

**Your journey
in the cloud**

**Our Cloud services for
endless opportunity**

Cloud Infrastructure Services from
Vodafone

The future is exciting.

Ready?



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What is Cloud Infrastructure Services?

The cloud is not a technology in itself but a mechanism to deliver a range of IT services. It delivers on-demand access to a shared pool of configurable computing resources including networks, servers, storage and applications.

An effective cloud delivery ensures that a range of services can be rapidly provisioned and released with minimal management effort or service provider interaction.

The cloud has a key role in today's digital transformation effectively putting data at the centre of the business. In order to get the most from this valuable resource organisations must capture, hold and analyse data effectively.

Depending on your business' cloud maturity, you may be facing many challenges, like the lack of resources or experience, security issues, managing your cloud spend or data that you've captured. Public clouds offer easy, speedy access to IT resources as and when you need them, reducing the cost and burden of ongoing hardware and data centre or resource management and procurement.

Public clouds are also the perfect choice for enterprises starting out on their cloud journey or for companies who need to adopt a flexible and cost-efficient platform for public workload sharing. It's also ideal for IT professionals to deliver quick and scalable test or development environments.

To help your business overcome these difficulties and offer help on your journey to the cloud, Vodafone offers a choice of Cloud Services and management options so that your business can be confidently connected in the cloud.

“ 62% of public cloud adopters are using 2 or more unique cloud environments or platforms

“ 74% of enterprises describe their strategy as hybrid/multi-cloud today

/FORRESTER/



Vodafone offers multiple market-leading public clouds, supported by tools, services and connectivity that deliver on the promise and value of cloud. Wherever you are on your cloud journey, we can support you along that path and provide solutions to your business problems, reducing complexity and risk and helping you unlock data insights to drive your business forward.

“The worldwide Infrastructure-as-a-Service (IaaS) will be the fastest-growing segment of the market, forecasted to grow by 27.6% in 2019 to reach \$39.5 billion, from \$31 billion in 2018.”

/Gartner/

“More than \$1.3 trillion in IT spending will be directly or indirectly affected by the shift to cloud by 2022, a corporate ‘no-cloud’ policy will be as rare as a ‘no-internet’ policy is today.”

/Gartner/



Connecting your business to a multi-cloud world

Through our Cloud Services, we offer a choice of public and private clouds that are simple to connect, consume and operate. Public Cloud Services comprise of a large catalogue of on-demand cloud computing platforms to companies and governmental organisations. Once subscribed to, it offers a full-fledged virtual cluster of computers, databases, communication devices and innovative technologies at your disposal, always available through the internet. The public cloud is designed to connect your people, places and things to the network in a quick and efficient way. Our private cloud provides all the benefits of your virtualised on premise workloads but delivered in a secure way with underpinning cloud commercial models. These cloud models can be combined to create a highly reliable and secure hybrid-multi-cloud environment for enterprise



Microsoft Azure offered by Vodafone

- Dominant national and multinational cloud provider with industry-leading security and compliance
- Provides enlarged IaaS, PaaS and SaaS services that support different programming languages, tools and frameworks from Microsoft-specific, as well as third party software and systems
- Microsoft makes it very easy to migrate on-premises Windows apps and data to Azure, often with just migration wizards.
- Enterprise expert, has data centres in more regions globally



Amazon Web Services offered by Vodafone

- Market leader in public cloud Infrastructure-as-a-Service (IaaS) services.
- Provides a large catalogue of on-demand cloud computing platforms and storage services to individuals, companies and governments with 140 services across 19 categories
- The technology allows subscribers to have at their disposal a full-fledged virtual cluster of computers, available all the time, through the internet
- One of the first and most popular use cases for AWS is development, in particular DevOps, the methodology of rapid development, testing, deployment, and upgrade.



Alibaba Cloud

Alibaba Cloud offered by Vodafone

- Hyper-scale, cost-efficient public cloud with European data centres in Germany and the UK, offering a gateway to China and worldwide via one pane of glass
- Quick integration into existing corporate network via reliable cloud connectivity
- Available via a Vodafone provisioning portal to ensure the protection of customer credentials



Vodafone Hosted Private Cloud

- Suits large enterprise and public sector organisations with sizable and complex IT estates, especially multinationals
- Best for businesses that place high importance on data security
- Helps you comply with stringent regulation of data usage
- Assists businesses looking to consolidate public cloud deployments or adopt multi-cloud strategies
- Ideal for critical applications that demand high performance





Why choose Cloud Services offered by Vodafone?

Easy usage, convenience and support

Consuming cloud can be challenging especially when your cloud deployments are split across multiple suppliers and types of cloud. Our solution is delivered with the convenience of a single bill, local currency, single provider, single point of contact for support and escalations, fraud detection, spike usage alert, as well as simplified procurement.

Flexibility

Vodafone Cloud Services enables you to start your cloud journey on the cloud most appropriate for your needs. Select the operating system, the programming language, the web application platform, the database and any other services your business needs. Such a range of selection eases any migration process for existing applications and preserves options for building new solutions.

Cost-efficiency

With Cloud Services offered by Vodafone, you only pay for the computing power, the storage and other resources you use, freeing you from the burden of long-term contracts or upfront commitments. Our offering also includes Vodafone Cloud Assessment (for Public Clouds) to provide you with insights related to costs, security and governance, helping you manage your cloud journey more efficiently.

Reliability with global footprint and local presence

Our Cloud Services allow you to take advantage of a scalable, reliable and secure global computing infrastructure all connected to Vodafone's secure, global network. Be this for Public, Private, or traditional hosted solutions. As the largest telecommunications company, we understand your business and are able to support your growth across new places, new customers, new services and products.

Innovation capabilities

Innovation is key to Vodafone – we are the world's largest IoT provider, connecting over 74 million devices, as well as one of the leaders in the implementation and use of software-defined networking (SDN) solutions. With our Cloud Services, you can be certain that you are provided with and can connect your cloud to best-of-breed technology, supported with the right set of services.

End-to-end business solutions and services

Public cloud providers utilise an end-to-end approach to secure and harden infrastructure, including physical, operational and software measures. Besides our connectivity services, we have a broad portfolio of cloud services which allow us to support you on your journey to cloud, through a wide range of services that spans Assessment, Moving, Building, and Managing.





How we bring value to your cloud journey

Your choice of cloud

We have a broad portfolio of customer-ready solutions to address common customer business problems. The solutions follow best practices for security and high availability to ensure the highest possible service quality. Vodafone will help you find the best solution that suits your needs.

Platform Support

Direct support service from Vodafone building on the knowledge and expertise of AWS, Alibaba and Microsoft aligned to their business support package, as well as our own cloud support services, to keep your solution always on, secure and scalable.

Vodafone Cloud Assessment

The service provides a 360 view of your Public Cloud service not just on costs and optimization but a service that helps support decision making for your finance, IT operations and engineering teams. Eliminate wasted spend, maintain high availability, security and scalability while planning your capacity for the next big thing.

Vodafone Cloud Connect

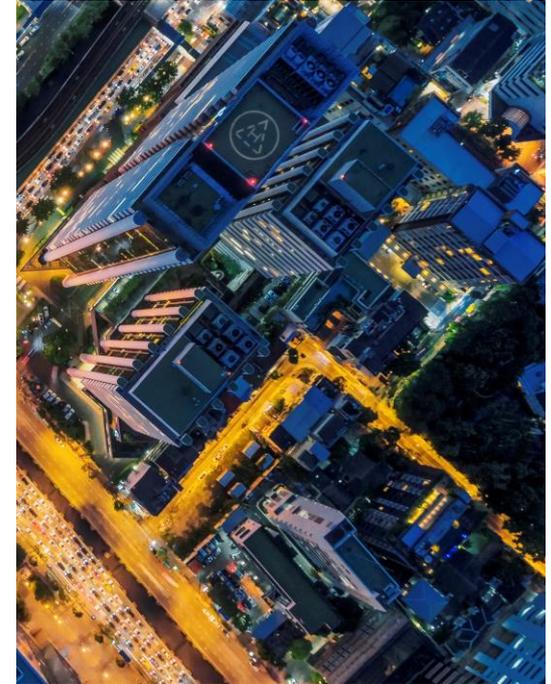
Private network connectivity can be offered via Vodafone Cloud Connect with the possibility to be complemented with a range of security options to create a multi-cloud offering with Vodafone's Private Cloud service.

Professional and Managed Services

We have a broad range of services that assess the suitability of moving to cloud, helps with the migration, and builds secure landing points, as well providing managed services to simplify your operational tasks. We will even help you rebuild your applications. These services are available across public and private cloud.

Security Services

A comprehensive portfolio of security services are available to develop a robust and secure cloud environment. Our security framework includes cloud security assessment, incident response and vulnerability testing, to maintain industry best practices and meet regulatory requirements.





Our approach to delivering your cloud

A wide portfolio of cloud services

Transforming your IT to align with a cloud world can be a challenging task, balancing the value that cloud brings, against the cost of disruption to your business. Leveraging the experience and depth of capability that Vodafone has through our own and IBM's, provides the skills to ensure a successful transformation that not only delivers on your TCO goals, but delivers on your business strategy as well.

Our IBM venture

Vodafone Business and IBM have joined forces in a venture that combines the best of global connectivity and multi-cloud to help you succeed in the digital world. You can call on IBM's world-class consulting and advisory services specific to your industry to help you achieve the digital transformation results you want. Combined with Vodafone's Network, 5G and Edge capability, this brings new opportunities for you in a digital world.

Manage

Managing all the aspects of cloud operations, across multiple clouds, requires new approaches, thinking and skill sets. We can help address any gaps to make sure you get the most from cloud.

Build

As you look to how your business transforms in a digital world we can help with DevOps services, that rapidly and quickly deliver the digital services, that underpin your strategy for growth.

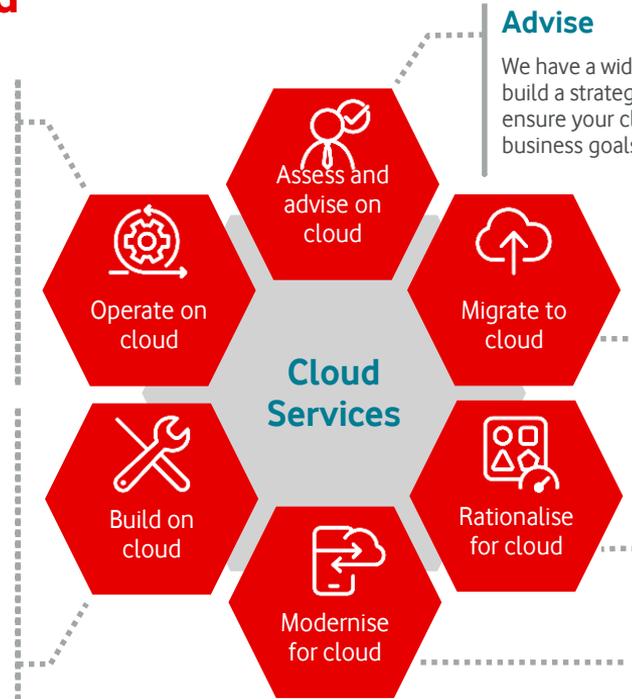
Advise

We have a wide range of services to help you build a strategy, or review your current one, to ensure your cloud journey delivers on your business goals.

Move

When it comes to moving to cloud, not everything fits. That why alongside our managed hosting capability, we can offer services to adapt your existing applications to take advantage of micro-services.

For those applications that do fit we have the tools and skills to move them rapidly and successfully to the right cloud.





A selection of our Cloud Services

Connectivity via Vodafone Cloud Connect

- **Global solution**, leveraging direct partnerships with major providers including Microsoft Azure and Amazon
- **Lower latency, consistent bandwidth, more secure** and greater availability compared to cloud access via the internet
- **Quick setup**: direct connectivity off the private IP-VPN in days
- **Flexible short-term contracts** enable you to scale capacity as needed

Multi Cloud Access

Access to a range of public and private clouds, as well as traditional Managed Hosting:

- **Microsoft Azure** offered by Vodafone – Consumption of cloud services.
- **Amazon Web Services** offered by Vodafone – Consumption of cloud services
- **Alibaba Cloud** offered by Vodafone – Consumption of cloud services
- **Vodafone Hosted Private Cloud** – Secure cloud for virtualised workloads

Advise

- **Cloud Readiness Assessment Services**, our one time assessment, establishes the current cloud maturity baseline and identifies the scope of potential changes to the current IT landscape required to move to the cloud. This report provides the basis for cloud migration as well further application transformation
- **Design and Configuration of Cloud Environments**, our service provides the complete design, build and configuration activities to deliver an operationally ready cloud environment. This service is perfect for organisations that lack the skills, organisation or capacity to deliver standardised, secure landing zones into which to migrate applications.

Move

- **Cloud Migration Services**, our intelligent and accelerated end to end migration service, delivers migration with minimum disruption to normal business activity to allow organisations to take advantage of the cloud.

Manage

- **Integrated Management Infrastructure AWS/Azure**, our service is a fully integrated managed service that allows organisations to make best use of their enterprise cloud IT infrastructure, without the need to bring in new people and adopt new support processes. We monitor, manage and maintain multiple cloud environments regardless of platforms, providers, location or services used.
- **Platform Support for Public Cloud** support services offered by Vodafone, 24/7 support with Vodafone as a single point of contact, underpinned by business level support from AWS and Microsoft.
- **Vodafone Cloud Assessment**, as part of consuming public cloud through Vodafone we provide a single bill with monthly reporting that provides:
- Finance - Reserved Instances Analysis, Departmental reporting, Amortisation reporting, Cost optimisation recommendations
- IT operations - Cost-efficiency with consistent, auditable operations, Capacity Planning

Additional Cloud Services

In addition to our cloud infrastructure services, the following capabilities are also available:

- **Security** services that encompass not only strategy review but resources to help protect and respond to cyber attacks. We provide the expertise to deliver these service on a demand basis, or as part of a managed service. We can provide both testing services and the tools to capture the current security position of your IT estate in the cloud.
- **Application development and modernisation** service to support the understanding, adaptation and re-building of your applications to allow them to be deployed into a cloud world, where they can take advantage of cloud micro-services, improving your agility and scalability. We can also provide a complete DevOps suite of services to support the development of new cloud ready applications.





Why Vodafone

Vodafone is uniquely able to offer multiple cloud offerings, supported by tools, services and connectivity. It means that whatever cloud journey you take, we can support you along that path and provide solutions to your business problems, reducing complexity and risk.

Public Cloud Services offered by Vodafone include various unique components that add up to an exclusive package helping your business make the move to the cloud:

- Easy-to-use platform and support
- Connectivity and network
- End-to-end business solutions and services
- Global footprint and local presence
- Innovation capabilities

We hope this brochure answers your questions about the Cloud Services offered by Vodafone. To find out more about how public cloud can help your business, go to our website or get in touch with your Vodafone representative.

www.vodafone.com/business



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