auto.sky
by Sky.One

Auto.Sky Cloud vs Hosting/Private Cloud
COMPARISON

tegrous CONSULTING

1 Public Cloud + Platform = Resilience with Performance

The search for innovation, agility, and collaboration has accelerated digital transformation and the search for cloud services. However, there is an indiscriminate use of the term cloud in the market, mixing concepts that completely change how the technology is delivered, as in the case of public and private cloud.

Sky.One understands that public clouds are, from the last decade until now, the most suitable for companies looking for security and cost efficiency. The security standards of the public cloud providers are unmatched by data centers and private clouds, and the global scale provides resiliency across dozens of Availability Zones.

To take full advantage of the benefits of the public cloud, we created a platform, Auto.Sky. As it is a platform, activities are carried out automatically and safely, without the need for manual intervention, and it accumulates the knowledge of 10 years of constant evolution. Today we have the best of IT management, governance, and compliance practices applied to the platform, which result in a resilient envirment with performance like no other in the market.

Auto.Sky is the best option for migrating your client-server application to the cloud.

1.1 Public Cloud: unlimited capacity

According to Gartner, the public cloud will account for 60% of IT investments by 2024.

Many companies in the Brazilian and Latin American markets are not yet enjoying the benefits of providers that invest billions of dollars every year in cybersecurity, such as Amazon Web Services, Google or Oracle. Sky.One has brought all these benfits with Auto.Sky to more than 5000 customers in Brazil, Latin America, the United States and Canada.

Leveraging what is securely offered by these providers, we focus on the main thing: the security and resiliency of your application.

1.2 Auto.Sky: Mission Critical Public Cloud

The Auto.Sky Platform was created to migrate client-server applications to the public cloud. In the 10 years of Sky.One, we have developed some of our own solutions in our R&D, including:

→ **Auto scaling of client-server applications:** a proprietary development by Sky.One that scales applications on servers, delivering the necessary performance at all times;

→ **Template and image servers,** which allow software updates without downtime for multiple environments simultaneously;

→ **Cloud Backups:** We perform over 1.5 million backups per year, in snapshots. Bringing up a new server with snapshots takes minutes rather than hours or days;

→ **Auto.Sky virtualization:** our own virtualization allows the system to be accessed from anywhere, via browser, and encryption;

→ **Authentication layer:** unique in the market, it isolates the ERP and applications from unauthorized access. Users only access the application after authentication, which offers **ReCaptcha, MFA and Single Sign-On using SAML.**

2 Exclusive features of Auto.Sky Cloud x Hosting/Private Cloud

SECURITY	auto.sky
Authentication Layer	Secure access, via a URL. Authentication with ReCaptcha, MFA and Single Sign-On using SAML. All accesses are logged and can be requested for audits Access restrictions based on schedules, IPs. Setting password patterns (characters, lengths)
Application scaling	Auto.sky dynamically manages servers daily, which guarantees dynamic IP's on a recurring basis, making brute force attacks on static addresses difficult. This same mechanism guarantees the renewal of machines based on templates, which mitigates possible isolated intrusions from client access.
Server Monitoring	24x7 Server Monitoring, with dashboard visualization by our customers
Anti Malware	Basic version installed on all clients. Advanced version available for contracting
Brute force attacks	To reduce brute force attacks, all Sky.One environments already have Auto.Sky Defender, which monitors and mitigates attacks in real time. In addition to blocking offending IPs in real time, the platform centralizes IP analysis and allows blocking of IP blocks after they are identified as malicious IPs.
Mapping of external surfaces	Sky.One team does the mapping of the external surfaces, periodically reviewing the servers.
Security	Segregation of environments into accounts and virtual private networks, reducing lateral movements. Continuous Vulnerability Mapping of all Sky.One platforms: Auto.Sky, Security.Manager, Integra.Sky, Sky.Simple. Periodic Pentest on all platforms. Use of password vault.
Endpoint Protection	Upon additional contracting, we recommend and offer EDR (Endpoint detection and response) for local access stations, ensuring the protection of the customer's local network and mitigating possible attacks through authenticated users.
Visibility and Governance	Monitoring and Governance of Vulnerabilities by hiring the Security Manager tool.
Licensing of Databases and other services	All banks are licensed and compliant with their suppliers' audit rules. Patch management integrated with customer needs.

RESILIENCE	auto.sky
Backups	Sky.One takes snapshots of all servers on a nightly basis using the best backup practices. Backups are done automatically, without the need for additional tools, and stored in secure accounts and locations isolated from the rest of the IT infrastructure. As they are in public clouds, they are stored in locations with an availability of 99.999999999%, as opposed to backups in physical storages that can be single points of failure. The default retention period is 7 calendar days. The optional Advanced Backup offers a higher frequency of backups, longer retention periods and the possibility to store backups in other clouds or even in an offline environment.
Backup Recovery	The deployment of a new server in the Cloud, with the snapshot to be recovered, is done quickly when necessary, using additional infrastructure in an almost unlimited way, with dozens of Availability Zones. 24x7, trilingual support for uploading backups
Recreating the whole infrastructure in another region	Possible in Auto.Sky, that already uses multiple global locations in multiple cloud providers
Resilience and Recovery	Using public clouds ensures that there are multiple regions where we can recover. If application servers are compromised: → We can instantly shut them down and automatically escalate capacity using the last published image; → In case the image is compromised, we can use previous images directly from the admin panel; → In extreme cases, we can restore backups and use them for images. In the case of databases: → For customers using cloud-managed databases, recovery is done by cloud resources; → For customers using databases on instances, we use backup and restore policies.