Overview

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● The Ecosystem Concept & Value-added Services
● Networking Capabilities
● GÉANT Use Cases
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About CloudSigma

- **Swiss company** founded in 2009, currently with just over 50 employees.
- Leading **European IaaS provider** with a focus on flexibility & performance.
- **Direct connectivity to GÉANT.**
- **Three European cloud locations** in Zurich, Frankfurt and Warsaw, and a few more planned for 2017-2018.
- A **global location network** (Washington DC, Miami, San Jose, Honolulu, Perth, Melbourne and Manila).
Certificates

ISO 27001

ISMS
ISO/IEC 27017

ISO 27017 Control Standard

ITU-T X.900/914 Standard

ITU-T FG SG17 Cloud I-0405 Requirement Document

FedRamp 2012 Controls

Security requirements and framework of cloud-based telecommunication service environment
Next Generation Power Station for Digital Energy
Trusted by Industry Leaders

- European provider
- Year-long experience with clients with the following challenges:
  - big data workloads
  - media volumes
  - e-commerce related scalability
  - SaaS scaling up & automation
  - on-demand testing & research environments
Our Customers about us

- Neutral and flexible platform
- Higher price-performance ratio through efficient resources purchasing & improved virtual infrastructure configuration
- Excellent customer service & strict SLAs
- Agile and market-driven company culture
Neutral & Flexible Platform

- Flexible configuration of unbundled resources
- Full sole root/admin access
- Run any x86 OS and application unmodified
- Full compatibility with ‘legacy’ und new private infrastructure

“With CloudSigma, we are not subject to unrealistic bundled resources as it delivers transparent and efficient resource purchasing.” - Patrick Rodies, CTO of Preview Networks.

“Cloudsigma offered everything we needed to deploy our infrastructure 1:1 to the Cloud without a single change to the Picturepark application.” - Nick Berthet, CTO of PicturePark.
Neutral & Flexible Platform
Higher Price-Performance Ratio

"Fast networking and top performance are the main reasons for choosing CloudSigma over other providers." - Ricardo Correa, ECMWF.

"In terms of pricing, I think CloudSigma is very competitive, especially when you consider the performance. CloudSigma is for sure one of the fastest solutions available.” - Nick Berthet, CTO of PicturePark.
Excellent Customer Service & Strict SLAs

Response time of our 24/7 free technical support

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“The unprecedented support, high SLA and ability to tailor our virtual machines per our exact needs were our top reasons to choose CloudSigma as our infrastructure partner.” - Riccardo Ferrucci, CIO at Genio Group.

“We are very closely connected to CloudSigma’s technical and support staff. We always get the important answers right away. - Nick Berthet, CTO of PicturePark.
Agile & Market-driven Company Culture

- The whole product pipeline of CloudSigma is defined following our customer requirements

  “Very quickly at your end your networking guys changed the routing from what we call the ‘normal’ internet connection to the GEANT connectivity and this is how we were able to achieve the bandwidth we needed.” - Ricardo Correa, ECMWF.

- The entire work of all devops teams is organized in bi-weekly cycles

  “I really appreciate that CloudSigma tackles issues at the core and works on eliminating them at the core.” - Stepan Seycek, CTO at BOC Group.
Delivering value to your business

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The Ecosystem Model
Combining our cloud offering with the extensive capabilities of our data center partners, our customers can receive the full spectrum of infrastructure delivery.
Your Advantages

- Create powerful unified private/public infrastructure deployments and strategies
- Instantly scale-up of your physical infrastructure
- Enjoy <1ms latency between your private deployment and CloudSigma
- Utilise networking-as-a-service products to boost connectivity & security
- Mirror your private infrastructure to the cloud using the CloudSigma disaster-recovery-as-a-service
The Hybrid Cloud Infrastructure
High Availability
Disaster-Recovery-as-a-Service

- Mirror virtual or physical in-house infrastructure to the cloud
- Create an entire shadow DR environment with a complete automatic recovery workflow
- An application independent solution that works with all Windows & Linux environments
- Official release in Q2 2017
DRaaS System Component Overview

- **Orchestrator**
  - Fetch System Details and Sync Stats
  - Select Cloud location, Define sync frequency and retention, Set up automatic on-the-fly recovery

- **Agent**

- **Cloud commander**
  - Encrypted Data

**In-house infrastructure**
- Microsoft Hyper-V
- VMware

**Automated Recovery Workflow**
Supported Business Models

- Migration
- Local servers
- CloudSigma
- Backup
- Local servers
- Backup
- Local systems
- Offsite Replication
Networking Capabilities

● CloudSigma maintains carrier-neutral 10Gbps Internet pipes across multiple suppliers into the network backbone as well as direct peering lines to major Internet exchange points.

● We work with the following major connectivity carriers Level3, Cogent, SwitchNap’s LVS data center carriers, AMS-IX, Tinet, De-CIX and Telia.

● The connectivity between racks is dual 40Gbps with dual 10 Gbps internally within each rack to the node level.

● In addition, CloudSigma has a direct private peering to GÉANT.
Austrian Success Story with

The Challenge

Moving from an in-house to an IaaS-based environment, in order to respond to market requirements and offer a global and scalable online-based SaaS solutions

The Solution

flexible networking

European company
top hardware performance

excellent staff

low latency

The Change

“Trust in persistent performance, technical support you can reach in under a minute, and multiple locations, are the main reasons for choosing CloudSigma.”
The challenge: ECMWF needed to send large volumes of weather forecast data to Member States globally at exact scheduled times.

During a POC, ECMWF needed to sustain up to 3Gbps of real application data transfers from ECMWF to the CloudSigma cloud installation.

The results as reported by ECMWF are presented below:
- A single TCP stream from 1 host to 1 VM is aprox 500 Mbps
- Multiple TCP streams from 1 host to 1 VM is aprox 2 Gbps
- Multiple TCP streams from multiple host to 1 VM is aprox 3.2 Gbps
- Multiple TCP streams from multiple host to 3 VM is aprox 7 Gbps

“With CloudSigma, today we can offer to our Member States something we could not offer before.”
Ricardo Correa, ECMWF.
Offer 1: Research Departments

- **Challenge**: a combination between predictable ICT capacity and unplanned ad-hoc ICT capacity requirements from various research projects and faculties.

- **Solution**: CloudSigma offers two purchase models - subscription and pay-as-you-go burst pricing:
  - Subscriptions are the cost-efficient option used for the predictable capacity. Pay-as-you-go burst is applied every 5 minutes allowing for ad-hoc and short-term scalability.
  - Combination between subscription (for permanent workloads) and scalable on-demand cloud resources (for any on-demand research computing needed) is also possible.
Offer 2: Uni Labs

- **Challenge**: professors need a large number of limited cloud accounts, which the students can use for experiments in their IT/cloud computing classes. The accounts should be limited in capacity to avoid abuse and overbill.

- **Solution**: CloudSigma already has a similar standard offering - the trials:
  - Via a promo code the students can get an account with the exact amount of resources and a pre-installed OS required by the professor.
  - If a student want to use more resources, he will have to add funds himself, an unexpected overbill is not possible.
  - CloudSigma already works successfully with professors from Sheffield University and Dublin City University based on such a model.
Roadmap 2017

- Q4 2016: HPE Channel Partnership DE-CIX Integration
- Q1 2017: DRaaS Service Migration Services Automatic Backup
- Q2 2017: Partner Platform Launch Consistent Snapshots Object Storage
- Q3 2017: Satellite Platform Launch DNS Management Anti-DDOS Support VPN/Firewall-as-a-Service Marketplace
- Q4 2017: SAP HANA Services Launch IPv6 Support Load Balancing-as-a-Service Multi-location Management & VLANs
Thank you for your attention!

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