

BTS LABS

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BTS Olympos Cloud Platform

AI-Integrated, Scalable, & Secure Cloud Infrastructure

BTS Olympos Cloud Platform is a future-ready cloud infrastructure designed to meet the growing demands of digital transformation. Built with intelligence, scalability, and flexibility at its core, it empowers organizations to operate securely, adapt quickly, and innovate continuously in a dynamic digital world.

Bringing together automation and embedded AI capabilities, Olympos Cloud simplifies complex IT operations and accelerates time-to-value. Its architecture supports diverse workloads, streamlines application delivery, and reduces operational complexity—without locking businesses into specific vendors or technologies.

Fully aligned with local and international data regulations, Olympos Cloud ensures secure and compliant cloud operations. Its flexible deployment options deliver consistent performance across public, private, hybrid, and edge environments—helping enterprises and institutions build resilient, sovereign, and intelligent cloud strategies.

Whether managing critical business systems or scaling advanced AI services, Olympos Cloud provides a unified, adaptable foundation to grow, evolve, and lead with confidence.

Key Benefits



AI-Driven Infrastructure: Built-in AI capabilities for self-healing, optimization, and predictive maintenance.



Data Sovereignty & Compliance: Full alignment with KVKK, GDPR, and local data regulations; supports secure in-country data residency.



Vendor-Agnostic Architecture: Supports multiple hypervisors, storage types, and hardware vendors.



GPU & AI Accelerator Ready: High-performance computing for deep learning, inference, and AI training.



Autonomous Operations: Automated workload balancing, scaling, and lifecycle management.



Edge & Multi-Zone Support: Deploy lightweight zones in edge environments with full isolation and control.



Flexible Service Models: Available as Public, Private, Hybrid, or Community Cloud with marketplace integration.



Native Multitenancy: Secure resource isolation and delegated administration for complex environments.

General Features

Compute & Virtualization

- **Hypervisor-Agnostic Architecture:** Seamless integration with major hypervisors including Olympos Virtualization Platform, KVM, VMware, XCP-ng, and Citrix XenServer.
- **Dynamic Workload Management:** Automated load balancing for compute, network, and storage based on customizable policies.
- **Multi-Architecture Zone Support:** Enables mixed ARM64 and x86_64 deployments within a single zone.
- **Secure Console Access:** Browser-based VM access using noVNC, without plugins or extensions.
- **Guest OS Flexibility:** Supports a broad range of guest operating systems including Windows®, Linux®, and BSD®.

Security & Identity Management

- **Two-Factor Authentication (2FA):** Enforced globally, by domain, or per-user.
- **SAML and LDAP Integration:** With optional 2FA adapter for enterprise-grade access management.
- **Role-Based Access Control (RBAC):** Granular permission models for secure multi-user environments.
- **Delegated Administration:** Allow sub-admins to manage specific domains and resources.

Networking & Connectivity

- **Virtual Routers, Firewalls & Load Balancers:** Native integration with both software and hardware components (F5, Netscaler).
- **Advanced Routing:** Supports both static routing and BGP-based dynamic routing for automated traffic propagation.
- **Security Groups in Advanced Zones:** Instance-level security enforcement in shared networks.
- **OpenSDN / Tungsten Fabric Support:** DPDK-optimized high-performance SDN with lifecycle management, NAT, and firewall.
- **Virtual Private Cloud (VPC):** Secure, isolated cloud environments with full network control.
- **VPN Services:** End-to-end encrypted tunnels for hybrid cloud scenarios.

Monitoring & Operations

- **Real-Time Usage Metering:** Visibility into live and historical usage patterns with automated invoicing.
- **Audit Logging:** Tracks all user activities with severity levels, user IDs, and timestamps.
- **Webhook Framework:** Enables real-time integration with external systems through event-driven triggers.

General Features

Automation & AI Integration

- **AI-Powered Optimization:** Analyzes usage trends for intelligent scaling, fault prediction, and performance tuning.
- **Scheduled Lifecycle Operations:** Automate instance operations like reboot, shutdown, or restart.
- **Self-Healing Infrastructure:** Proactively detects anomalies and applies fixes with minimal human intervention.
- **Auto-Scaling:** Provides built-in auto-scaling capabilities with no need for external tools or integrations.
- **Automated AI Service Deployment:** Rapid setup of common AI services (e.g., NLP APIs, model servers, inference engines) with consistent environments and centralized updates.

Deployment Models & Edge Capabilities

- **Edge Zones:** Lightweight zones that operate without shared storage or system VMs - ideal for edge locations.
- **Multitenancy & Isolation:** Built-in tenant separation for secure enterprise deployments.
- **Flexible Marketplace Distribution:** Deploy AI models and microservices packaged via containers (Docker, Kubernetes).

Storage & Data Management

- **Multiple Storage Options:** Supports iSCSI, NFS, and Ceph RBD (with KVM) across both commodity and enterprise-grade systems.
- **Storage Tiering:** Assign VMs to specific storage types based on performance requirements.
- **Template & ISO Management:** Upload and manage OS templates and ISOs with global or per-account access.
- **Backup & Disaster Recovery:** Integrated tools for high-availability, data protection, and business continuity.
- **Secure Resource Isolation:** Ensures full segregation of memory, CPU, network, and storage between tenants.