



Cygnets **Infotech**
IT is about you

A Blockchain Integrated Self-assessment Solution

Empowering the global leader in
cyber compliance

Cygnets Infotech

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Client Profile

Our client is a certified cyber audit and assessment firm lead by the members of the U.S. intelligence community. Since the inception, they have emerged as the highest-ranked, pureplay cyber security compliance and advisory firm in the world. They are among the very few global companies to be both an ISO/IEC 17020:2012 FedRAMP – certified assessor and PCI qualified security assessor offering cybersecurity compliance and advisory services to:

Transnational
financial services

International
manufacturers

Aerospace and
space companies

Transportation
businesses

Medical device
manufacturers

AND MANY
MORE...

Business Scenario

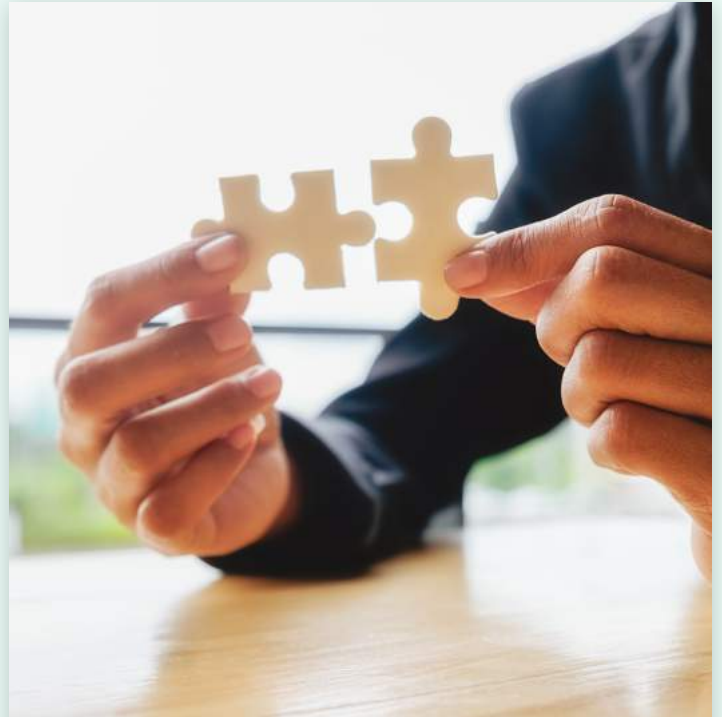
Compliance analysts and security engineers at our client's firm work with diverse businesses across the globe to help them swiftly navigate the intricate cybersecurity landscape and deliver measurable, lasting cybersecurity risk and compliance results. One such principal framework is NIST – National Institute of Standards and Technology – a prominent resource for technological advancement and security for most of the pioneering organizations.

NIST develops and issues standards, guidelines and provides a catalog of security controls to assist federal agencies in achieving compliance. Compliance with NIST standards and guidelines has become the topmost priority for federal information systems and organizations, and non-government organizations.

Business Challenges



Considering the different business touchpoints, diversified IT and global presence, attaining flawless and perpetual compliance emerged as an imposing challenge for them. They wanted to conceptualize a technology solution that would engage teams of different organizations operating from diverse geographies, and implement compliance frameworks to achieve the NIST compliance and information security.



Proposed Solution

Engineers at Cygnet conceptualized a simple risk management solution that would address security controls based on an organization's assessment of risk that includes access control, incident response, business continuity and disaster recoverability.

We developed a simple question and answer-based solution obtaining safeguards implemented to protect the confidentiality, integrity and availability of the system and its information. Thus enabling an organization to agree with a checklist helping them to make real progress on data security and reduce the risk of fines for non-compliance.

Our Approach



Determined business footprints, locations, workforce & systems involved



Determined concerned business processes and IT infrastructure



Organized gap analysis to identify lapse in compliance



Developed a questionnaire written in clear, non-technical language



Integrated blockchain to maintain information integrity

Key highlights of the solution

- Comprehensive dashboard showing project and organizational compliance
- Evaluation is the heart of the application containing data in the form of questions to be answered to know compliance to the framework
- Each security control can have five questions with implemented, partially implemented and not implemented options to select
- Almost 150-200 controls categorized according to NIST 800-171
- Information integrity maintained with blockchain
- SaaS-based makes it suitable for small, medium and large enterprises

Business Benefits



The compliance solution further established our client as a leader in the audit and compliance advisory space



The introduction of this simple solution garnered global attention



The immutability of blockchain technology emerged as a breakthrough solution for maintaining information integrity

Tools, Technology and Methodology



TECHNOLOGY

- ASP.NET Core 2.0 MVC
- Hyper Ledger Fabric Blockchain
- EF Core 2.0
- Azure PaaS and IaaS



DEV FRAMEWORK & ENVIRONMENT

- .NET Core 2.0 MVC
- Visual Studio 2017
- SQL Server Management Studio



PROGRAMMING LANGUAGE

- C#



DATABASE ENVIRONMENT & METHODOLOGY

- SQL Server 2017
- Azure SQL Database Services

About Cygnet

Cygnet Infotech is one of the most trusted names in the IT space delivering technology solutions to global clients across 29 countries. Born out of a vision to create software development company where quality, innovation and personalized services trump low cost, makeshift solution, Cygnet partners with its client to help them transform in to high performance businesses.

Cygnet has deep industry and business process expertise, global resources and a proven track record in delivering innovative technology solutions. Cygnet can mobilize the right people, skills and technologies that improves business performance.

Contact Us

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Founded in 2000,
currently with offices
across 6 continents



900 Employees
Delivered 2000+
Projects



18 Years of Experience
Serving 250+ clients
in 35 countries



80% Client Retention



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