



INTERSPACE
INTERSPACE DOOEL Skopje

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Available service infrastructure

Interspace is a provider of first-class telecommunication, cloud and hosting services, delivered exclusively over highest quality systems. Our prime focus is to follow and control strict procedures to ensure reliable, secure and consistent services for enterprises and service providers across the globe. Leading businesses placed their long-term trust and confidence in our robust and up-to-date technologies that are ready to serve business-critical systems.

The experience in the telecommunication market dates back to the pre Internet era, when in the year 1994 a dial-up based communication platform was launched, which enabled users to access and exchange applications, news and messages. Today, Interspace operates a global cloud infrastructure with distributed IT systems in Europe (Germany, Netherlands, France, United Kingdom, Austria, Macedonia, Bulgaria), North America (USA, Canada), Asia (Japan, Singapore) and Australia. The telecommunication services are powered by an extensive fiber optic telecom network in East Europe, owned and operated by Interspace, that features fully redundant architecture backed by next-generation terabit routing gear.

Infrastructure / Services Overview Table

	Details
Partner	INTERSPACE DOOEL Skopje
Services overview	Provision of services in the fields of telecommunications, cloud, and hosting.
Services type	Elastic Cloud VPS, Cloud VPN PointConnect, Cloud VPN MultiSite, Cloud NAT Gateway, Cloud Fiber line
Target Group	Small and Medium-Sized Enterprises (SMEs), Startups & Tech Innovators, Software Developers & DevOps Teams, Public Institutions & Educational Organizations, Manufacturing, Agriculture, Smart Buildings, Energy, offering services such as prototyping, testing, and training to foster innovation and digital processes
Key Technology	Automated virtual machines running on large clusters of redundant hardware resources, featuring rapid provisioning for fast deployment of services, Disaster recovery replication to ensure service continuity, Automated backups for secure data retention, disk encryption, secure access to the cloud, for enhanced security and data protection
Status	Available to be tested and used
Requirements for Participation	Basic knowledge of system-level VPS cloud hosting, supported by user manuals for easy understanding and operation.

Technical Context and Examples

In today's digital landscape, businesses face increasing demands for scalable, high-performance infrastructure to support their applications and services. Traditional hosting solutions often struggle to meet these needs, leading to performance bottlenecks and limited flexibility.

Interspace's Elastic Cloud VPS addresses these challenges by providing virtual machines that operate on advanced cloud and networking technologies. Unlike traditional hosting, where server resources are tied to individual physical machines, Interspace Cloud operates on clusters of redundant hardware resources distributed across multiple data centers. This architecture ensures very high availability and seamless scalability.

For instance, businesses running resource-intensive applications—such as e-commerce platforms, customer relationship management (CRM) systems, or enterprise resource planning (ERP) solutions—can benefit from the dedicated resources offered by Elastic Cloud VPS. These virtual machines are powered by high-performing AMD EPYC processors and high-grade NVMe disks in RAID10 configuration, providing exceptional performance for demanding workloads.

Moreover, Interspace's Elastic Cloud VPS includes features like rapid operating system deployment, private networking, disaster recovery solutions, automatic backups, and disk encryption. These capabilities ensure that businesses can maintain operational continuity and data security, even in the face of unforeseen events.

By leveraging Interspace's Elastic Cloud VPS, organizations can overcome the limitations of traditional hosting and build a robust, scalable infrastructure that supports their growth and innovation.

Detailed Explanation of Core Concepts

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The Elastic Cloud VPS platform developed by Interspace is a robust, scalable, and high-performance infrastructure solution engineered to meet the evolving demands of modern cloud computing. Built entirely on next-generation virtualization technologies, it enables flexible provisioning, efficient resource usage, and seamless integration for business-critical applications.

At the core of Interspace's platform lies a virtualized resource management engine, which orchestrates compute, memory, and storage across redundant clusters distributed over multiple geographically separate data centers. This architecture enhances fault tolerance, availability, and load balancing. Advanced virtualization hypervisors combined with software-defined networking (SDN) allow users to isolate workloads, securely connect instances, and dynamically allocate resources based on real-time demand.

Provisioning is optimized using infrastructure-as-code (IaC) principles, allowing for rapid deployment of virtual machines—usually under one minute—with pre-configured operating systems, encrypted disks, and automatic backup policies. Users can define templates or use saved VPS images to replicate environments quickly, enabling CI/CD pipelines, test environments, and service scaling with minimal delay.

To ensure high performance, Interspace uses AMD EPYC processors with dedicated vCores and NVMe SSDs in RAID10, ensuring low-latency disk operations and high IOPS for intensive workloads. The storage system is optimized through a combination of parallel disk I/O algorithms and caching strategies, which reduce access time for frequent operations while maintaining data consistency.

Network operations benefit from dedicated bandwidth per instance (up to 2 Gbit Internet and 1 Gbit internal network) and a secure private networking layer, facilitating internal communications between cloud services or clustered applications—ideal for multi-tier architectures.

For long-term performance optimization, Interspace incorporates usage monitoring and auto-scaling logic that simulates resource allocation based on projected load scenarios.

Resource planning and cost-efficiency are enhanced by an internal optimization engine that recommends the most suitable VM sizes and pricing models based on the application's usage history and predefined performance goals. This is conceptually similar to linear programming in economics—used to determine the most cost-effective and technically efficient cloud deployment configuration.

Security and resilience are embedded into every layer—disk encryption, snapshot-based backups, and disaster recovery configurations are available by default, allowing businesses to confidently operate within regulatory frameworks like GDPR or ISO/IEC 27001.

In summary, the Interspace Elastic Cloud VPS platform is not just a hosting solution—it's an intelligent, self-adapting infrastructure system designed to support complex applications, optimize cost-performance, and ensure business continuity in today's fast-moving digital landscape..

Conclusion and Unique Value

The Elastic Cloud VPS platform developed by Interspace offers several unique advantages that can be summarized as follows:

- A flexible and scalable cloud infrastructure built on advanced virtualization and redundant multi-datacenter architecture, which helps companies to start their digital transformation
- Rapid deployment of secure, high-performance virtual machines with features like private networking, disk encryption, and automated backups, reduces resources for having IT knowledge in maintaining the IT infrastructure.
- Efficient resource allocation strategies that ensure high availability and consistent performance for demanding applications.

These capabilities make Interspace Elastic Cloud VPS an ideal foundation for hosting modern web services, enterprise applications, and development environments—empowering organizations to optimize operations, reduce downtime, and scale efficiently as their needs grow.