



Platform for building  
a secure private cloud



# Astra Cloud

Secure private cloud platform to provide services within your organization or for your customer



## Software complex with a single license

Save time, budget and reduce administrative overhead



## Secure cloud environment on your own resources

Full control over the data, reduced risks of data leak, compliance with security requirements



## Consolidate and virtualize your IT infrastructure

Increase efficiency of company resource usage and reduce TCO



## Access cloud services via self-service portal

Accelerate deployment of new services, reduce the workload on IT department

# Platform is suitable for



## Government authorities

- Compliance with regulatory requirements for certification
- Build, operate and provide government services based on Astra Infrastructure Cloud platform



## Large and medium-sized organizations, private cloud providers

- Computing resources consolidation
- Provide secured services
- Replace foreign or Open Source solutions



## Cloud service providers

- Provide secure services to external organizations
- Possibility of cloud platform certification
- Flexible integration options (technology and sales)

# Benefits



## Security

Unique and certified security tools integrated in operating system based on Astra Linux Special Edition



## Modularity

Flexible platform customization and the ability to integrate into existing infrastructure



## Scalability

Rapid expansion of cloud resources



## High availability and disaster tolerance

Deploy and operate platform in multiple data centers (Federation mode)



## Control services consumption

Built-in functionality for pricing and billing of resources in the self-service portal



## Automated installation

Ready-to-use installer for deploying all solution components



## Monitoring

Monitoring status and performance of platform components and hardware equipment



## Certification

Building a cloud for critical information infrastructure



# UI Examples

## Virtual data-center

ASTRA CLOUD Global search admin

Home User settings - ad... Virtual data-center x Invoices

### Virtual data-center

Edit Delete Enable Disable Virtual servers Networks Services Images IP addresses Renew Change tariff Options History Synchronize Filter

Filter Search CTRL+SHIFT+F Total: 3

<input type="checkbox"/>	Id	Name	Tariff plan	Client	End date	Service status	Price	
<input type="checkbox"/>	37	org01_vdc02	Reliable hosting	Org 01	2026-02-28	Active	0.00 RUB / Month	...
<input type="checkbox"/>	31	vdc31	Reliable hosting	test (astra@mailasac.com)	2026-01-21	Deleted	0.00 RUB / Month	...
<input type="checkbox"/>	25	org01_vdc01	Reliable hosting	Org 01	2026-02-17	Active	0.00 RUB / Month	...

Price : 0.00 RUB / Month

BILLmanager Astra Cloud редакция Базовая 6.132.0 ISPsystem © 2004-2026

Quickly and flexibly configure virtual server settings for development, testing, and hosting applications or services.

- CPU and RAM Configuration
- Setting a Password

**Minimum action - maximum control**

# UI Examples

## Create tariff plan

The screenshot shows the 'Create tariff plan' page in the Astra Cloud management interface. The page is divided into two main sections: a left sidebar and a main content area. The sidebar, on the left, contains a navigation menu with items such as 'Provider', 'Clients', 'Users', 'Products/Services', 'Billing', 'Resource consumption', 'Resources by statistics', 'Service settings', 'Marketing', 'Integration', 'Settings', 'Localizations', 'Document templates', 'Message templates', 'Registration blocking', and 'Control panel address'. The main content area is titled 'Create tariff plan' and features a progress indicator with two steps: '1. Product type' (active) and '2. Tariff plan parameters'. Below the progress indicator, there is a 'Provider' dropdown menu set to 'acpdemo' and a checked checkbox for 'Activate after creation'. The main content area lists four resource types, each with a 'Select' button: 'Virtual data-center', 'PaaS services', 'Colocation', and 'DNS hosting'. A 'Cancel' button is located at the bottom left of the main content area. The top of the interface includes the 'ASTRA CLOUD' logo, a 'Global search' bar, and a user profile 'admin'.

Creating resources for a tariff plan

- Traffic
- Virtual IPs
- Virtual Machine Disk Space

# UI Examples

## Home

The screenshot displays the Astra Cloud Home dashboard. At the top, there is a navigation bar with the Astra Cloud logo, a global search bar, and a user profile dropdown for 'admin'. Below this is a breadcrumb trail: Home > Staff > Payment methods > Invoices > Select a payment ... > Reports > Roles > Clients > User settings - ad... > Users > Virtual data-c >. A left sidebar contains a menu with categories: Provider (Providers, Companies, Payment methods, Reports, Global settings), Clients (Clients, Payers), Users (Users, Staff, Users, User roles, User settings), and Products/Services (Virtual DC). The main content area is titled 'Home' and features a 'Quick access' section with three buttons: 'Add client', 'Create tariff plan', and 'User settings'. Below this is a 'Trends' section with tabs for 'Sales', 'Sales (unpaid)', and 'Payments', a 'Year' dropdown, and a 'acpdemo' dropdown. The trends area shows a 'No data yet' message with an icon of a folder and books, stating 'They will become available when there is information'. At the bottom, there are two sections: 'Sales by provider' and 'Comparison of sales by periods', both with refresh icons.

Creation, configuration and administration of infrastructure

- VDC Creation and Management
- Status and Timeline Monitoring
- Management Tools
- Filtering and Search
- Customer and Cost Information

# Use cases

/01

## Automate deployment of enterprise applications

Rapidly deploy enterprise applications with minimal effort and no downtime

/02

## Cloud lab for development and testing

Deploy an isolated environment for testing, development and debugging applications

/03

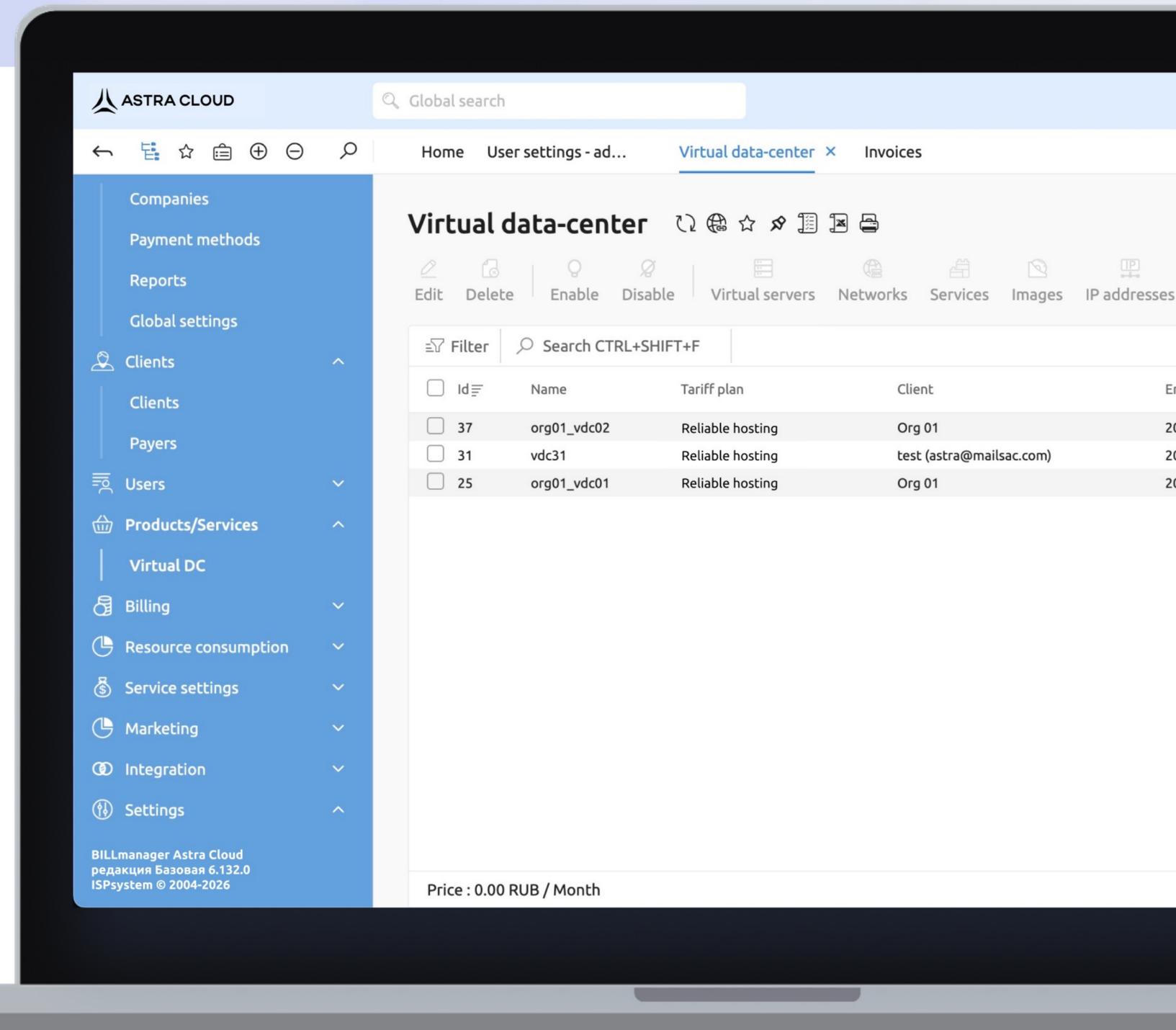
## Store and manage confidential data

Build a secure platform for storing and processing confidential information that meets regulatory requirements

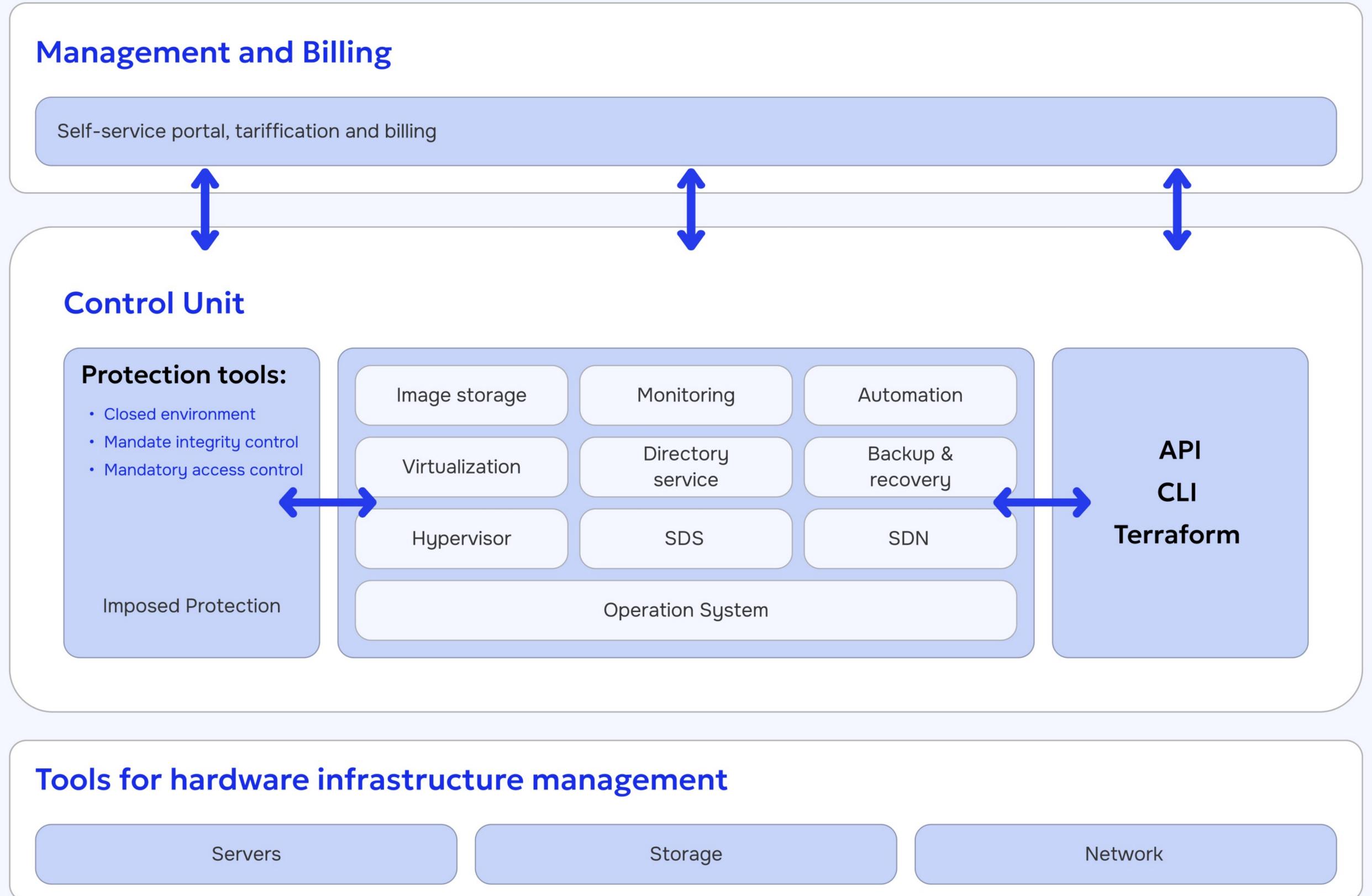
/04

## Hosting for XaaS applications

Host and launch any applications on the platform for providing cloud services



# Cloud platform components



# Platform Licensing

## AIC Editions:

- AC Base
- AC Standard
- AC Enterprise (H2 2025)

## Included:

- Control Unit License (3x dual CPU socket server)
- Extension Unit License (1x dual CPU socket server)
- Technical Support: Control and Extension Units

Features	Base	Standard
Virtual Data Center based on hardware resources	1	unlim
Integration with 3rd party virtualization platforms	–	+
Nvidia vGPU support	–	+
Geo Distribution (Federation mode)	–	+
Buil-in Helpdesk	–	+
Service fault tolerance	–	+
Accounting module	–	+
Authentication, authorization, registration, message exchange (ESIA)	–	+
Payment systems support	–	+

# Delivery options

	<b>Software Complex</b>	<b>Hardware-Software Complex</b>	<b>Public Cloud</b>
<b>Hardware</b>	Provided by Customer	Provided by Hardware-Software Complex manufacturer	Provided by Astra Cloud
<b>Delivery</b>	Software License	Hardware-Software Complex License	Subscription
<b>Technical Support</b>	Astra Group	Hardware-Software Complex manufacturer	Astra Cloud

# Roadmap

Category / Product	2026 H1	2026 H2	2027+ (A)	2027+ (B)
Compute resources	<ul style="list-style-type: none"> <li>Astra Cloud configuration manager</li> <li>Virtualization REST API</li> <li>Disaster recovery (DR) as part of AstraCloud: mechanisms to integrate third-party DR solutions for consumers' workloads</li> <li>Expanded functionality in the self-service portal</li> </ul>	<ul style="list-style-type: none"> <li>Tools to migrate VMs from VDC / third-party provider clouds</li> <li>Baikal processors for virtual compute capacity</li> <li>Platform component REST APIs (platform API gateway)</li> </ul>	<ul style="list-style-type: none"> <li>Support for hybrid clouds and standby sites for disaster recovery</li> <li>Support for automated hardware replacement scenarios using ACCM</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring as a service: monitoring tools for dedicated and virtual consumers (Mon-aas)</li> <li>Resource planning and capacity management / automatic rebalancing</li> <li>Support for hybrid clouds</li> <li>Disaster recovery as a service (DRaaS)</li> </ul>
Containers	<ul style="list-style-type: none"> <li>Support for the 'Boatswain' container platform to manage cloud container clusters</li> </ul>	<ul style="list-style-type: none"> <li>Software repositories for containers</li> </ul>	<ul style="list-style-type: none"> <li>Kubernetes in the cloud with GPU libraries</li> </ul>	<ul style="list-style-type: none"> <li>Kubernetes in the cloud with a self-service portal (KaaS)</li> </ul>
Networking	<ul style="list-style-type: none"> <li>SDN component ('software-defined networking') (on request)</li> </ul>	<ul style="list-style-type: none"> <li>Managed load balancers</li> <li>Direct connectivity between sites (Direct Connect)</li> </ul>	<ul style="list-style-type: none"> <li>Network microsegmentation at the VM and container level</li> <li>Support for multi-zone deployments</li> </ul>	<ul style="list-style-type: none"> <li>Support for multi-region deployments</li> <li>Network as a Service (NaaS)</li> </ul>
Storage systems	<ul style="list-style-type: none"> <li>Support for SDS TROK software-defined data storage</li> </ul>	<ul style="list-style-type: none"> <li>53 object storage</li> <li>Snapshot management</li> <li>Asynchronous replication</li> </ul>	<ul style="list-style-type: none"> <li>Geo-distributed storage</li> <li>Synchronous replication between clusters</li> </ul>	<ul style="list-style-type: none"> <li>Storage as a Service (STaaS)</li> </ul>
Databases	<ul style="list-style-type: none"> <li>Guidance for self-hosting DBMS services on the platform</li> </ul>	<ul style="list-style-type: none"> <li>Tantor Data database machine</li> </ul>	<ul style="list-style-type: none"> <li>Cloud database backup</li> </ul>	<ul style="list-style-type: none"> <li>Managed databases (DBaaS)</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Guidance for self-hosting application services on the platform</li> </ul>	<ul style="list-style-type: none"> <li>ALD Pro directory service</li> </ul>	<ul style="list-style-type: none"> <li>CI/CD and application automation &amp; deployment tooling</li> </ul>	<ul style="list-style-type: none"> <li>API Gateway as a service</li> <li>Application integration for various industries</li> </ul>
Security	<ul style="list-style-type: none"> <li>Authentication subsystem (Iteration 1)</li> <li>Certification/attestation project services</li> </ul>	<ul style="list-style-type: none"> <li>Type-1 hypervisor</li> <li>Identity and access management (IAM) subsystem (Iteration 2)</li> </ul>	<ul style="list-style-type: none"> <li>-</li> </ul>	<ul style="list-style-type: none"> <li>-</li> </ul>
Big data, AI/ML	<ul style="list-style-type: none"> <li>-</li> </ul>	<ul style="list-style-type: none"> <li>(HW/SW complex) CXOD on Baikal processors</li> <li>'Tesseract' platform for AI and machine learning</li> </ul>	<ul style="list-style-type: none"> <li>Tooling stack to build, run, and deliver applications-DB, AI, ML, etc.</li> <li>Cloud services for data storage, processing, and analytics</li> </ul>	<ul style="list-style-type: none"> <li>-</li> </ul>

**Request a demo  
and quote**



**[astracloud.ru](https://astracloud.ru)**