

# CYBERSECURITY

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*Rest easy knowing that your online presence is safe and secure with  
ASG's automated "Exponential Protection" model*

## A Square Group LLC (ASG)

7101 Guilford Drive, Suite 100  
Frederick, MD 21704

Phone: 301-770-1400  
Email: [bd@a2-g.com](mailto:bd@a2-g.com)

**a<sup>2</sup>**  
Group

## List of our services

ASG's core Cybersecurity platform is optimized to ensure network security, application security, information security, operational security, and business continuity. We have extensive experience in securing sensitive data (PII/PHI) and tracking activities across endpoints and surfaces to detect events and flag risks.

### CONTINUITY PLANNING

ASG offers all-inclusive services to develop or update business continuity plans to cover risks to growing business and IT environment. We assist in the implementation of best-practice business continuity strategies to keep organizations compliant with regulations and standards.

- Business Risk Assessment
- Business Impact Analysis
- Business Continuity/Disaster Recovery Strategy
- Disaster Recovery Assessment
- Tabletop exercises

ASG supports our federal clients with a holistic approach to evaluating hybrid cloud risk awareness and determining the organization's resilience level. We perform a Business Impact Analysis (BIA) to identify organizational risks and identify recovery strategies to meet the Recovery Time Objectives (RTO).

ASG has performed a BIA and developed a Business Continuity Plan (BCP) for USCIS and CMS. The BCP was validated by conducting tabletop exercises to ensure the RTO was met.

### INFORMATION ASSURANCE

ASG's services address all stages of the security lifecycle to reduce risks to federal clients by applying standard processes and procedures

to detect and prevent vulnerabilities or neutralize and recover in case of incident or systems outage.

ASG has provided security audits, network architecture reviews, compliance audits, and security policy implementation to the DoD, USCIS and CMS.

## **IDENTITY AND ACCESS MANAGEMENT**

ASG has a comprehensive set of solutions to identify system users and control their access to system resources by associating user rights and restrictions with the established identity. Web single sign on (SSO), user provisioning, advanced authentication, legacy authorization, public key infrastructure and directory services are critical components of identity and access management.

## **SECURE CONTENT AND VULNERABILITY MANAGEMENT**

ASG offers a comprehensive set of solutions that focus on allowing organizations to determine, interpret and improve their risk posture. Our cyber security consultants create, monitor, and enforce security policy and provide management of various security technologies from a single point of control. Solutions include:

- **Anomaly detection**  
Building, training, and deploying Machine Learning models into real-life environments. Minimize risks in IT management processes using machine learning.
- **Fraud detection and prevention**  
Protect applications, services, and operations from fraud using machine learning and decision automation. Our solutions provide real-time fraud analytics and prevention by integrating with transactional systems and data streams.

- **Statistical modeling**

Applying statistical methods to make reliable future predictions and discover actionable insights.

- **Trend Analysis**

With access to the large source of historical data, our experienced analysts conduct the analysis work, assess the data, identifying and tracking signals and their prominence during the monitoring period.

## **ZERO TRUST MODEL**

ASG provides services to control the access of APIs for specific IP addresses, Zonal access, time of day or authenticated with multi-factor authentication (MFA) to ensure privileged access to the system. It helps to analyze the access across the cloud-based system to facilitate the admins to define policies using the principle of least privilege and zero trust model.

## **DEVSECOPS**

With rising cyber threats and vulnerabilities in the digitally advancing IT world, IT leaders are looking for airtight security measures in the development lifecycle. Implementing a DevSecOps framework reduces chances of vulnerable code and potential security exploits, ensuring seamless security and resilience of applications. ASG's DevOps security model endorses a culture of security that matches your CI/CD needs with minimum disruption to operations, accelerated go-to-market rates. We deploy automated code review and testing, microservices architecture, containerization, and cloud security tooling in order to deliver the desired results.

## **CLOUD DEVSECOPS SERVICES**

ASG's Cloud DevSecOps services are built around accelerating software deployment, using pioneering lean technology, to drastically reduce the time it takes to build, test, and roll out applications.

#### **CLOUD DATA LAKES AND DATA WAREHOUSES**

- A combination of Data Lakes and Data Warehouse architecture, with appropriate hierarchies, security, and governance rules providing a best-of-both-worlds solution.
- Built-in data privacy and security: These key features are built into our frameworks from the ground up.
- Data Strategy & Governance: Protect and govern data assets, data Quality check, metadata curation and accelerate database management optimization for better business outcomes.

#### **CLOUD TEST AUTOMATION**

We've developed our cloud native test automation service package to deliver flawless software to our clients within tight timelines and rely on best world practices to ensure the continuation of the business operations. ASG's encryption package ensures all PII data will be masked while testing in lower environments.

#### **MACHINE LEARNING MODEL DEVELOPMENT SERVICES**

Our experienced data scientists use industry-leading toolkits, libraries, and frameworks to maximize predictive power and accelerate time-to-value.

- Auditability for all ETL and ELT processes.
- Containerized CI/CD and embedded analytics
- Standards-driven design and code
- Cloud-enabled. Multi cloud computing.
- Resiliency (automated re-start, recovery)
- MPP (massively parallel processing)

## STAYING AHEAD OF THE CURVE

As threats constantly change, ASG focuses on multiple layers of cybersecurity protection including:

- Audit trails for users/APIs accessing the system and immediate attention to detect following.
- What the event was
- What user, system, or application launched the event
- The date and time the event occurred
- The impact of the event and urgency of attention required.
- An automated maintenance process to ensure corrective, preventive, risk-based, and condition-based actions.
- Our insights have multiple dimensions including costs and benefits (ROI) analysis quantitatively and qualitatively.
- Our approach for Risk Management is to Assess - Identity - Evaluate - Remediate - Report, and finally, Train the model for faster corrective action in the future.

We start with a strong network perimeter, protecting data and information systems from cyber threats, and then ensure compliance with Federal Information Security Modernization Act (FISMA) standards.

### About A Square Group, LLC

At A Square Group (ASG), we enable clients to achieve their business goals through technology, process, and governance. Our experienced professionals work in partnership with our clients to ensure their investments deliver superior results - increasing business efficiency and improving business processes. We ensure our solutions integrate with all aspects of our clients' business: their business systems, work practices, corporate strategy, culture, and people. Our record of excellence in service stands as our hallmark as we continue to increase our client base. ASG's dedication to clients is demonstrated every day in the way we interact with each individual.

### Areas of Expertise

Artificial Intelligence (AI), Machine Learning (ML), Cybersecurity, Identity and Access Management (IAM), Software Development, Mobile Development, Cloud Computing, DevSecOps, CI/CD, Cloud Migration, Healthcare Services & IT Solutions, Measures and Instrument Development & Support, Data Center Services, Data Analytics, Big Data, Training & Outreach, Web Development & E-Learning, Agile Transformation, and Digital Transformation

**A Square Group is a Minority, Woman-Owned, Small Disadvantaged Business.**

**CMMI L3 (Dev & Svcs) | ISO 9001:2015 | ISO 20000-1:2018 | ISO 27001:2013 Certified**

### Contact Us

[www.a2-g.com/contact-us](http://www.a2-g.com/contact-us)

Phone: 301-770-1400

Email: [BD@a2-g.com](mailto:BD@a2-g.com)

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