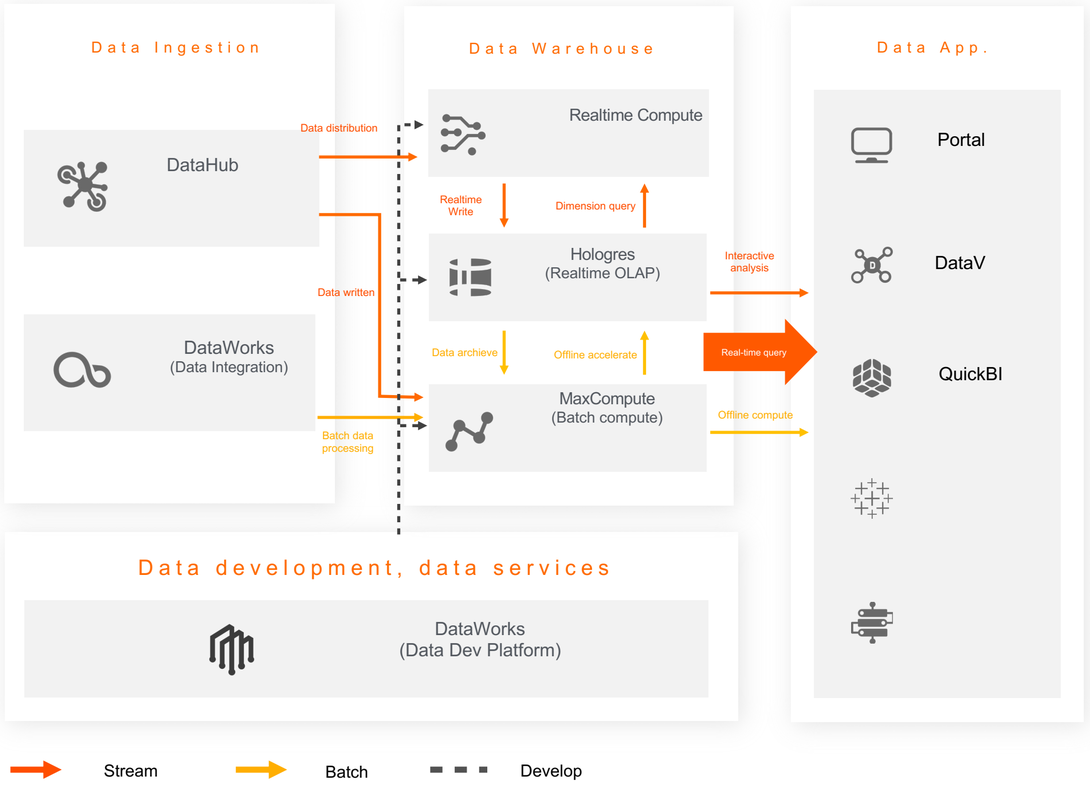
When organizations in various regions need to integrate data from different sources (data crawled from the Internet, terminal data on the Internet of Things, and users' business data) and analyze big data using Alibaba Cloud's advanced big data platform and related tools, they can rely on ExpressConnect to migrate data to the cloud and then perform big data integration and analysis after user authorization.



Bring Alibaba Cloud Capabilities Home

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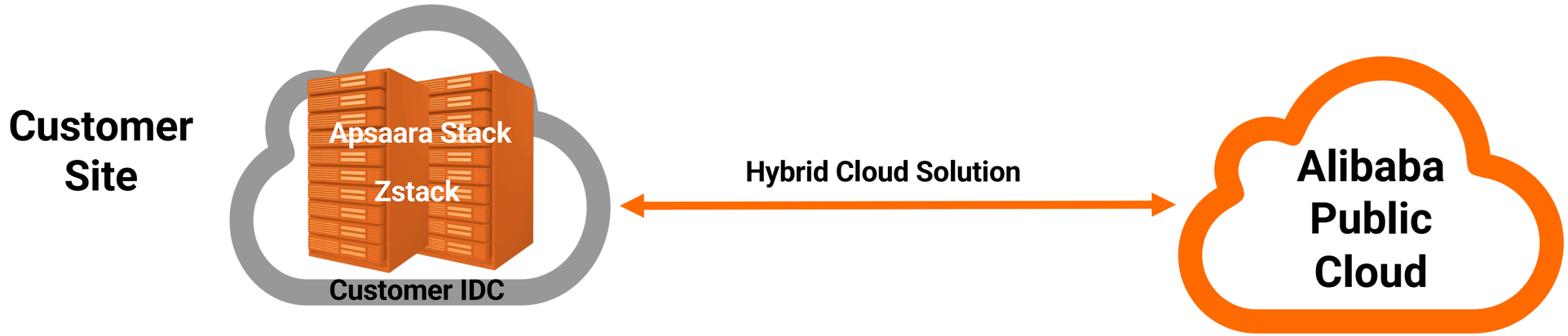

Hybrid Cloud Solution Suit For All Scenarios

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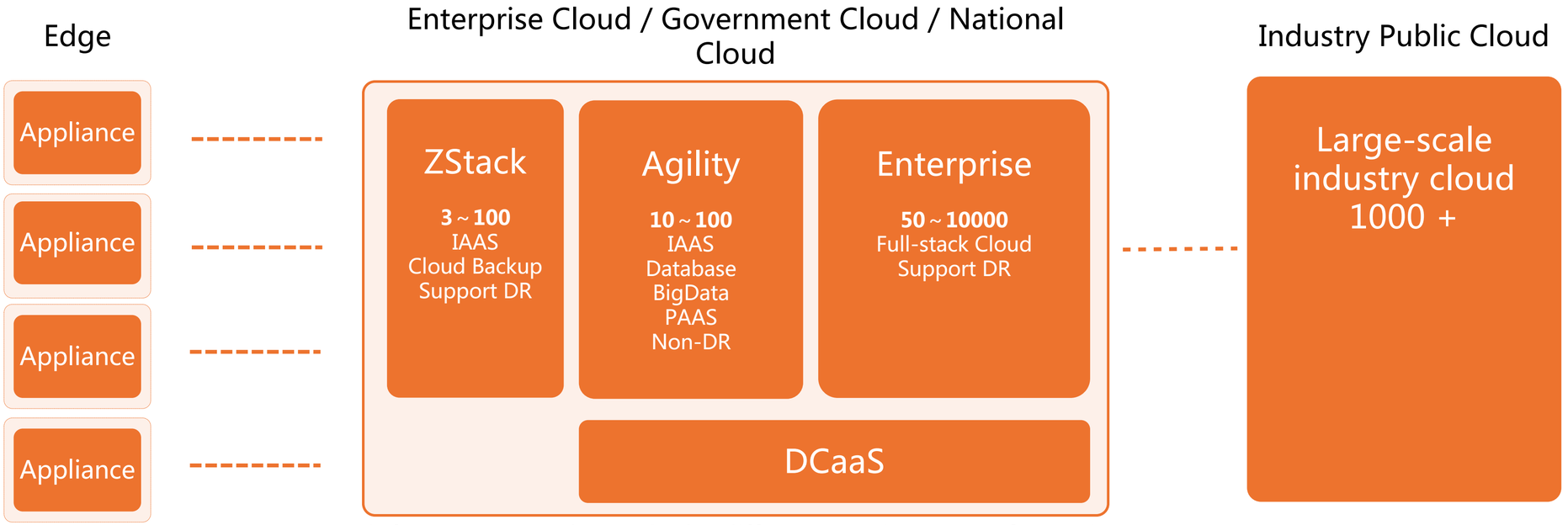
Scenarios & Solution



- IT infrastructure and comply the different requirements of capacity.

Key points

1 ZStack

90% function as VMware
50% cost as Vmware
Easy to deploy/Maintain
Higher ROI than other

2 Enterprise

BIG. large-scale industry cloud for Government /Enterprises /Carrier
ELASTIC. A full-stack cloud platform 50+ matured cloud products
Stable. Cross Geo Disaster Recovery capability
Native. Same code as Alibaba Cloud.

3 DCaaS

Rent model supported
Alibaba Managed service
Same Device as Alibaba Public Cloud
Elastic Scale

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Terima Kasih

Thank you