Nivola cloud services

SEE CEING plenary meeting

Tatsiana Hubina, CSI
Turin, 27 July 2021
CSI is one of the most important Italian tech companies.

CSI creates **digital services** for public administrations, used daily by citizen and businesses.
CSI works to create a digital and connected country. As technological partner of over 120 institutions, CSI supports the digital transformation of Italy.
Nivola CSI cloud

Nivola is a completely open source cloud platform, custom designed for public administrations according to specific safety and reliability parameters.

Nivola is available for public institutions and private parties through international projects, agreements and collaborations.
Certified data center recognised at National level by AgID, the technical agency of the Presidency of the Council of Ministers.

In case of disastrous events, a secondary data center ensures the availability of critical data and services.

CSI Data Center

- Over **5,000** servers with a virtualization rate of **94%**
- Over **2,000** services with **24/7** monitoring
- Services usability with **10 gigabit bandwidth**
- **1,000** square meters
- **4** large rooms within a security ring
Nivola CSI cloud

- certified **cloud service provider** for public administration by AgID
- member of **OpenStack** community
- infrastructure expanded with the development of **open APIs**
- interoperable and implementable services according to the **DevOps** model

- **3 availability zones**: services distributed in different logical data center, with redundant and separate power, networking and connectivity
Why choose Nivola CSI cloud?

**it is scalable**
specific IT solutions, without the complexity and expense of the underlying hardware

**it is certified**
information security, reliability, business continuity, energy efficiency, quality and safety at work

**it is fast and simple**
services activated and managed in self provisioning

**it is reliable**
different data centers in different geographic areas: applications can withstand the fall of an area or an entire data center

**it is safe**
a Security Operation Centre constantly monitors infrastructures and applications. Compliant with Italian and European Data Protection Law and GDPR

**it is compliant with Italian national plans**
rationlization of public data centers and the “Three-year Plan for IT in the Public Administration”
Nivola services

Cloud enabling

Assessment
identify the services to migrate

Planning
define the best architectures

Rationalization
optimize resources and consumption

Cloud services

Compute services
virtual servers, configurable
by combining virtual CPU, RAM memory and storage space

STaaS (Storage as a Service)
performance or low-range disk space accessible via network

DBaaS (DataBase as a Service)
fully managed open source and commercial database instances, with backup included

BaaS (Backup as a Service)
safeguard and restore data even after failures or malfunctions

Network and security
network and security technologies to build a simple, high-performance cloud

Cloud management

Virtual data center management
availability, security and privacy of information and data

Systems management
Windows or Linux according to different service levels

Monitoring
web interface to self-check the use of resources (CPU, RAM and disk)

Log management
web interface to manage applications and system logs

Assistance
all the technical support to always get the most out of Nivola cloud
## Nivola for SEE CEING

### Virtual Public Cloud + VPN EDGE private

<table>
<thead>
<tr>
<th>Service</th>
<th>YEAR 1</th>
<th>YEAR 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VM on Hypervisor</strong></td>
<td></td>
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<tr>
<td>Open Source</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hypervisor OS – 1 Vcpu</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>Hypervisor OS – 1 GB RAM</td>
<td>4</td>
<td>16</td>
</tr>
<tr>
<td>Hypervisor OS – 1 GB Storage high performance</td>
<td>20</td>
<td>100</td>
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<tr>
<td><strong>Backup as a Service</strong></td>
<td></td>
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<tr>
<td>Backup as a Service Open Source - 1 Gb Occupied (Size 1-500 GB)</td>
<td>40</td>
<td>200</td>
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<tr>
<td><strong>Network and Security Services</strong></td>
<td></td>
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<tr>
<td>Number of VPN SSL users</td>
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<td>1</td>
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<tr>
<td>Number of Web Application Firewall (WAF)</td>
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<td>1</td>
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<tr>
<td>Number of Pubblico IP</td>
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<tr>
<td><strong>Management Services</strong></td>
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<td></td>
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<tr>
<td>Managed Tenant - Standard Assistance - Working Hours</td>
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<td>1</td>
</tr>
</tbody>
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Thank you