



# Monetizing Telco's Edge

Azion Edge Compute Platform

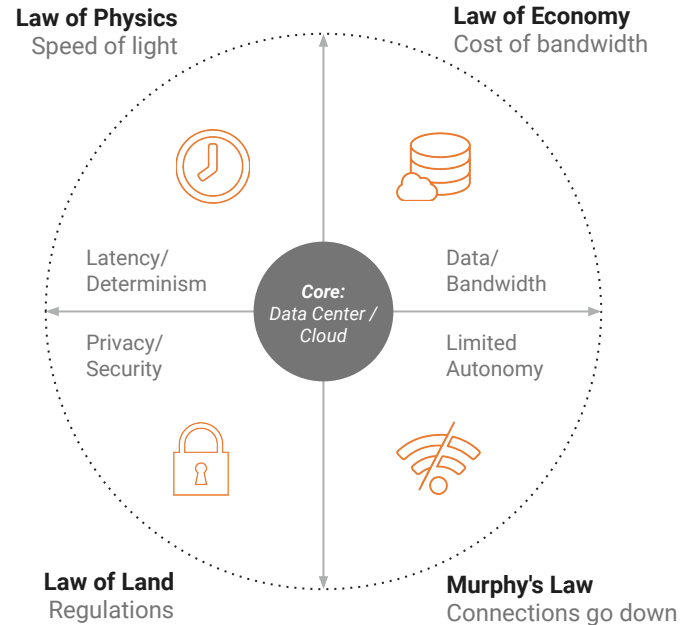


1

About Us

## The Internet is not ready for the future!

- Tens of billions of devices will be connected, moving applications closer to data.
- Innovations around IoT, AI, VR/AR and 5G requires low-latency, moving applications closer to devices.
- New software architecture emerges, with serverless, edge and multi-cloud at the core.
- Digital life & entertainment require amazing experiences (e.g communications, video, games, etc).
- Enterprise security and SD-WAN are empowered by the edge.
- Hyper-automation requires a programmable, extensible and low-latency interface to deliver real-time continuous intelligence, driving significant business opportunities.



*Edge platform to build and run low-latency applications and real-time data analysis*

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Empower Web Applications, IoT, AI, VR/AR and 5G with the experience users want and the flexibility developers expect when moving their applications to the Edge. Serverless!

**From the beginning, our goal has been to simplify how compute is done at the Edge!**



NETSHOES

 Submarino

 shoptime

Grupo 

 digimais

**+1B**

IP addresses hit our network every month

**60.000**

e-Commerces worldwide relies on Azion

**35**

of the 50 largest retailers in Latam are running Azion

**+10B**

requests to financial services delivered every month

**+20M**

students have used Azion for distance learning

 magalu

 agibank

AREZZO

 todocartões

 rico

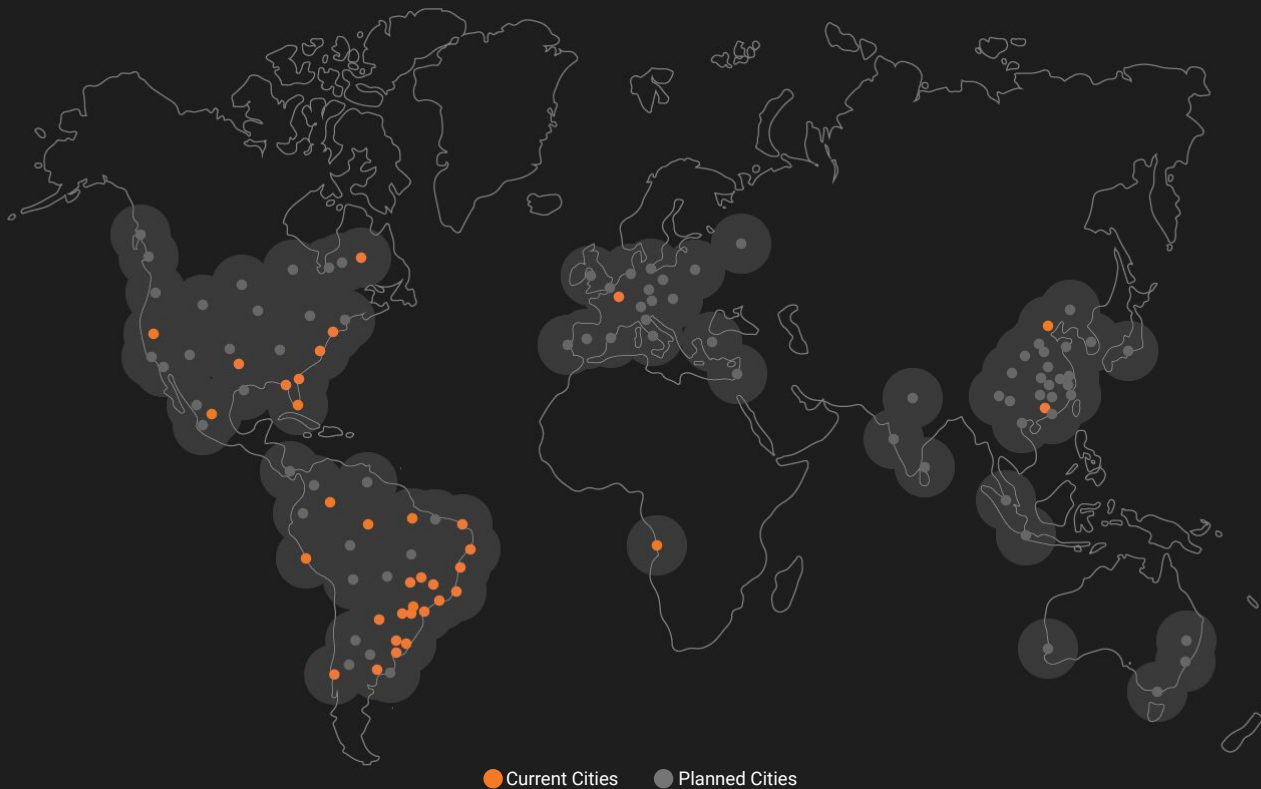
 VTEX

 NZN

UNINTER 

 LENDICO

 kroton



**40+**

PoPs Worldwide

**50ms**

to reach 90% of the Americas

**13x**

Spare capacity

**100%**

guaranteed network uptime



# Open, Smart, **Powerful**

## Open

Enterprise-grade OPEN edge platform, fully programmable, extensible, developer-friendly and hardware agnostic.

## Software Defined

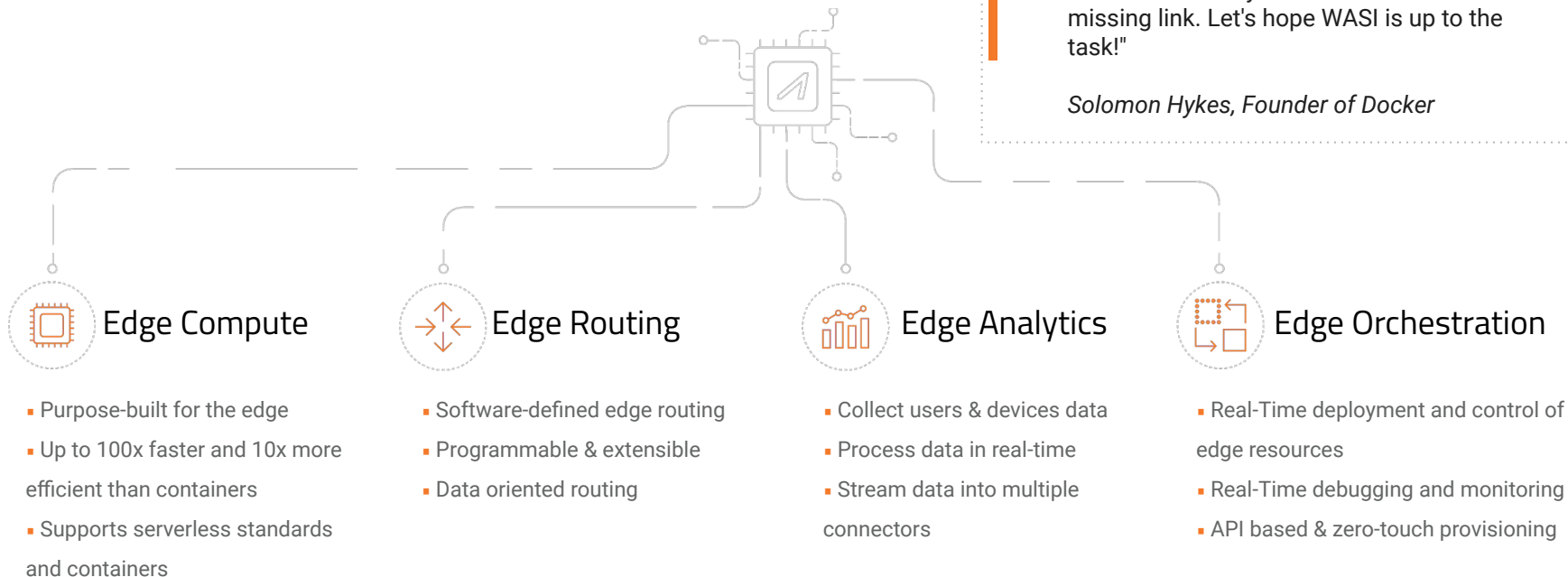
Build private, public, and hybrid edge networks: zero touch provisioning & cloud managed.

## Purposely Built

Purposely built edge compute engine for low-latency applications & real-time data analysis.

## Multilayer Security

Always-secure and visible, end-to-end encrypted, programmable and extensible layer 3-7 mitigation.





<i>Web Apps &amp; Microservices</i>	<i>Edge A.I.</i>	<i>5G</i>	<i>On-Demand NFV</i>	<i>Hardware Acceleration</i>
IoT & Analytics	Industrial Sensors	Home Devices	Retail	Healthcare
Immersive Experiences	VR/AR	Gaming	360 Video	Wearable Cognitive Assistance
Autonomous Devices	Drones	Autonomous Vehicles	Industry Robots	Medical
NFV Edge Infrastructure	Wireless (vRAN, vEPC)	Wireline (PON)	uCPE (SD-WAN)	IP Enterprise Services

2

Edge Opportunity

*By 2021, 40% of large enterprises will be integrating edge computing principles into their IT projects, up from less than 1% in 2017.*

Gartner



2029  
\$1T

2022  
\$47B

2018  
\$32B



Performance &  
Reliability

Application Delivery Controls  
Content Delivery Networks  
Wide Network Technology



Security

Web Application Firewall  
Network Layer Protection  
Distributed Denial of Service Mitigation

Areas for  
incremental growth



Serverless



IoT



5G Cellular

# 3

## Monetization for Telcos

## Monetize before it's too late

*Start monetizing the Edge for free without losing control!*

- Monetize your Edge with immediate time-to-market and new customer deployments.
- Improve and extend enterprise & consumer services that leverage the Edge and monetize the network.
- Build a long-term Edge strategy without losing control. Lead your Edge to generate revenue before cloud hyperscalers do!
- Benefit from cloud consumption models and “as-a-service” flexibility.
- Encourage a culture of rapid innovation.
- Improve your User's Experience by enabling Azion's global customers to run on your Edge.

**Marketplace**

Explore, launch and manage solutions in just a few clicks

Marketplace lets you quickly deploy software on Azion Edge Platform.

Explore for solutions

**Browse all solutions**

**Your solutions**

Filter by

- Security (7)
- Performance (5)
- Networking (1)
- Edge AI (0)
- Data (0)
- Virtual Reality (0)
- Gaming (0)
- IoT (0)

**Featured**

radware	NETACEA	perimeterx	AZION
Bot Management Radware	Bot Management Netacea	Bot Management Perimeter X	Image Optimization Azion
Bot detection and mitigation tool.	Bot detection and mitigation tool.	Predictive, behavior-based bot detection and mitigation.	Just-in-time image optimization.
Type Security	Type Security	Type Security	Type Performance

**New Releases**

AZION	AZION	AZION	AZION
Load Balancer Azion	Application Acceleration Azion	Cookie Targeting Azion	Network Layer Protection Azion
Improve reliability and availability of your content.	Protocols and response rules to accelerate your performance.	Empowering communications through cookie targeting.	Programmable security perimeter at the Edge.
Type Networking	Type Performance	Type Performance	Type Security

## Improved TCO with no lock-in

*Start monetizing the Edge without losing control. Free of charge!*

- Deploy Azion's Open Edge Platform on every Central Office or Edge Datacenter for improved user experience & new use cases!
- Starts free of charge for any consumer or internal use cases, including 5G, vEPC, CDN, etc.
- Improve TCO and leverage open, programmable, extensible, trusted and proven solutions. Edge deployments starts with 1 single rack unit!
- No lock-in. Hardware agnostic!
- Centrally managed and operated by Azion and plugable to Azion's global Edge Compute network.
- Spin up multiple, global locations in minutes. Deploy new Edge Firewalls, Edge Applications, Edge Functions and Edge Streams in seconds.

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## Business Models

- Azion Network Appliance (ANA) - Enable Telcos to deliver Azion's customers.
- Edge as a Service (Software Subscription Model per number of Edge nodes) - Enable Telcos to build customer services & internal use cases.
- Revenue Share or Azion Price for Resellers - Enable Telcos to build enterprise services.

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**AZION**

Thank you!

[contact@azion.com](mailto:contact@azion.com)

AZION

A

Edge Platform

## Edge Computing

*Azion Cells is a lightweight software framework to build and run low-latency edge applications.*

- Purpose-built for the edge, with low-overhead software footprint
- Supports AWS Lambda, OpenFass and other Serverless standards
- Multi-protocol support (HTTP, MQTT, etc)
- Up to 100x faster and 10x more efficient than containers
- Extensible and programmable modules and libraries:
  - Computing: Functions, Rules Engine, Image Processing, etc
  - Networking: Acceleration, Load Balancing, Edge Caching, etc
  - Security: Authentication & Authorization, Layer 3 to 7 Mitigation
- Multi-language support (Lua, JavaScript, GoLang, Rust, etc) on x86, arm, etc
- Deployable with zero-touch provisioning on commodity hardware and your existing hardware investments . Azion Cells run on Raspberry Pi, SD-WAN routers, network switches, super powerful server or the cloud provider of your choice!

The screenshot displays the Azion Cells Edge Functions management console. At the top, it says 'Edge Functions' and 'Hello World'. Below this, there is a 'Language:' dropdown menu set to 'Lua'. There are three tabs: 'Code', 'JSON args', and 'Testing', with 'Code' being the active tab. The code editor shows the following Lua code:

```
1 local cjson = require('cjson')
2
3 - function create_body(request, response, jsonconfig)
4   local rs = cjson.decode(response)
5   local up = cjson.decode(jsonconfig)
6   rs.response.status = up.param.http_status or 200
7   rs.response.body = up.param.body or "Hello, World!"
8   return request, cjson.encode(res)
9 end
```

Below the code editor, there is a 'Function to run:' dropdown menu set to 'create\_body'. At the bottom, there is a 'Runtime Environment:' dropdown menu set to 'Edge Application'.

VMs	Containers	Azion Cells	
Application	Application	Application	
Libraries	Libraries	Other Libraries Azion Libraries	
Language Runtime	Language Runtime	Language Runtime	
Operating System	Operating System	Operating System	Provided by Guest
Hardware (virtualized)	Hardware	Hardware	Provided by Host

	Containers	Azion Cells
<b>Memory requirement</b>	At least 35MB overhead per Container.	3MB overhead per Cell.
<b>Limits (same server)</b>	10k executing Containers.	Over 150k executing Cells; unlimited Cells deployed.
<b>Cold Start</b>	Start takes 500ms to 10s. Idle containers are typically destroyed and subsequent requests should create the container again.	Created within an existing environment, with no cold start and almost no individual overhead.
<b>Deployment complexity</b>	Super heavy and complex clusters of OpenStack, Kubernetes, Ceph, Calico, DPDK and more.	Zero-touch provisioning of lightweight edge nodes includes routing, orchestration, analytics, and computing features.
<b>Footprint</b>	Containers have smaller footprint than VMs. It provides an abstract OS for the runtime system.	Cells have smaller footprint than Containers. It provides an abstract runtime system for the function itself.
<b>Purpose</b>	Build for the Cloud, where availability of resources is pretty much guaranteed.	Build for the Edge, where availability of resources for application is not guaranteed.

## Containers

## Azion Cells

**Context switching**  
*(Preemptive scheduling is limited by CPU Cores)*

Requires at least one process per Container. Heavy overhead when switching context among dozens to thousands of containers.

One runtime per CPU core, with thousands of Cells seamlessly switching between them (Linux epoll).

**Security**

Each Container share the OS kernel and runs as an isolated group of processes that are restricted to a private root filesystem in user space.

Each Cell's memory is completely isolated and has restricted privileges, so each piece of code is protected from other untrusted or user-written code.

**Cost**

Container-based solutions cost more because they take up more memory and are slower to run.

Azion Cells is up to 100x faster and consumes 10x less memory.

**Weight**

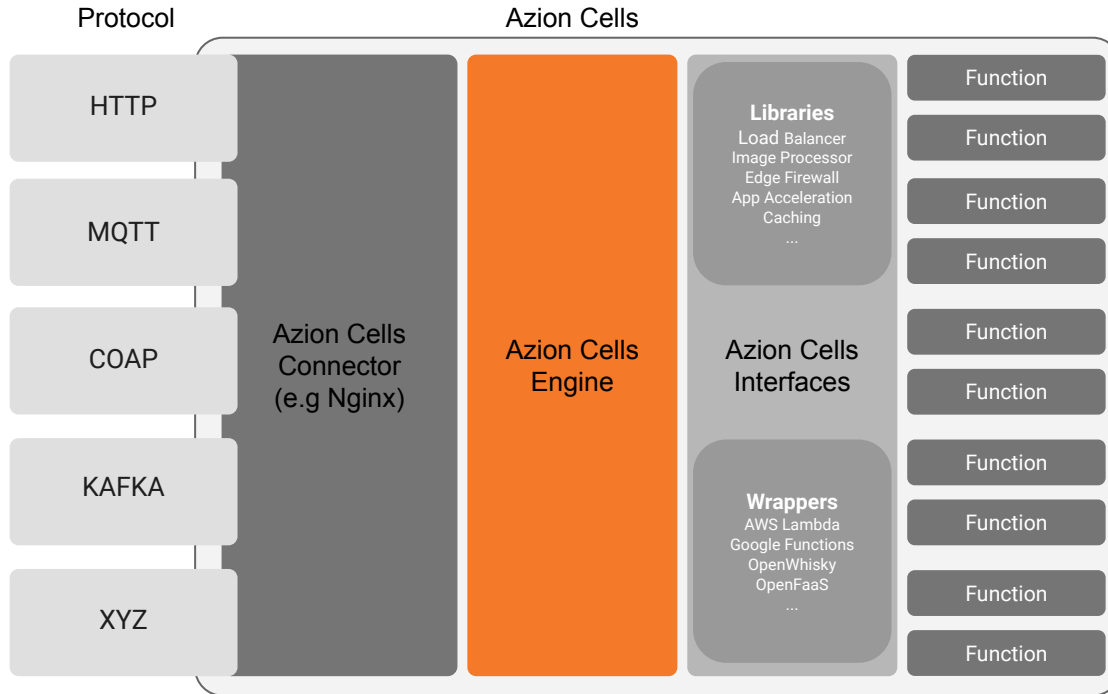
Isolation includes the application, runtime, system tools, system libraries and settings.

Isolation includes only the application.

**Scalability**

Requires more Containers running with the same application - and more memory allocated - on the same server to handle application demand.

Requests to the same Cell improves efficiency by reusing memory resources.



## Edge Routing

*Software-defined edge traffic router, aware of network conditions, purpose-built for routing devices and users to the best edge node.*

- Algorithm based software-defined edge routing
- Programmable & dynamic edge routing with Azion Rules Engine
- Real-time health check of edge nodes with Azion Edge Balancer (including bare-metal servers, VMs, network devices and others)
- Automatic DDoS & BGP Hijack detection & re-routing
- Modular and extensible (GoLang)

The screenshot shows a web interface for 'Intelligent DNS Edge Traffic Manager Test'. At the top, there are two tabs: 'Main Settings' (which is active and underlined) and 'Records'. Below the tabs is a section titled 'Zone Settings' with a sub-label 'Domain Name: \*' and an information icon. A text input field contains 'mydomain.com'. Below this is a section titled 'Nameservers' with a sub-label 'You need to change your domain's authoritative DNS servers to use Azion Intelligent DNS. See Azion's nameservers below:'. Two nameservers are listed: 'ns1.aziondns.net' and 'ns2.aziondns.com'. At the bottom of the interface, there is a toggle switch labeled 'Active' which is currently turned on.



## Edge Analytics

Engine to process and stream data from the edge into multiple types of connectors in real-time.

- Collect users & devices data in real-time (e.g latency and node availability)
- Process data in real-time for conditions monitoring, predictive failure and maintenance, performance management, process optimization and maximizing security and privacy
- Stream edge data directly into multiple connectors (e.g: stream processing frameworks, big data services, SIEMs, databases, cloud storages, HTTP, MQTT, etc)
- Enables triggers, alerts and insights in real-time



... more

### Data Streaming

## Endpoint Test

### Data

Data Source: \* ⓘ

Edge Applications

Template: \* ⓘ

Edge Applications Event Collector

Data Set: ⓘ

```
1 - {  
2   "version": "$version",  
3   "time": "$time",  
4   "client": "$client",  
5   "configuration": "$configuration",  
6   "host": "$host",  
7   "request_time": "$request_time",  
8   "request_method": "$request_method",  
9   "upstream_cache_status": "$upstream_cache_status",  
10  "status": "$status",  
11  "proxy_status": "$proxy_status",  
12  "upstream_status": "$upstream_status",  
13  "upstream_bytes_received": "$upstream_bytes_received",  
14  "scheme": "$scheme",  
15  "request_uri": "$request_uri",  
16  "sent_http_content_type": "$sent_http_content_type",  
17  "server_protocol": "$server_protocol",  
18  "request_length": "$request_length",  
19  "bytes_sent": "$bytes_sent",  
20  "upstream_connect_time": "$upstream_connect_time",  
21  "upstream_header_time": "$upstream_header_time",  
22  "upstream_response_time": "$upstream_response_time",  
23  "tcpinfo_rtt": "$tcpinfo_rtt",  
24  "remote_addr": "$remote_addr",
```

## Edge Orchestration

*Deploy, control, observ and automate edge resources in real-time.*

- Zero-touch cloud provisioning and real-time deployment and control of edge resources (e.g: edge applications)
- Real-time command-feedback for edge resources (e.g: edge caching purge, restart, etc)
- Real-time observability and monitoring of edge resources
- Super slick control panel & APIs:
  - Multi-tenant (Brands > Companies > Resellers > Clients)
  - Accounting & billing ready for as-a-service model
  - Integrated with payment gateways (e.g Stripe)
  - Multi-language support
  - Modular & secure architecture

The screenshot displays the 'Edge Node' management interface for 'My Edge Node' (ID: e6fe446789). At the top, there are several tags: 'Add tag +', 'lorem ipsum dolor si X', 'lorem ipsum dolor si X', 'lorem ipsum X', 'lorem ipsum dolor si X', and 'lorem ips...'. Below the tags are three tabs: 'Main Settings' (selected), 'Location', and 'Services'. The 'Main Settings' section includes a 'Certificate Fingerprint' with a SHA-256 hash: 11 67 F3 53 69 DD 11 8C 91 51 A3 5A C3 98 44 E3 F0 59 B4 70 38 50 C4 11 EC 8C 7F A2 2D 91 C6 4E. There is also a 'Group name' field with a dropdown menu showing 'pop-poa X'. The 'Network Type' section has two radio buttons: 'Local Network' (selected) and 'Public Network'. Below this are three toggle switches for 'Mode', 'Peering' (with subtext 'Lorem ipsum sit dolor ahmet.'), 'Transit' (with subtext 'Lorem ipsum sit dolor ahmet.'), and 'Fallback' (with subtext 'Lorem ipsum sit dolor ahmet.').

### Edge as a Service

### Software Subscription

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<b>Purpose</b>	Run applications on Azion's highly distributed edge network, with over 50 edge computing POPs worldwide, fully owned and managed by Azion.	Run applications on Private edge networks, deployed in the cloud, on premises (datacenter, office branches, stores, etc) or remote devices.
<b>Price</b>	Pay-as-you-go per volume of data transferred, requests and compute time.	Pay-as-you-go per instance (number of edge nodes running).
<b>Discount</b>	Per region, volume, commitment and payment (monthly vs yearly).	Number of instances, use cases and payment (monthly vs yearly).
<b>Orchestration</b>	Cloud-managed.	Cloud-managed with zero-touch provisioning.



Products

## Edge Application Modules

### Edge Function

Run event-driven serverless applications at the edge of the network, closer to your users.

### Image Processor

Just-in-time image processing to enhance user experience and reduce data transfer and storage costs.

### Load Balancer

Balance the load to your origin and improve the reliability and availability of your workloads.

### Application Acceleration

Protocol optimization and advanced request and response rules to improve application performance at the edge of the network.

### Edge Caching

Reduce application's backend load and accelerate content delivery by caching data at the edge of the network, closer to your users.

## Edge Functions

### Hello World

Language: \* ⓘ

Lua

Code JSON args Testing

```
1 local cjson = require("cjson")
2
3 - function create_body(request, response, jsonconfig)
4   local rs = cjson.decode(response)
5   local up = cjson.decode(jsonconfig)
6   rs.response.status = up.param.http_status or 200
7   rs.response.body = up.param.body or "Hello, World!"
8   return request, cjson.encode(res)
9 end
```

Function to run: \* ⓘ

create\_body

Runtime Environment: \* ⓘ

Edge Application

## Edge Firewall Modules

### Edge Function

Run event-driven serverless applications at the edge of the network, closer to your users.

### Network Layer Protection

A programmable security perimeter at the edge of the network for inbound and outbound traffic.

### Web Application Firewall

Secure your web application from OWASP TOP 10 threats to complex zero-day attacks.

### DDoS Protection

Mitigate the largest and most complex network and application-layer DDoS attacks.

### Bot Manager

Leverage third party Bot Management solutions to protect your valuable data and applications against automated attacks at the edge of the network.

The screenshot displays the 'Edge Firewall' configuration page. At the top, there is a title 'Edge Firewall' and a text input field for 'Name for Edge Firewall'. Below this, there are three tabs: 'Main Settings' (selected), 'Functions', and 'Rules Engine'. A 'Domains' section with a dropdown menu is visible. The 'Edge Firewall Modules' section lists several modules, each with a description and a toggle switch:

- Network Layer Protection**: Protect your applications setting up network-based rules on the fly to get high security and performance from the edge. (Toggle: ON)
- Web Application Firewall**: Protect your software businesses needs against vulnerabilities that attackers can use to infiltrate, do frauds or clones. (Toggle: ON)
- Bot Manager**: Lets you categorize and manage bot traffic and keep your backend stress-free. (Toggle: ON)
- Edge Functions**: Edge Functions lets you run single-purpose functions, closer to the viewer, to customize how to handle the request. (Toggle: ON)

At the bottom of the page, there is an 'Active' toggle switch, which is currently turned ON.

## Edge Routing Modules

### Intelligent DNS

A data oriented & programmable DNS service to ensure users and devices are routed to the best edge node.

### Edge Traffic Router

Build a private or hybrid network with powerful Software-Defined Routing on top of your own bare-metal servers or VMs.

#### Intelligent DNS

## Edge Traffic Manager Test

[Main Settings](#) [Records](#)

### Zone Settings

Domain Name: \* ⓘ

mydomain.com

### Nameservers

You need to change your domain's authoritative DNS servers to use Azion Intelligent DNS.  
See Azion's nameservers below:

ns1.aziondns.net  
ns2.aziondns.com

Active

## Edge Analytics Modules

### Data Streaming

Stream edge data directly into multiple backend connectors (e.g: stream processing frameworks, big data services, SIEMs, databases, cloud storages, HTTP, MQTT, etc).

### Edge Pulse

Real User Monitoring (RUM) with granular visibility into how end users and devices perceive performance and availability.

### Real-Time Metrics

Powerful insights into your usage of Azion products in real-time.

### Real-Time Events

In-depth debugging of your usage of Azion products in real-time.

#### Data Streaming

### Endpoint Test

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11  "proxy_status": "$proxy_status",
12  "upstream_status": "$upstream_status",
13  "upstream_bytes_received": "$upstream_bytes_received",
14  "scheme": "$scheme",
15  "request_uri": "$request_uri",
16  "sent_http_content_type": "$sent_http_content_type",
17  "server_protocol": "$server_protocol",
18  "request_length": "$request_length",
19  "bytes_sent": "$bytes_sent",
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21  "upstream_header_time": "$upstream_header_time",
22  "upstream_response_time": "$upstream_response_time",
23  "tcpinfo_rtt": "$tcpinfo_rtt",
24  "remote_addr": "$remote_addr",
```



## Edge Orchestration Modules

### Real-Time Manager

Easily provision, manage and automate customer & reseller accounts, users and permissions.

### Edge Orchestrator

Deploy and update Edge Firewalls, Edge Applications, Edge Functions, Edge Streams, and other Edge Services in real-time.

### Edge Nodes

Deploy and update Edge Firewalls, Edge Applications, Edge Functions, Edge Streams, and other Edge Services in real-time.

## Real-Time Events <sup>BETA</sup>

Data Source:

Edge Applications

Last 15 minutes

Filter by:

Type your search here (e.g. status:200 AND scheme:https)

Refresh

Last update at: 02 August, 2019, 12:08:13

Time

Log Body

▲ 02 August, 2019, 12:08:02

geop.country\_code3: BR geop.country\_code2: BR http\_user\_agent: Mozilla/like Gecko) Version/12.1.2 Mobile/15E148 Safari/604.1 geop.country\_name: ssl\_protocol: TLSv1.2 geop.asn: 61912 geop.latitude: -18.3525 geop.

Table

bytes_sent	159
client_id	2747t
geop.as_org	UAILINK LTDA
geop.asn	61912
geop.city_name	Corinto
geop.continent_code	SA
geop.country_code2	BR
geop.country_code3	BR
geop.country_name	Brazil
geop.ip	177.152.52.222

## Marketplace

Azion Marketplace is a digital catalog for independent software vendors that makes it easy to find, buy and deploy software that runs on the Edge.

- Easy for customers to find, buy, deploy and manage edge computing solutions in minutes.
- Choose from a variety of applications for Web, IoT, Edge A.I, 5G and more.
- Leverage 3rd party and open source softwares to accelerate go-to-market and run your workloads at the edge.
- Enable revenue streams for integrators and consulting services
- Price is defined on top of Azion's edge resources consumed (pay-as-you-go model) or number of private edge nodes (software subscription model).

**Note: Bessemer expects the cloud to penetrate 50% of enterprise software by 2025.**

The screenshot displays the Azion Marketplace interface. At the top, the word "Marketplace" is written in a grey box. Below it, a banner features the text "Explore, launch and manage solutions in just a few clicks" and "Marketplace lets you quickly deploy software on Azion Edge Platform." A search bar with the placeholder "Explore for solutions" is also visible. The main content area is divided into two sections: "Your solutions" and "New Releases".

**Your solutions**

Filter by

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- Performance (5)
- Networking (1)
- Edge AI (0)
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Type Networking	Type Performance	Type Performance	Type Security

## Solutions Lab

Develop your Edge strategy with the engineers who know it best. We built the Azion Edge Computing Platform; now we can help you build on top of it to achieve the performance, security and reliability your business needs.

- Integration Services
- Go Live Support
- Best Practices Review
- Training
- Managed Edge Applications

## Support

Engineer to Engineer support starts on the first touch point and is driven by your success - that's how serious we are about supporting your mission-critical services. Choose between the following support plans:

- Developers
- Enterprise
- Mission-Critical

## Technical Account Management

Work with an Azion expert to help build your roadmap for long-term success. Our engineers are ready to provide a wide range of technical expertise on every Azion product.

