



Data-driven and proactive orchestration

www.elastisys.com

Predictive orchestration creates robust, high-performing telecommunication services

The journey towards cloudification includes both challenges and opportunities for telco providers. The virtualization of telco services with NFV/VNF increases flexibility and enables cost-efficient provisioning. One key challenge that arises in this new dynamic environment is how to meet fluctuations in service demand over time and location. More specifically, telco operators need to decide how much resources to allocate to each VNF, and where and when to deploy instances of these functions to both satisfy user demand and optimize costs.

The Elastisys cloud automation platform provides orchestration and proactive capacity management for performance critical applications. The platform has been proven for years in operation in multiple sectors. For telco providers, the Elastisys platform is a key component in an NFVI Orchestration solution and provides robust, high-performing, and cost-efficient provisioning of VNFs.

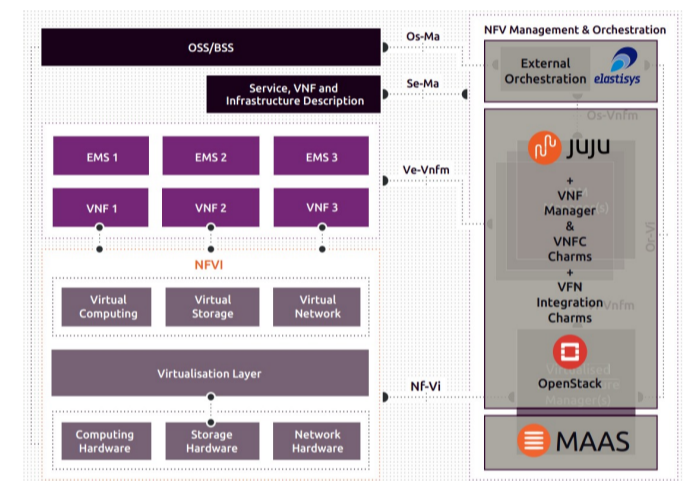
How it works

By provisioning capacity in advance, the Elastisys platform guarantees that the right amount of capacity is always available when needed, not when your operations team realize it and your customers are suffering degraded service performance. To optimize resource usage, the Elastisys platform also gracefully scales down your resources when they are no longer needed.

The Elastisys platform constantly monitors the metrics that are relevant to your services and supports all kinds of system performance metrics out-of-the-box (not only CPU) as well as application specific metrics made available through custom metric collectors. All metrics and orchestration actions can be stored, monitored and visualised through third party tools such as InfluxDB and Grafana.

Not all services are the same and there is no single autoscaling algorithm to rule them all. Every VNF has its own workload patterns (in time and location) and to manage this, the Elastisys platform is equipped with a collection of internationally patented algorithms to handle recurring load increases, unexpected load bursts and everything in between.

The Elastisys platform is independent of cloud and hypervisor technology and integrates with OpenStack and VMware as well as public clouds such as Amazon, Microsoft, and Google. An additional rendering, the Elastisys [CharmScaler](#), is available through the Canonical Juju orchestration framework where Elastisys can scale any Juju charm out-of-the-box.



Example NFV architecture with Elastisys platform as external orchestration integrated with OpenStack and Canonical Juju.

Features

- Proactive orchestration of VNFs
- Support for orchestrating based on custom metrics
- Vendor neutral and integrates with all big platforms and hypervisors

Effects

- Increased availability
- Increased responsiveness
- Cost and energy savings
- Automation of manual work

