Get started at the Edge with a Strategic Workshop

A TAILORED WORKSHOP

The most effective way to understand the positive impact that Nuvla.io can have on your business is via a qualified proof of concept (PoC).

> This is why we offer dedicated and high-quality workshops to help define your PoC.

Bringing the main stakeholders together in a tailored workshop ensures the best possible outcome. A successful PoC can then be deployed as a pilot or directly in production and scaled up with minimum risk.



Workshop

Discover

Your Edge Value

Help organisations Discover, Understand and Define how to solve their business problems.

Goal

- · Identify the business problem
- · Identify the way to solve it
- Identify "personas & extreme users"

Design

Your Edge Experience

Help organisations Validate, Design and Prototype an Edge solution which will help them solve their own challenges, learning from industry best practices.

Goal

- Identify use case architecture
- Define clear roadmap
- · Identify timeline & outcome

Contact us for more information and set up a tailored workshop

CONTACT



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An Ekinops Company





Power your edge computing journey with Nuvla.io

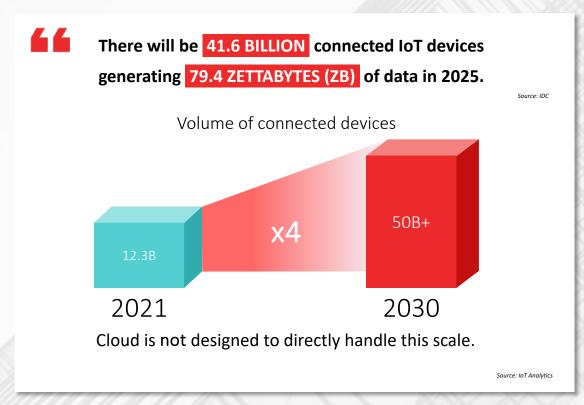
Enhancing your business with the power of edge computing has never been easier



THE NEED FOR A DIFFERENT APPROACH

The rise of IoT has led to a massive increase in data generation at the edge, forcing the current model to analyse, utilise, and store data in the cloud. The cloud is **not** designed to handle data at such a large scale.

Cloud providers advocate for a strategy that involves transmitting all data to the cloud for processing. However, with the existing data volumes and the projected increase in demand, it becomes evident that **this approach is not scalable**.



The increase in the number of devices and the corresponding surge in data generation depicted above show how critical it is to find more efficient ways to handle, process, and analyse this data while maintaining the required performance and scalability.

EDGE COMPUTING AS THE SOLUTION

Edge computing enables data processing at the source, facilitating faster and higher-volume processing, all while alleviating the strain on cloud resources. This solution is being explored by many companies, but often without proper knowledge or a sustainable strategy.

Why is Edge Computing the solution?

IOT STRAIGHT TO THE CLOUD

There are multiple drawbacks to a cloud-only strategy, just a few of which are listed here on the right. Sensors generate a tremendous amount of data, much of which is never actually processed resulting in wasted storage costs. Additionally, scaling projects to production often fails.

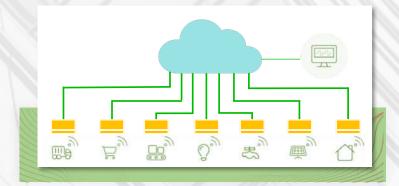




IOT THROUGH THE EDGE

Instead of moving all the data to the cloud, this approach means you process your data near its source, reduce your reliance on the networks, reduce runaway cloud costs, improve data sovereignty, avoid privacy intrusion, improve autonomy and reduce carbon emissions. The solution Is scalable, with minimum risks.





Edge + Cloud: the olution to many challenges

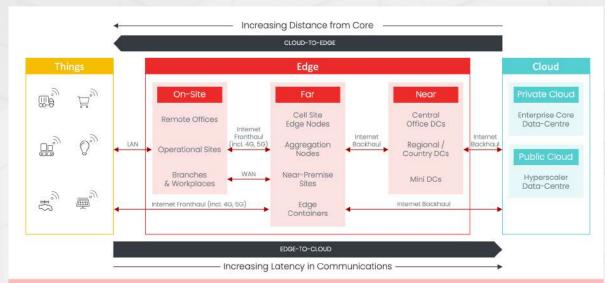
EDGE COMPUTING AND THE CLOUD CONTINUUM

Edge Computing is the pivotal intermediary space that bridges IoT devices and the cloud. This concept can be categorized into three key segments: **on-site** (on premises), the **far' edge**, and the **'near' edge**.

- **On-site edge c**omputing places processing resources in close physical proximity to IoT devices, offering control, security, and customization.
- The 'far' edge extends a bit further into the network, striking a balance between local processing and cloud capabilities.
- The 'near' edge handles data processing at the device level, ensuring real-time, low-latency decisions.

These three segments collectively define the versatile landscape of Edge Computing.

Nuvla.io covers the entire continuum, including the cloud. This means Nuvla.io customers have a single platform to manage apps across the edges and optionally the cloud(s).



This is what SixSq refers to when communicating around edge computing.

THE POWERFUL COMBINATION OF EDGE + CLOUD

Initially, analysts thought that the main driver for the adoption of edge computing would be linked to low latency.

It is now clear that while latency is an important factor, it is rarely the main adoption driver. The main catalysts to adopting edge computing are instead linked to the need for higher data autonomy and sovereignty as well as cost reduction.

Rather than approaching edge computing as a choice between Cloud and Edge, a more successful approach is to consider the two technologies as complementary.

Cloud computing alone

Loss of business in case of cloud or network failure

Potential privacy intrusion + limited control on location

High costs of storage and processing

Edge + Cloud computing

Local resilience in case of cloud or network failure

Fine control over data and locations

Low costs of storage and processing

Autonomy

overeignty

Costs

Ekinops and SixSq reflect this philosophy with Nuvla.io by giving users the greatest flexibility in terms of workload placements (applications). As companies evolve, their business identifies new needs that must be fulfilled by future-proof technologies based on open standards. SixSq understands the importance of having a flexible solution and has developed Nuvla.io with this in mind. Nuvla.io is designed to welcome your company's changes and evolutions, by providing a simple, secure and future-proof solution with unprecedented flexibility.

Nuvla.io ecosystem

EDGE COMPUTING AND THE CLOUD CONTINUUM

SixSq implements this flexible and customizable vision with Nuvla.io. The solution is composed of two main blocks: NuvlaEdge and Nuvla.io. Nuvla.io is container native, supporting both Docker and Kubernetes.

NUVLAEDGE

NuvlaEdge software can be installed on any computer (eg. single board computer, CPE, server, virtual machine, even bare metal), which then connects securely to Nuvla.io. The process can also be automated using a zero-touch provisioning strategy.

The hardware then becomes a smart edge device, securely and remotely managed from Nuvla.io. NuvlaEdge runs on most Linux-based operating systems with support for Docker and/or Kubernetes.

NUVLA.IO

Set up Nuvla.io in minutes and deploy apps in seconds. Nuvla.io works hand in hand with devices, servers and virtual machines running NuvlaEdge software. Through Nuvla.io, apps can be deployed from the marketplace or via your private app store, in seconds. Nuvla.io is a multitenant platform, including terms and conditions enabling business transactions between the customer and app vendors. Customers can also register their own apps, for free, in their own workspace.

Compatible with any hardware

NuvlaEdge

- Turns any computer into a smart edge device
- Hardware agnostic
- Connects securely to Nuvla.io for control

SaaS B2B platform

Nuvla.io

Platform

- Application centric
- Cloud neutral
- Container native
- Open, secure & agile

SOLUTION OVERVIEW

Nuvla.io



The platform



The marketplace

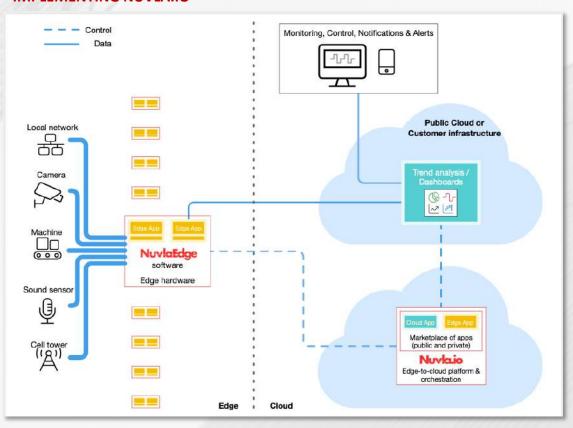
NuvlaEdge



The software

Unmatched Edge simplicity

IMPLEMENTING NUVLA.IO



The edge can be a hostile environment. We therefore need a specific solution that is secure, scalable and embraces the diversity of edge hardware and cloud interactions.

We believe our solution provides unmatched edge simplicity, without compromising on security, and enabling massive scaling.



Secure

Access control, integrity checks, zero-touch provisioning and multi-tenancy.

X

Scalable

Manage fleets of 10,000s of devices.



Everyone

All major cloud vendors. Certified for both ARM and x86 architectures.

ENABLING ENTERPRISE & SERVICE PROVIDER USE CASE DEVELOPMENT

Nuvla.io allows users to address simple and complex use cases alike, often deploying a multitude of apps, as a bouquet of solutions. Apps can be chosen independently to address your problems in the best way possible. Just like a bunch of flowers, you can pick your apps to form the bouquet that best suits your needs.

Using existing or purposefully deployed sensors and actuators, the edge can process a high flow of data, providing real-time actionable insights, reducing data flows to the cloud and delivering autonomy and sovereignty.

Available hardware can often be reused, ensuring a cost-effective solution and rapid deployment strategy.



















The Nuvla.io Marketplace

THE MARKETPLACE

The Nuvla.io marketplace of business applications contains a growing number of readymade apps, provided by domain matter experts. These apps can be deployed in 1-click, eliminating human error and improving quality.

Furthermore, users can register their own apps, creating their own private app store, mixing in commercially available apps from the marketplace.

These apps address multiple sectors that include but are not limited to logistics & shipping, retail, telecommunication, manufacturing, transport and energy.

Via Nuvla.io enterprise customers and SMBs access pay-as-you-go apps, resulting is unprecedented flexibility and a truly future-proof solution.





















& many more...

Key benefits

9 CUSTOMER BENEFITS FROM USING NUVLA.IO

Sovereignty: Nuvla.io offers its customers a unique advantage by granting them control over their data, thus providing them with sovereignty over what is frequently their most sensitive and valuable asset.

Cost savings: Unlike cloud-only or non-managed approaches, our clients can experience substantial cost savings, with potential reductions of up to 75% in some instances.

Autonomy: Nuvla.io leverages the power of edge computing, which provides unparalleled autonomy and resilience when it comes to ensuring business continuity. This technology allows businesses to process data and run applications closer to the source, reducing latency and improving performance, even in challenging or remote environments.

Sustainability: Edge computing is an environmentally responsible choice, reducing wasteful data transfers, decreasing the need for cloud storage, and enabling better management of sourcing and power resources. This, in turn, results in a lower carbon impact, supporting our customers in their efforts to align with Sustainable Development Goals (SDGs) and reduce their carbon footprint.

Sovereignty Control 100% of your sensitive data Autonomy High SLA: >99% Immune from Cloud outage Strong saving 75% cheaper than cloud + ROI: <1 year Carbon impact Lower energy consumption + Control energy source

Nuvla.io key features

KEY FEATURES

Shared infrastructure

Deploy a range of apps to leverage infrastructure investment (e.g. retail, manufacturing, transport, logistics, etc.)

Pay as-you-go

SaaS-based, frictionless deployment and pay-as-you-go model provides unprecedented flexibility

Easy to use

Simplifies daily life by removing management complexity and reducing operations risks

Simple Terms & Conditions

T&C make business enablement straightforward, avoiding need for specific contracts with app vendors

Data sovereignty

Keep control of data and ensure user privacy











