

IBM POWER VIRTUAL SERVER

Securely Uniting Cloud and On-Premises



Table of contents

Introduction	3
Challenges and Requirements	4
What is IBM Power Virtual Server?	5
IBM Power Virtual Server: The Benefits	6
Use Cases: Big Data and AI Applications	7
Use Cases: Migration and Operation of SAP HANA in the Cloud	8
Who is it relevant for?	9
Activities: Our service offering	10
Conclusion: Always secure with IBM Power Virtual Server	11





IBM Power Virtual Server 12





Rising IT costs, complex workloads, and the growing need for reliable availability – the challenges are complex.

Trust in a high-performance cloud infrastructure specifically developed for demanding workloads. IBM Power Virtual Server (VS) combines flexibility, scalability, and security to meet the growing requirements in daily operations.

This e-book gives you a comprehensive insight into the functions, benefits, and application areas of IBM Power Virtual Server.





Challenges and Requirements

Designed as a powerful, flexible, and secure cloud solution, IBM Power VS helps you address the following challenges:



Workloads: Increase your capacity for compute-intensive applications, such as SAP HANA, Oracle, and IBM i.



IT Costs: Reduce your hardware and maintenance costs by using the cloud.



Scalability: Respond to growing requirements faster and with more flexibility and scalability.

Reliability and Security: Trust in proven IBM technology with high availability and comprehensive protection.





What is IBM Power Virtual Server?

IBM Power VS combines the security and isolation of an on-premises system with the reliability and innovation of a virtualized environment. With IBM Power VS, you remain operational – at all times!

Support for AIX, IBM i, and Linux:

The platform supports multiple operating systems, making it particularly versatile.

Virtual instances and flexible configurations: IBM Power VS offers various configuration options to meet individual requirements, from small instances to large,

powerful setups.

Integrated security features:

The environment provides advanced security features such as encryption, access controls, and network security.

Self-service portal and APIs: Users can easily manage and automate their capironment through a

environment through a user-friendly portal or APIs.

Hybrid cloud integration:

Seamless integration with existing on-premises infrastructures and other cloud services.



The Benefits

of IBM Power Virtual Server

IBM Power Virtual Server is an IBM Infrastructure-as-a-Service offering that enables you to:

- Extend your on-premises environments to the cloud,
- Modernize your hybrid cloud infrastructures, and
- Improve your workload management.

Save costs and increase your operational efficiency.

Hourly billing with the pay-as-you-go model

IBM Power Virtual Server offers an extremely flexible and scalable billing model. With the pay-as-you-go model, you only pay for what you actually use while always remaining flexible.

The benefits of IBM Power VS at a glance

Migration to the hybrid cloud

Move and manage your workloads seamlessly between cloud and onpremises environments.

Grow at your own pace

Expand your workloads according to your own needs, billing is based on usage (pay-as-you-use).

Run mission-critical workloads

Work simultaneously on productive and non-productive environments. Use VMs to resolve issues more quickly.

Modernize Power workloads Use new services to transform your business models.

Optimize your consumption

Expand the capacity of your Power infrastructure within minutes when needed – on-premise or off-premise.



Use Cases

Big Data and AI Applications

IBM Power Virtual Server provides an ideal platform for big data analyses and AI applications that require high computing power and flexible scaling.

Companies that want to integrate machine learning, data analytics, or artificial intelligence into their business operations can use IBM Power VS to efficiently process large amounts of data and perform powerful analyses without having to invest in expensive hardware.

Benefits:

- High performance for data-intensive workloads
- Support for machine learning and AI workflows
- Cost-effective scaling and flexible billing through pay-as-you-go model







Use Cases

Migration and Operation of SAP HANA in the Cloud

Companies that use SAP HANA as a central ERP system require a high-performance and scalable infrastructure. IBM Power VS provides a reliable environment for operating and migrating SAP HANA to the cloud without compromising performance or availability. This allows for flexible scaling of workloads while reducing costs for hardware and maintenance.

Benefits:

- Scalable computing power for data-intensive SAP HANA workloads
- Rapid adaptation to increasing requirements
- High availability and disaster recovery options

These use cases demonstrate the versatility and performance of IBM Power VS in various business scenarios.



Who is it relevant for?

IBM Power VS for your business

Companies who ...

- need a consistent experience on-prem and in the cloud
- want to run their existing IBM Power workloads in the IBM cloud
- need support for moving their IBM Power environment to the IBM Cloud
- need consulting for sizing and migrating their workloads
- want to profit from the advantages of Power VS

Advantages of Power VS:

- **Migration Support:** Use the service to easily migrate your environment to the IBM Cloud.
- Enhanced Scalability and Reliability: Leverage the benefits of IBM Power VS to achieve enhanced scalability and reliability for your workloads.
- **Future-Proof Infrastructure:** Focus on your business instead of on your IT infrastructure by unsing IBM Power VS.
- **Cost-Efficiency:** Optimize costs by the advantages of moving your workloads to IBM Power VS.



Activities

Our service offering

- \checkmark Feasibility study for migrating the on-premise environment to the IBM Cloud
- ✓ Support with the definition of the required services and, if necessary, with the configuration for pricing
- ✓ Professional Services for setting up the landing zone (IBM Cloud Account, networking, VPN connection, VPC environment)
- ✓ Professional Services for setting up the Power VS environment (Power VS LPAR)
- ✓ Support for migration and commissioning
- ✓ Support in setting up backup solutions



Conclusion

Always secure with IBM Power Virtual Server

Use end-to-end security architecture – from hardware through the operating system to applications.

Resilient architecture through encrypted and isolated data for protection during both storage and use.

Regulatory compliance through adherence to common security and data protection regulations (including GDPR, ISO/IEC 27001).

Automated threat detection through real-time identification of potential security incidents.

Secure remote access and strict access capabilities through multi-factor authentication (MFA).

About PROFI Engineering Systems AG

PROFI AG is a medium-sized IT service provider headquartered in Darmstadt, Germany.

The company supports its customers in all aspects of digital transformation with a specialized portfolio of IT solutions, services, and consulting offerings focused on server and storage systems, hybrid cloud, business continuity, cyber resilience, IT automation, virtualization, digital workplace, software development, and managed services. The company's commitment is to provide the highest competence, reliability, and quality, with measurable success and direct contribution to the value creation and competitiveness of its customers.

PROFI employs over 300 people at 12 locations across Germany. For many years, the company has been among Germany's most successful IT solution providers and maintains long-term partnerships with all leading IT manufacturers.



PROFI Engineering Systems AG Otto-Röhm-Straße 18 | D-64293 Darmstadt Phone: +49 (0) 6151 8290-0 | Fax: +49 (0) 6151 8290-7712 profi@profi-ag.de | www.profi-ag.de