Microsoft Azure Stack

Optimised Hybrid Cloud

DON'T JUST MOVE TO THE CLOUD. BRING THE CLOUD TO YOU.

The benefits of public cloud computing are well-known and the technology is widely utilised. Microsoft Azure in particular commands a large and loyal customer base and provides key functionality ranging from modern development tools to high-volume data analytics.

Public cloud however does not address every business need, nor is it suitable for every use case. For some, data sovereignty, latency and security are so important to their businesses that total reliance on the public cloud is simply inappropriate.

Most companies in this situation will adopt a hybrid model. The public cloud is used to leverage hyper-scale compute resources and analytics services; for the development and testing of new projects; or for the storage and processing of large volumes of less sensitive data.

Meanwhile sensitive data and critical applications will be earmarked to be placed only in a local, regulatory approved data centre, where they will have full control over configuration, security and data residency.

However, such an arrangement risks creating inconsistencies between the two environments, and usually creates additional costs as new skillsets are required to manage them.

The answer is a hybrid infrastructure built on a reliable, shared platform and delivered through an experienced partner in Oman; Specifically, Microsoft Azure Stack from Oman Data Park.

WHAT IS MICROSOFT AZURE STACK?

Microsoft Azure Stack is an extension of Azure. It is the only way to benefit from the agility and fast-paced innovation of public Azure services that comply with your local corporate governance, security and regulatory requirements.

The combination of Microsoft Azure and Azure Stack creates the only consistent hybrid cloud in the market, enabling the creation and deployment of modern hybrid applications anywhere, without compromising data residency.

A perfect balance of flexibility and control

Data and applications can be deployed the same way across both public Azure and through a multi-tenant Azure Stack according to the business' requirements including, data sovereignty obligations, data sensitivity, security preferences or speed of access.

Organisations can now build modern applications across hybrid cloud environments, balancing the right amount of flexibility and control. Keep data in country, stretch databases with personal identification elements removed and leverage big data analytics.

Developers can meanwhile build applications using a consistent set of Azure services and DevOps processes and tools. They can then collaborate with operations to deploy to the location that best meets the business, technical and regulatory requirements, and switch between environments as necessary.

Companies can speed up new cloud revenue streams by developing applications even faster by building on application components from the Azure Marketplace, including open source tools and technologies.

HOW CAN MICROSOFT AZURE STACK HELP ME?

- Data Sovereignty

- Heightened Data Security

- Application Development

- Edge and Disconnected Solutions

USE CASE 1:
DATA SOVEREIGNTY

Use Azure Stack to guarantee the location and condition of your sensitive data.

Most businesses for whom data residency and sovereignty are major concerns are prevented from taking advantage of Azure services due to data not being stored in a single, identifiable location.

By placing your sensitive data and applications within Oman Data Park's Azure Stack, you can ensure adherence to international, national and industry-specific data privacy regulations, without compromising on access to Azure functionality. You can even build hybrid applications that span the Azure Stack and Azure cloud, but maintain data sovereignty for your specified data.

Azure Stack also enables you to run the same service across multiple countries, while meeting local data sovereignty requirements. Because the platform is consistent across both Azure cloud and Azure Stack, applications can be run identically across both environments, with sensitive data kept strictly within prescribed country borders where required.
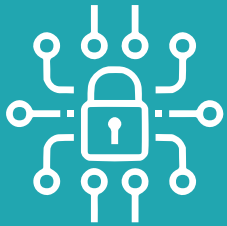
Reliable

Compliant

Secure

Multi-jurisdictional

USE CASE 2: HEIGHTENED DATA SECURITY

Protect your sensitive data with some of the most innovative security technology and frameworks available.

Every business is rightly concerned about the security of its data, and with increasing data privacy legislation, this concern is even more acute.

Azure Stack's security is based on two core Microsoft security principles:

1. **Assume Breach** – Rather than simply providing tools that prevent a breach, Azure Stack also includes measures that detect and contain any intrusions, preventing a compromise of a single area threatening the entire system.

2. **Hardened by Default** – Azure Stack is built on a secure-by-design framework. Its design follows industry best practices such as Microsoft SDL; It includes encryption at-rest and in-transit; and a military-level OS security baseline.

In addition to Microsoft's ongoing patching, businesses can also add additional security software to their on-premise Azure Stack environment to put further controls around sensitive applications and data.

Innovative	Progressive
Resilient	Pre-emptive

USE CASE 3: APPLICATION DEVELOPMENT

Combine access to the most advanced development tools with the flexibility of choice over consistent environments.

The consistency between the two platforms allows developers to build and deploy apps in either environment.

The tools, application model, self-service portal, DevOps services, extensions and APIs are all identical across Azure and Azure Stack. This allows developers to either build in Azure Stack first and then roll out globally, or take advantage of Azure's scale and advanced toolkits for testing and development and then deploy locally if preferred.

This makes application design and delivery faster, more efficient and more reliable, and allows more innovative and adventurous applications to be designed.

Consistent

Efficient

Fast

Flexible

USE CASE 4: EDGE AND DISCONNECTED SOLUTIONS

Enjoy the benefits of the cloud even where connectivity is limited.

Cloud technology has proven its worth time and again and powered remarkable progress for countless businesses, but it relies on the business being connected.

Where connectivity is constrained due to location, or where the bandwidth requirement for the business is especially high, use of Azure can be cost prohibitive or even impossible. However, by incorporating Azure Stack, the business can process large volumes of data locally with high-performance toolkits, and then aggregate in Azure for further analytics when more convenient, sharing common application logic across both.

This enables even the most remote sites, including mobile entities such as fleets, to enjoy the benefits of the cloud and Azure's applications.

Consistent

Efficient

Fast

Flexible

IN SUMMARY...

These are the most common Azure Stack use cases, but they all hinge on the same two factors – total transparency of your data's geographic and technical environment, plus unique coherence between it and public Azure, creating the only truly consistent hybrid cloud in the market.

Oman Data Park owns and manages Oman's largest network of Tier 3 datacentres with multi-tenanted deployments, and has years of experience in IaaS and PaaS, making us your ideal Hybrid Azure partner.
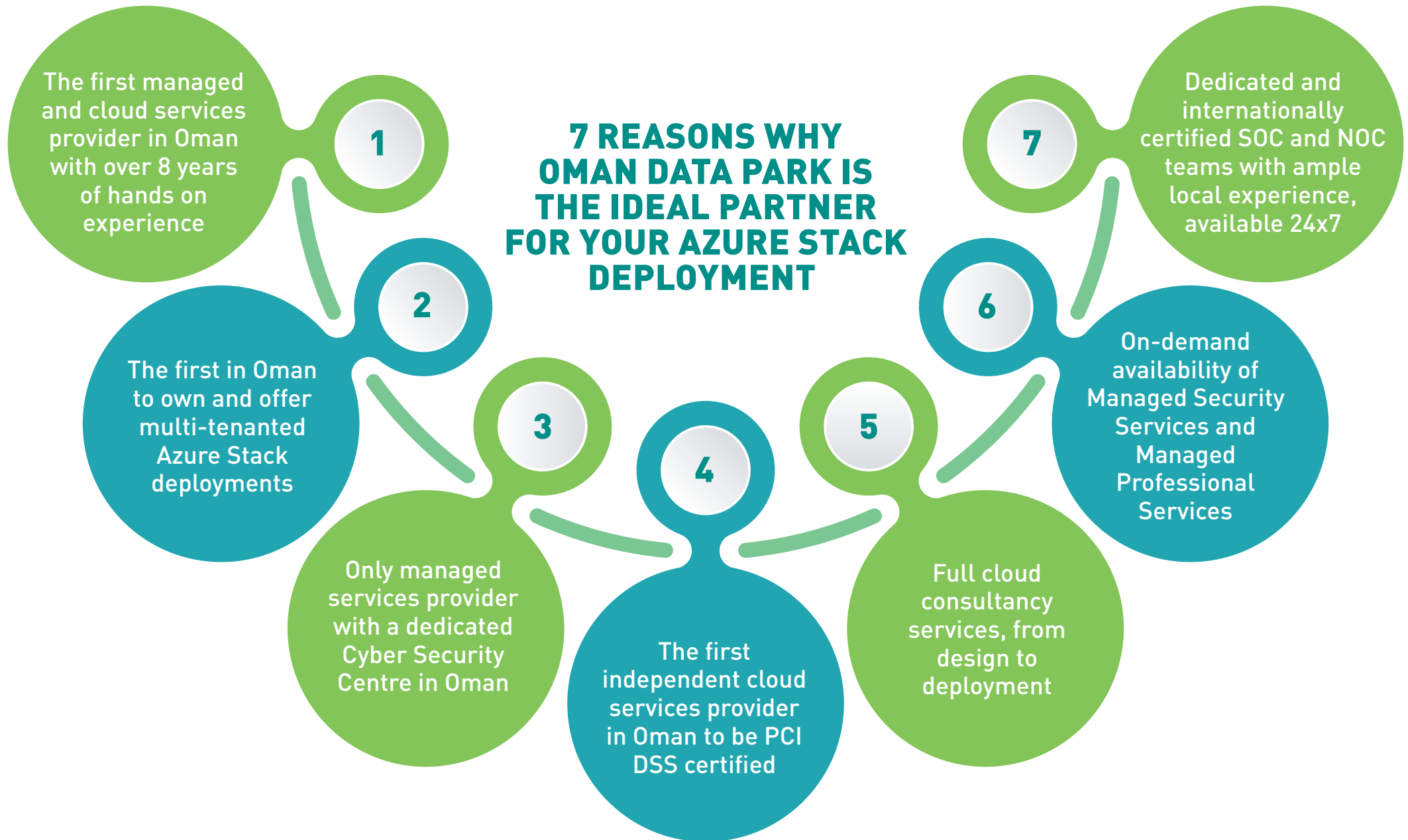
Find out more on the following pages.

OMAN DATA PARK AS A MICROSOFT AZURE STACK PARTNER

Oman Data Park has an unequalled combination of in-depth experience in cloud technology and data privacy and residency, making us perfectly positioned to support your Azure Stack deployment.

7 REASONS WHY OMAN DATA PARK IS THE IDEAL PARTNER FOR YOUR AZURE STACK DEPLOYMENT

1 The first managed and cloud services provider in Oman with over 8 years of hands on experience

2 The first in Oman to own and offer multi-tenanted Azure Stack deployments

3 Only managed services provider with a dedicated Cyber Security Centre in Oman

4 The first independent cloud services provider in Oman to be PCI DSS certified

5 Full cloud consultancy services, from design to deployment

6 On-demand availability of Managed Security Services and Managed Professional Services

7 Dedicated and internationally certified SOC and NOC teams with ample local experience, available 24x7

OUR MICROSOFT AZURE STACK SERVICE OFFERINGS

IAAS

Virtual machines (VM), VM scale sets

Rapid deployment with scaling on demand

Containers

Linux & Windows Server Containers

Networking
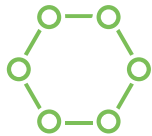
Virtual Network, Load Balancer, VPN Gateway

Storage

Blob, Tables, Queues

Key Vault

Securely Protect Application keys and secrets

PAAS

Azure Fabric

Microservices and orchestrate containers on Windows or Linux

Azure DBaaS

MS SQL and My SQL

Azure Apps Services

Web and API Apps

Azure Functions

Serverless Computing

Azure Marketplace

Ready to go Apps

WHO IS OMAN DATA PARK?

Established in 2012, Oman Data Park is the Sultanate's premier IT Managed Services provider offering superior Managed Datacentre Services and Cloud Services utilising our locally hosted Tier 3 certified datacentres. With a vision to transform the future, where ICT services will be available on demand, we serve over 500 local and international corporates ranging from large, mid-tier to small companies. Whether it's a Government, Corporate or an SME entity operating in Oman or internationally, we are fully equipped to serve them with cost effective and secure IT services offering and lead the customer's business into the future while they comfortably focus on their core business activities.

The winner of Best Digital Data Centre in the Middle East at the Telecom World Middle East Awards 2019 as well as Fortinet's Best Managed Security Services Provider (MSSP) Award 2019, We operate Oman's only Virtual Data Center – Nebula. Our newly commissioned Cyber Security Centre and the newly launched Professional Services as a Service (PSaaS) are all a part of our Opex based models offering economical pay-as-you-grow models that facilitate Infrastructure as a service (IaaS), Network as a Service (NaaS), DataCentre as a Service (DCaaS), Disaster Recovery as a Service (DRaaS), as well as Application as a Service (AaaS).

OMAN DATAPARK

ISO 20000 Certified — IT Service Management
ISO 27001 Certified — Information Security Management
PCI DSS Certified

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