

The Dell Technologies logo, featuring the word "DELL" in a stylized font with a diagonal line through the "E", followed by the word "Technologies".

DELL Technologies

The background is a vibrant teal color with a digital aesthetic. It features several wireframe shapes, including a hand at the bottom and three cloud-like structures above it, all composed of glowing blue lines and dots. Vertical columns of binary code (0s and 1s) are scattered across the background, creating a sense of data flow and connectivity.

Štátny cloud formou verejno-súkromného partnerstva (PPP)

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Tomáš Mydliar

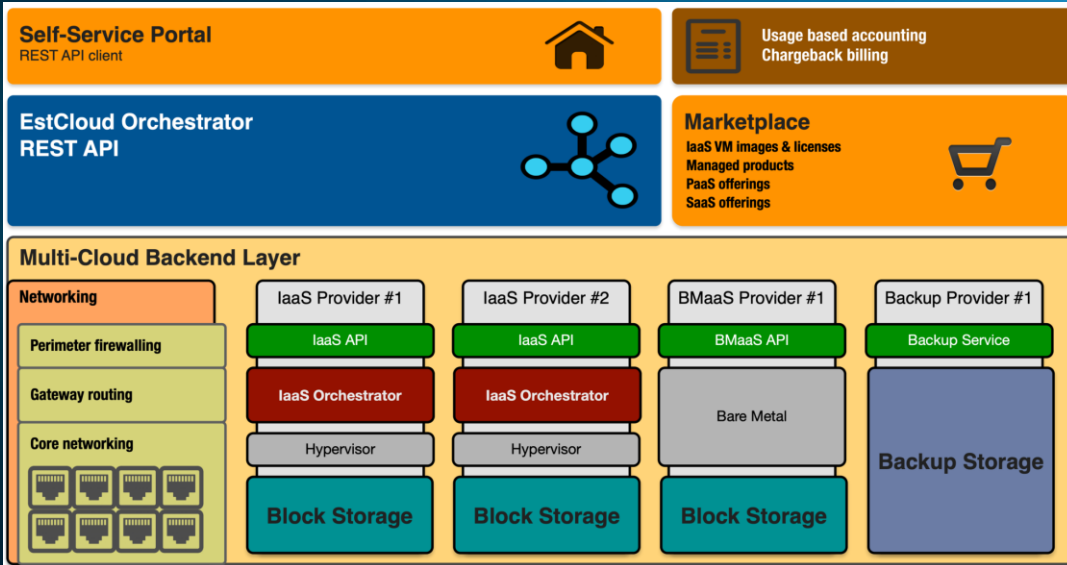
Zásadné oblasti pri budovaní štátneho cloudu



Financovanie a prevádzka formou verejno-súkromného partnerstva (PPP)

- Estónsky štátny cloud bol vybudovaný a je prevádzkovaný formou PPP
- Partnerstvo 6 spoločností
 - **RIKS** (www.riks.ee) – prenosové linky a WAN konektivita
 - **Telia** (<https://www.telia.ee/en>) – centralizovaný helpdesk
 - **OpenNode** (<http://opennodecloud.com/products/gcloud.html>) – Government Cloud Platform (GCP) – orchestrácia
 - **Cybernetika** (<https://cyber.ee/products/secure-data-exchange/x-road/>) – vrstva výmeny dát
 - **Ericsson** – líder konzorcia, projektový manažment a časť infraštruktúry (napájanie, Juniper switches, UPS-ky, servery pre záložnú lokalitu)
 - **Dell Technologies** – hlavná časť infraštruktúry, servery (PowerFlex ready nodes) a úložisko (ECS)
- Kontrola a metodika: **RIKS**
- Pravidelný bezpečnostný audit: **Ernst & Young**

Estónsky štátny cloud – Prehľad



Typy poskytovaných služieb

- **IaaS, PaaS, zálohovanie** a ďalšie
- Digitálne trhovisko na (<https://riigipilv.ee/hinnakiri>)

PRICE LIST	Calculator								
Infrastructure as a Service (IaaS)	Calculate how much the Riigivilve IaaS service costs (estimated):								
Platform as a Service (PaaS)	<table><tr><td>vCPU</td><td><input type="text" value="4"/></td></tr><tr><td>RAM (GB)</td><td><input type="text" value="8"/></td></tr><tr><td>Disk standard (GB)</td><td><input type="text" value="100"/></td></tr><tr><td>Disk ssd (GB)</td><td><input type="text" value="0"/></td></tr></table>	vCPU	<input type="text" value="4"/>	RAM (GB)	<input type="text" value="8"/>	Disk standard (GB)	<input type="text" value="100"/>	Disk ssd (GB)	<input type="text" value="0"/>
vCPU	<input type="text" value="4"/>								
RAM (GB)	<input type="text" value="8"/>								
Disk standard (GB)	<input type="text" value="100"/>								
Disk ssd (GB)	<input type="text" value="0"/>								
Backup service	<input type="button" value="Calculate!"/>								
Data storage service	1 day: 1.53 EUR								
Network services	30 days: 45.9 EUR								
Licenses	365 days: EUR 558.45								
Administrative services									
Security									
Additional services									

Financovanie

- Úvodné investície boli plne znášané súkromným sektorom
- Ich návratnosť začala plynúť až samotným používaním cloudových služieb jednotlivými OVM (na báze mesačných poplatkov)
- Aktuálne sú najväčší zákazníci *Ministry of Social Affairs, Ministry of Economic Affairs and Communications, Information System Authority a Estonian Transport Administration*
- Príjmy sa následne prerozdeľujú v rámci konzorcia podľa dohodnutého kľúča

(Eelarve summa 01.07.2017-31.12.2020 ja investeeringute summa 01.07.2017-31.12.2020)

Partner	Sisu	Lepingu väärtus	Eelarve 2020	Investeering	Investeeringu osakaal
Cybernetica	Teenus				
Dell EMC	Riistvara ja teenused				
Ericsson	Riistvara ja teenused				
RIKS	Teenused				
Telia	Teenused				
OpenNode	Teenused				
					100,00%

Prínosy

- **99%** zrýchlenie poskytovania virtuálnych serverov voči štandardnému VO (Komunálne voľby 2017)
- **24%** úspora investičných nákladov (CAPEX, Min. ŽP 2018)
- **61%** redukcia prevádzkových nákladov (OPEX, Center of Registers)
- **99,9999999%** dostupnosť (RIA prieskum a audit 2018)
- Porovnanie cien a cenový kalkulačor na digitálnom trhovisku (<https://riigipilv.ee/hinnakiri/riigipilve-hinnavordlus>)

The National Cloud Price Comparison Calculator is a tool that allows you to compare the price of existing infrastructure with the price of the National Cloud by price components.

To calculate the price comparison, we've created a downloadable Excel spreadsheet. You can enter your information in the fields marked in yellow. Please pay attention to the fields to enter data points on two separate tab (*tab*).

NATIONAL CLOUD PRICE COMPARISON CALCULATOR

Obstarávanie jednotlivými OVM

- V Estónsku postupujú v zmysle *DIRECTIVE 2014/24/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on public procurement*
- Konkrétne podľa článku 12

Article 12

Public contracts between entities within the public sector

1. A public contract awarded by a contracting authority to a legal person governed by private or public law shall fall outside the scope of this Directive where all of the following conditions are fulfilled:

- (a) the contracting authority exercises over the legal person concerned a control which is similar to that which it exercises over its own departments;
- (b) more than 80 % of the activities of the controlled legal person are carried out in the performance of tasks entrusted to it by the controlling contracting authority or by other legal persons controlled by that contracting authority; and
- (c) there is no direct private capital participation in the controlled legal person with the exception of non-controlling and non-blocking forms of private capital participation required by national legislative provisions, in conformity with the Treaties, which do not exert a decisive influence on the controlled legal person.

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