

SAP on **Azure**

Simplifying the Move to Cloud

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Why Microsoft Azure?

Microsoft Azure is uniquely positioned for SAP workloads. It can support large, enterprise-class SAP HANA workloads.

Deliver global reach with compliant, high-performance services. And allow you to create innovative new solutions faster, with ground-breaking services. What's more, the built-in threat prevention makes it more secure than on-premise security.

Here's a rundown of the key features and benefits.

See beneath the surface

An SAP on Azure Assessment can help you evaluate how ready you are to migrate your workloads. It analyses your related IT infrastructure, while considering your current deployment, applications, usage, processes, and data. When you have all this, can you develop an effective strategy for migration.



The Initiative

Microsoft and SAP are working together to provide customers with a simplified move from on-premise SAP ERP to SAP S/4HANA. The initiative uses a framework of industry architectures and “market approved journeys” for a smooth, best practice and accelerated cloud-delivered service. This is an exclusive agreement between Microsoft and SAP, only for Azure.

SAP-readiness

Azure's VMs scale up to 4TB, and large instances up to 24TB. Both are SAP HANA-certified, and provide the performance SAP requires. Azure is SAP's preferred cloud provider for customer's moving to the cloud.

Privacy

Microsoft spends more than \$1 billion a year on cloud security. With more than 85 compliance certifications, it has the most compliance offerings of any public cloud provider.

Reliability

You can rely on the highest industry uptime Service Level Agreements, with 99.99% uptime SLAs for OLAP and OLTP. This includes integrated disaster recovery as part of all service packages, plus options for easy, economical storage.

Analytics

By aggregating SAP and non-SAP data, you can gain a 360° view of markets, transactions, and customers.

Capacity

With the largest SAP-certified scalability on public cloud (up to 60 TB), Azure offers the most headroom of any cloud provider.

Global Presence

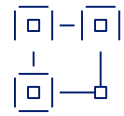
Get high-speed connectivity in 54 regions. Availability in 140 countries. And more than 1,500 peering points for express routing.



Given the current situation,

Why migrate to the cloud?

Our experience shows that the investment case for modernizing an SAP estate is built on four tenets:



Poor visibility into supply chain, customers or production

When older systems and cumbersome analytics prevent quick, accurate decision making on raw materials, products, pricing, distribution, sales channels or customers, it's time to modernize.



IT costs are weighing on budgets and can't keep up with refresh cycles

Many companies simply don't feel that datacenters, servers and networking are an effective use of capital, especially when margins are depressed.



SAP is ending support on older technology or newer technology has already been pre-paid.

A surprising number of our clients are using older unsupported technology, such as NetWeaver 7.3 or 7.4. Others have pre-paid for S/4 HANA as part of a licensing negotiation but haven't upgraded. In either situation, it's time to consider a change.



Poor systems performance, elasticity and tools inhibits growth.

Beyond a straightforward rent vs. buy decision around infrastructure, companies are finding the cloud is not only cheaper and more elastic, but vastly richer in tooling.

Why now?

Understand the benefits now,
reap the rewards sooner.

Many businesses initially consider moving their SAP systems to the cloud because of the growing challenges associated with managing them on-premise and the desire to digitize their business. While on-premise is an effective solution, the cloud can provide a wider range of benefits, both now and in the future.

Of course, we live – and work – in a world of changing priorities and turbulent economic times. So, while your initial aims might be to become more resilient, ready to adapt and thrive in future markets, now is the time to consider changing to a more agile platform.

An agile platform that allows you to evaluate new customer requirements and to set your sights on different goals in the future. Whatever's important for your business, beginning your migration today can benefit you massively in the short- and long-term.

Explore the challenges associated with on-premise, along with the benefits of moving to the cloud.



The smartest first step

Want to move to the cloud? First, you need a good understanding of your existing SAP application. This includes the underlying infrastructure of your application workload, the dependencies, and the IT resources your application is consuming. You can gain all this from a full, expert-led assessment.

Why PetaBytz?



The right partner for a quick and safe SAP migration.

Like with any cloud migration, moving your SAP workloads requires thoughtful preparation and strategy. Because of this, it's important to put your modernization in the safest hands. Which is where PetaBytz comes in.

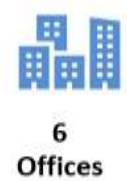


When looking for the right partner to assist with implementation, you're likely to consider the following questions:

- Do they have the right credentials?
- Do they have the right approach?
- Will they understand—and be able to give me what I really need?

Credentials

Having the right blend of credentials, processes, references, and skills is important to the team behind Microsoft Azure. Which is why they awarded us a Microsoft Expert Managed Service Provider (MSP) certification.



Certified Microsoft Expert Managed Service Provider (MSP).



Industry-leading managed services for Azure global, local, and blended delivery.

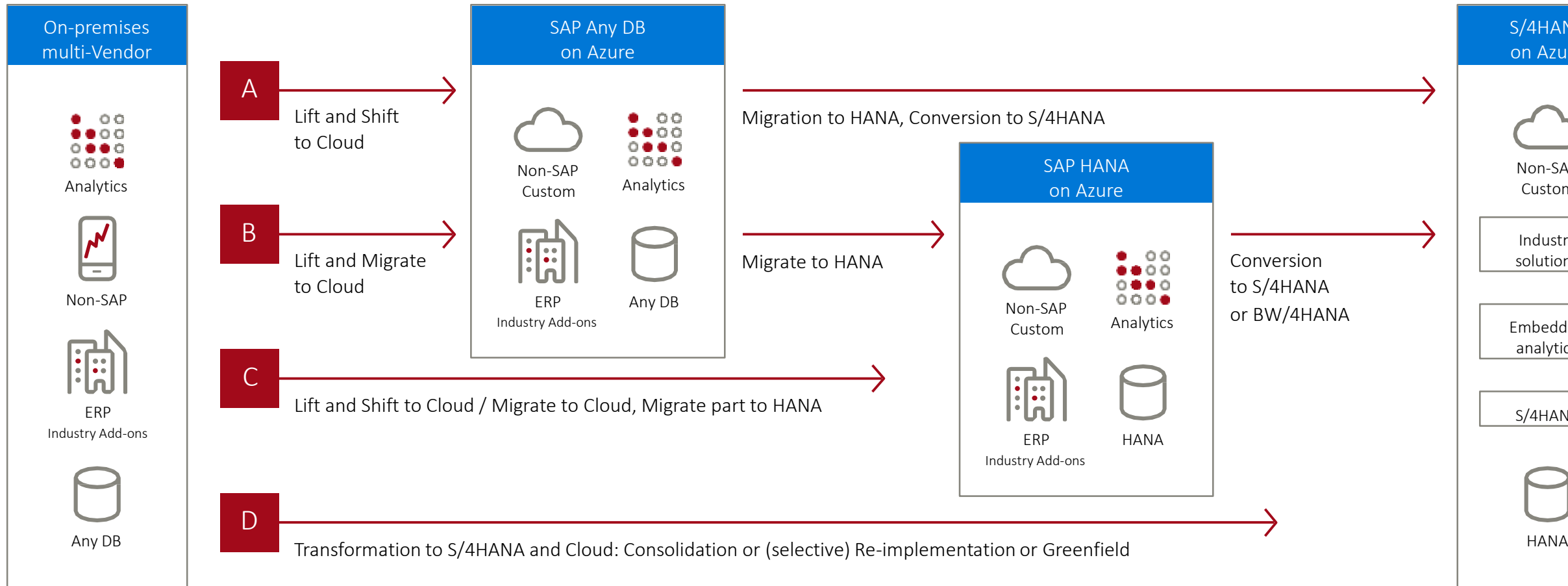


Delivering shared Public cloud on Azure technology since 2015.

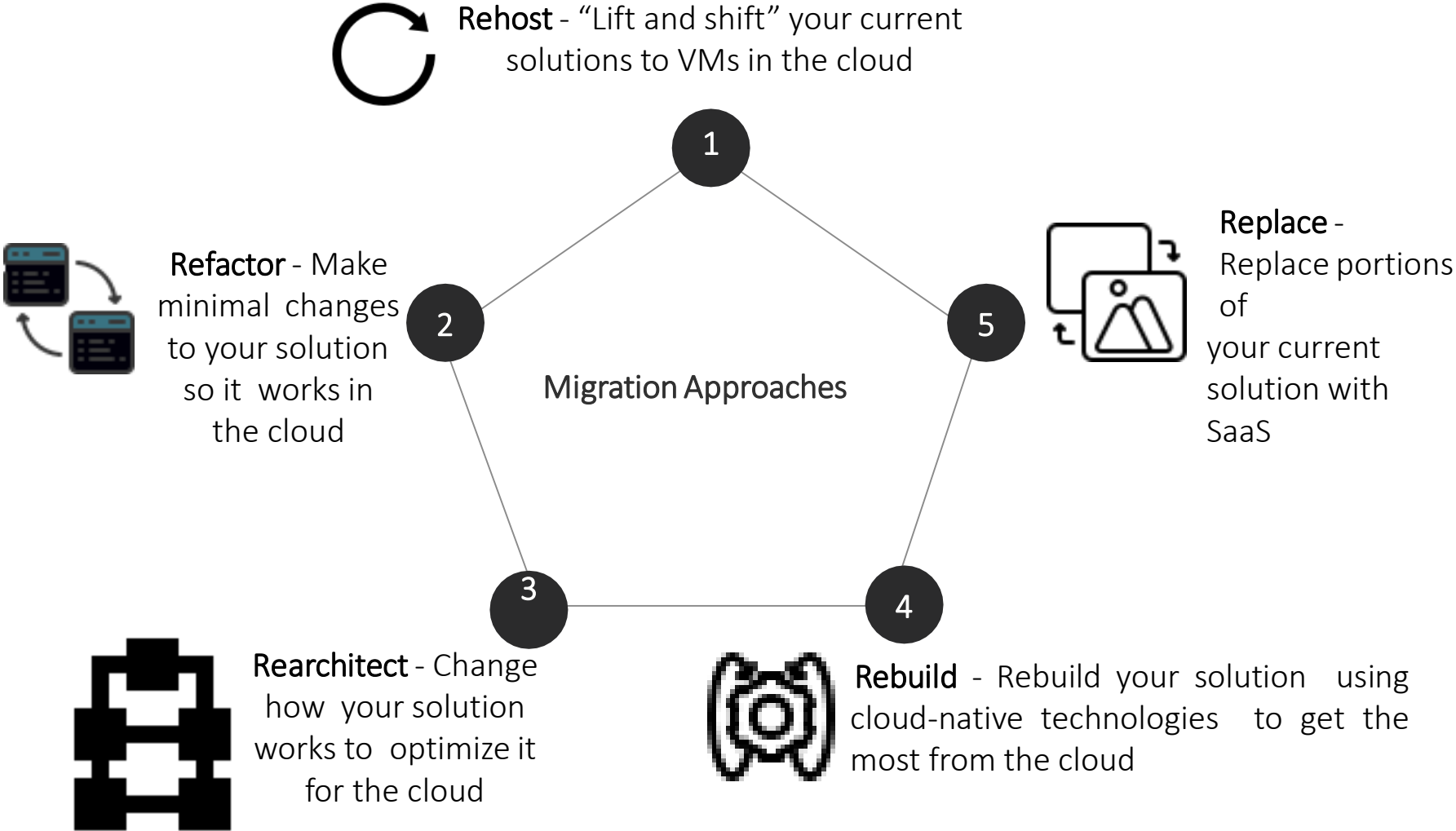
The one you choose will depend on where you are currently in the S/4HANA Cloud journey and what your business needs. Explore the routes, then take a look at the considerations.

Journey to SAP HANA and Cloud

- Consider a vertical strategy for moving low-risk systems. Low-risk, end-to-end systems let you test your strategy and gain experience with a production environment in Azure.
- Benefit from building low-business-impact systems. Consider doing this from the start. This could lower costs and help you learn about production environments.
- Consider the right time to move to highly critical systems. Schedule your move to avoid big events like product releases, financial reporting, and projects that are going live.



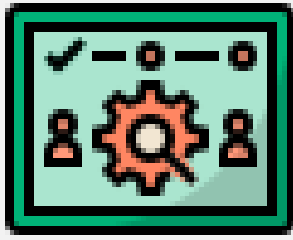
Migration Approaches



Top considerations from Microsoft and PetaBytz

Four challenges to keep front-of-mind when taking SAP to the Cloud based on an Azure migration.

1.



Assessing your SAP environment

Your smartest first step is to carry out an assessment of your current environment. Our experts can guide you through the process - and the key things you need to think about are:

Understand the complexity of your SAP workloads. This includes underlying infrastructures. Sizes of each workload and related databases (velocity, volume, and variety). And requirements for seasonal elasticity.

Remove clutter.

The cost of carrying around dead weight on the cloud adds up fast.

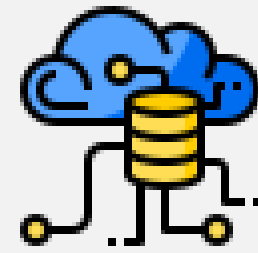
Account for Virtual Machines (VMs).

Failure to allocate enough resources can result in weekly system increases.

Determine an Azure region strategy.

Azure regions have global reach. Make sure your resources are hosted in the region or regions that provide the best connectivity.

2.



Migrating SAP to the Cloud

Determine which migration strategies can be best applied to your environment. Understanding what to move and when is key for migrating to Microsoft Azure.

There are a number of different paths you might take to migrate SAP to the Azure Cloud. You may recognize your business as either brownfield, bluefield, or greenfield environment, or a combination. That's the difference between:

- A Lift and Shift**
Taking your SAP applications over as-is onto the Azure Cloud.
- B Lift and migrate to Cloud**
Taking your SAP applications over as-is. Then transforming on the platform and upgrading to S/4HANA.
- C Lift and Shift/Migrate to Cloud and migrate part to HANA**
Taking SAP applications over to the cloud, migrating over some configurations but not the entire estate.
- D Transformation to S/4HANA and Cloud**
Building a new S/4HANA environment on Azure Cloud, migrating and populating the new field with data only.

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3.



Optimizing SAP Applications

How to make the most of your SAP applications in the cloud should be one of your top considerations. Again, talking with our experts can help you understand the smartest options. In the meantime, you should make sure the following is front-of-mind:

Azure technology and available VMs are always advancing. Achieve the best possible benefits for your business by staying up to date with new capabilities. Don't waste time on systems and data you don't need. Make sure retired systems aren't migrated. That your infrastructure inventory is accurate. And your disaster recovery plan is tested and in place.

Design for high availability in your production systems. Use Windows Server Failover Clustering, SQL Server Always On, and SAP features like logon groups, remote function call groups, and batch server groups.

Take advantage of quiet periods.
Lower costs by limiting Azure usage to times when teams are out of the office. Think nights and weekends.

4.



Managing SAP in the Cloud, safely

Protecting critical SAP systems and business data needs to remain a top priority as you evolve. Here are the top issues to remain aware of:

Be clear on public cloud compliance.
Consider all of the compliance and data security aspects of hosting data in the public cloud.

Balance security needs with troubleshooting.
In a cluster installation, it's best practice to only open the ports you need. While a somewhat open environment can help with troubleshooting, a too-open environment can be unsafe.

Capture all legal requirements from the start.
Data safety and security can be complicated. So, work with the stakeholders and data owners for each application to capture all corporate and legal compliance needs.



Microsoft Partnership & Capabilities



Partnership

Strategic partner of Microsoft



- CSP Partner
- DevOps
- Database Migration
- SAP Migration
- Cloud Migration
- Azure Virtual Desktop
- Application Modernization
- AD Connect