Implementing Multi-Cloud Interoperability by means of Jelastic PaaS
What is Multi-Cloud?

Multi-Cloud != Aggregation of Services from Different Cloud Vendors

Multi-Cloud = Interoperability across Different Cloud Providers

- Multi-cloud refers to the distribution of cloud assets, software, applications, etc. across several cloud-hosting environments
- Multi-cloud architecture can utilize two or more public clouds as well as multiple private clouds
- Multi-cloud environment aims to eliminate the reliance on any single cloud provider
What is Interoperability?

Cloud interoperability is the ability of applications and services to work efficiently across different cloud platforms without the needs to change and rebuild the source code. It is emerging as an essential need in cloud strategy as companies seek to mitigate vendor lock-ins, ensure business continuity, reduce the cost and handle fluctuating workloads.
Example of Multi-Cloud Implementation

Mix infrastructure from global cloud vendors, local hosting providers and on-premise
Forms of Multi-Cloud

Multi-Cloud Architectures Used
% of all respondents

- Apps siloed on different clouds: 55%
- Data integration between clouds: 41%
- Workload mobility between clouds: 36%
- DR/Failover between clouds: 35%
- Individual apps span public and private cloud: 34%
- Workload bursting (cloud-bursting): 26%
- Intelligent workload placement: 24%
- Cloud brokering: 18%

N=750

Source: Flexera 2020 State of the Cloud Report
Top Multi-Cloud Goals

- Best of breed platform and service options: 49%
- Cost savings/optimization: 41%
- Improving disaster recovery / business continuity: 40%
- Greater platform and service flexibility: 39%
- Avoiding vendor lock-in: 37%
- Performance/latency optimization: 29%
- Improving geographical coverage: 23%
- Other: 9%

Average number of goals with multicloud: 2.7

Source: 2020 IDG Cloud Computing Survey
Multi-Cloud Adoption

Enterprise Cloud Strategy
% of enterprise respondents

- Multi-cloud: 93%
- Hybrid cloud: 87%
- Single public: 6%
- Single private: 1%
- Multiple public: 6%

N=554

Source: Flexera 2020 State of the Cloud Report
ISV Product SaaSification with Multi-Cloud Availability

- Transform software to SaaS model and provide its own Cloud
- Easy environment provisioning and infrastructure management
- Powerful open API for automating complex CI/CD
- Flexible customization and whitelabeling
- Multi-cloud deployment and interoperability
Digital Transformation across Clouds

- Wide choice of service providers in different countries, GDPR compliant
- High-availability by means of multi-region deployment
- Easy to use, easy to maintain, intuitive to learn and well documented cloud
- Scale as you like, pay only for what you really use keeping costs for development and testing environments low
Finance Projects with Multi-Region Availability

- Wide choice of service providers with different geographical location
- Multi-region and multi-cloud management
- Ease-of-use of the control panel: simple and easy but extensive enough to control instances via intuitive UI, and possibility for more advanced control via SSH connection
- No special requirements for the software itself to run it in Jelastic
- Price based on the actual usage of resources
Multi-Cloud and Multi-Datacenter in One Pack

- Unification of workloads management within a turnkey platform
- Use multiple cloud vendors to get extra resources in case of temporary burst
- Gain cost efficiency by mixing clouds with different price range
- Improve response time with geo distribution of applications
- Ensure DR and HA across multiple data centers
- Switching cloud service providers with easy data and services migration
Distributed Network of Public Cloud Service Providers

- 78 data centers
- 47 partners in production
- 36 countries covered

Partners Catalog
Dedicated Installation on Infrastructure of Your Choice

Virtual Private Cloud Hosting
Run Jelastic PaaS as VPC on the preferable hosted private cloud solutions provider

On Premise Installation
The platform can be installed as on-premise private cloud hosting services using hardware from different vendors

- AWS
- Google Cloud
- Azure
- Digital Ocean
- VMware
- servers.com
- Packet
- Dell
- OVH
- Hewlett Packard Enterprise
- Supermicro
Container-Based Platform-as-a-Service

**PaaS**
- Built-in tools for automating scaling, deployment and CI/CD
- Full application lifecycle management via UI, CLI & API
- Certified software stack templates

**CaaS**
- Optimized Kubernetes clusters
- Enhanced Docker support
- Automatic scaling of containers
- Monitoring and troubleshooting tools

**High Availability**
- Zero downtime upgrades
- Session and data replication
- Disaster recovery and migration across regions & host nodes

**Software-Defined Network**
- Virtual private networking, virtual switching and routing services
- Built-in firewall and iptables routing management

**Software-Defined Storage**
- Supports block, file and object workloads
- Gateway for integration with backup products

**Infrastructure Diversity**
- Installation on bare metal or IaaS from different cloud vendors
- Multi-cloud and multi-region deployment

**CLOUD PLATFORM**
- **PLATFORM-AS-A-SERVICE**
  - AUTOMATION
  - MANAGEMENT

**SOFTWARE-DEFINED COMPONENTS**
- NETWORK
- STORAGE

**CLUSTER INFRASTRUCTURE**
- NODE
- NODE
- NODE
Flexible Multi-Region & Multi-Cloud Management

Use several regions and distribute workloads across clouds via intuitive UI
Live Migration across Clouds without Downtime
WordPress Multi-Region Distribution for High Availability

Fully automated and asynchronous deployment. Cross-region synchronization provides protection against data center failures.
Kubernetes Hosting across Clouds

- Easily containerize and migrate existing applications
- Run hyper scalable microservices and keep them resilient to failures
- Provision the clusters across multiple clouds and on-premises with no vendor lock-in
- Get extra savings due to more efficient resource utilization
Turnkey cloud platform for speeding up development, reducing cost & complexity of infrastructure management, improving uptime & security.
Full Pack for Easy Start

- 24/7 Support and Certification
- White Labeling and Customization
- Installation & Upgrades
- Dedicated Project Manager
Thank you!

Get in touch for more details

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