</> MicroRisk Labs

Company Profile

April 2025

Overview

MicroRisk Labs is a Cybersecurity services corporation with offices in Toronto, Canada and Kigali, Rwanda; founded by a group of security engineering experts to bring Cybersecurity best practices to Enterprises, Public Sector Institutions as well as Non Governmental Organizations.

Our mission at MicroRisk Labs is to provide our clients with the highest level of cybersecurity expertise and guidance to build and maintain a strong security posture. We are committed to delivering customized solutions that address the unique needs of each business, ensuring that they are protected against potential cyber threats.

At our core, we are committed to helping businesses navigate the complex and ever-changing world of cybersecurity. We believe that by working closely with our clients, we can help them build and maintain a strong security posture, protect their assets, meet compliance requirements, and preserve their reputation. Our mission is to make cybersecurity accessible to all businesses, regardless of size or industry, and to help them achieve their goals with confidence and peace of mind.

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Working with Small Businesses and Non-Profit Organizations

The need for strong cybersecurity measures has grown tremendously over the past few years, and this need is particularly acute for businesses and non-profit organizations. As these organizations increasingly move their operations to the cloud, they are becoming increasingly vulnerable to cyber attacks. Additionally, non-profits often work with highly regulated data (Personally Identifiable Information) or in politically sensitive areas, which can make them targets for cyber attacks with serious consequences, not just for the organization but also for the communities they serve.

One of the main challenges that businesses and non-profit organizations face when it comes to the overcharging cybersecurity landscape, is the lack of in-house technical expertise and resources.

Given these challenges, it is crucial for these organizations to take cybersecurity seriously and take steps to protect themselves. This may include hiring outside experts to help secure their data and infrastructure, investing in cybersecurity training for staff, and implementing strong policies and procedures to prevent cyber attacks.

At MicroRisk Labs, we understand the unique challenges that small businesses and non-profit organizations face when it comes to cybersecurity, and we can provide expert guidance on how to protect their digital resources and prevent cyber attacks. Our team can also provide guidance on how to navigate the regulatory context in which many businesses and organizations operate and ensure that they are not just protected against cybercrimes but also that they are compliant to their respective regulatory regimes.

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Services

1. Security Consulting and Training Services

At MicroRisk Labs, we understand the critical importance of cybersecurity in today's world, where businesses are constantly under attack from hackers and other malicious actors. Our goal is to help our clients stay one step ahead of these threats by providing tailored solutions that meet their unique needs.

As part of offering, we help businesses with Security Assessment and Penetration Testing, Security Risk Management, as well as design and implementation of security systems leveraging our expertise in different security areas: Identity & Access Management, Encryption, Network Security, Cloud Security, etc.

We believe that by combining our technical expertise with a deep understanding of our clients' businesses, we can provide the most effective cybersecurity solutions possible.

Our comprehensive approach begins with Threat Modeling i.e. a thorough assessment of your current security posture, identifying potential vulnerabilities and areas for improvement. We then design a custom cybersecurity strategy, incorporating the latest technologies and best practices to safeguard your digital assets.

Our team of experienced professionals provides ongoing support and training, ensuring that your staff is equipped with the necessary skills and knowledge to maintain a secure environment. From policy development to employee training to implementation and monitoring, we are your dedicated partner in establishing a resilient and effective cybersecurity program that evolves with your business needs.

2. Cloud Migration

Moving to the cloud can offer significant benefits in terms of scalability, cost-effectiveness, and flexibility, but it can also introduce new security risks. Our team can provide expert advice on how to migrate to the cloud securely and how to ensure that your cloud infrastructure is properly protected against cyber threats, and that data residency meets .

We offer expert guidance on cloud migration and cloud security services for major cloud service providers such as AWS, GCP, and Azure. Our team has extensive experience working with these providers, and we can provide customized solutions to meet the unique needs of each client.

We can provide guidance on best practices for cloud migration, including the selection of appropriate cloud infrastructure and the implementation of robust security measures. We can help businesses identify and mitigate security risks in their cloud environments and ensure that their cloud infrastructure is properly protected against cyber threats.

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3. Hiring services, Compliance , and Vendor Procurement

In addition to our traditional consulting services, we provide expert guidance on hiring security engineers, procurement for security solutions, and compliance.

Hiring security engineers can be a challenging process, especially for businesses that are not familiar with the skills and experience required for these roles. Our team has extensive experience in the cybersecurity industry and can provide guidance on everything from defining job descriptions to identifying and screening candidates.

Compliance is another crucial area where MicroRisk Labs can provide expert guidance. Compliance requirements can be complex and ever-changing, and failing to meet these requirements can result in serious consequences, including fines and reputational damage. Our team can provide guidance on how to navigate complex compliance requirements and ensure that your business is always in compliance with the latest regulations.

MicroRisk Labs also works with organizations at all levels and industries who are looking to develop and implement robust compliance frameworks. Recognizing the pivotal role these policies play in shaping industry standards and ensuring legal adherence, our approach is both meticulous and collaborative. We begin by thoroughly understanding the regulatory landscape, including all pertinent laws, guidelines, and industry best practices. Leveraging our deep expertise in cybersecurity and regulatory requirements, we then work closely with your team to draft policies that are not only compliant but also practical and enforceable.

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Procurement for security solutions is another area where many businesses may need expert guidance. With so many different solutions on the market, it can be challenging to identify the best options for your business. Our team can provide expert guidance on which solutions are most effective for your specific needs, as well as helping you negotiate pricing and contracts with vendors. We can also help businesses navigate complex compliance requirements and ensure that their security solutions meet all necessary standards and regulations.

4. Maintenance Services

We offer maintenance and incident response services to ensure that our clients' systems and networks are running smoothly and securely at all times. We understand that even the most well-designed cybersecurity systems can still experience issues or vulnerabilities, which is why we provide ongoing maintenance and monitoring services to catch and address any potential problems as quickly as possible.

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Our maintenance services include regular system checks, software updates, and vulnerability assessments to identify and address any potential security weaknesses before they can be exploited. We believe that proactive maintenance is key to preventing security breaches and keeping your systems secure. We work closely with our clients to develop a customized maintenance plan that meets their specific needs and fits within their budget.

In the event of a cybersecurity incident, our incident response team is available 24/7 to quickly respond and mitigate any potential damage. We follow a proven incident response process that includes containment, analysis, and recovery, to minimize the impact of the incident on our clients' businesses. We also work closely with our clients to provide post-incident recommendations and guidance to help them prevent future incidents.

5. Security Research & Incident Investigation

At MicroRisk Labs, we prioritize a thorough understanding of the cybersecurity landscape to anticipate and counteract emerging threats, especially in the realm of cybercrime. Our dedicated research team vigorously monitors and analyzes trends in cybercrime, staying ahead of the latest attack methods and cybercriminal tactics. This proactive approach is foundational to developing robust defense strategies that protect our clients from sophisticated cyber threats.

Our comprehensive threat intelligence program is central to our cybercrime threat assistance. It collates extensive data from a variety of sources, including advanced industry reports, real-time threat intelligence feeds, and proprietary research. This wealth of information equips our clients with a deep understanding of the current threat landscape, highlighting specific vulnerabilities that cybercriminals might exploit. By providing up-to-date, actionable intelligence, we empower our clients and partners to fortify their defenses against targeted cyber attacks and complex cybercrime schemes.

Emphasizing the importance of informed, agile responses to cyber threats, our service is designed to help clients swiftly adapt their security strategies in the face of potential cyber incidents. With MicroRisk's expert guidance, businesses and organizations that work with us gain the insights needed to preemptively address threats and respond effectively to active cybercrime, ensuring their digital environments are resilient and secure.

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Notable Personnel

Aimable Niyikiza, **Founder & Head of Engineering**
LinkedIn Profile

Mr Niyikiza has practiced security engineering in over 14 countries in the last decade. He started his career working for Korea Internet Security Agency (KISA) and continued to build his extensive experience working for Penta Security Systems Inc., consulting for different organizations in various verticals: government, defense, banking, IT, etc.
Over the years, Mr Niyikiza has also been a driver for different Cloud Security & Cryptography projects and has delivered university lectures and conference talks on Cybersecurity in different countries.

From 2019 to 2022, Aimable was part of Google Inc. where he worked on helping high-dollar-value customers have security baked into their architecture on the top of GCP, and later led multiple projects for Alphabet(Google parent company)'s M&A security strategy team. He later went on to work as a technical lead of the Cloud Security engineering team at Datadog Inc and as part of the Production Security staff at Snap Inc.
He holds multiple security certifications from institutions such as Google, ISC2 and Amazon Web Services.

Remmy Byiringiro, **Co-founder & Head of Consulting Services**
Linkedin profile

With over five years of experience in the field of cyber and information security, Mr Byiringiro has gained an extensive level of knowledge and expertise in various aspects of this rapidly evolving industry. As a highly experienced professional, he has developed an in-depth understanding of Identity and Access Management (IAM), Governance, Risk and Compliance (GRC), IT audit, technology and vendor risk assessment.

Currently serving as a Senior Information Security Consultant with CIBC, Remmy has demonstrated his ability to work effectively within a highly regulated and complex environment. With his strong problem-solving skills, he has consistently provided innovative solutions to address complex security challenges and enhance the overall security posture of his clients.

In addition to his professional experience, he holds a Bachelor's degree in Economics from Wilfrid Laurier University and is a Certified Scrum Master. These academic achievements, coupled with his hands-on experience, have made him a highly sought-after professional in the field of cybersecurity.

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Gaspard Harerimana, Phd, Lead Expert Consultant — Cyber and Data

Dr Harerimana is a dedicated computer scientist with a distinguished career focused on cybersecurity and big data. He has a wealth of expertise in developing advanced machine learning models that tackle key challenges in different areas such as Healthcare and Cybersecurity (malware research, analysis, and reverse engineering). His extensive experience includes consulting on cybersecurity projects across various countries, dealing with aspects ranging from incident management, to threat intelligence to digital crime investigations.

Alongside his technical prowess in machine learning and cybersecurity, Dr Harerimana has led numerous projects that integrate statistical machine learning and representation learning to enhance security protocols and forensic capabilities. His strategic approach often involves the application of natural language processing and computer vision to improve the efficacy of digital crime investigations, setting new standards in cybersecurity measures and incident response.

Jean Pierre Niyodusenga, Lead Expert Consultant — Cybersecurity

Mr Niyodusenga is a seasoned Cybersecurity, Networks, and Systems Security expert with 14 years of diverse professional experience across business sectors, non-governmental organizations, universities, and telecommunications. Currently serving as the Senior Manager of Networks and Systems Security at BSC Plc Rwanda, he plays a pivotal role in optimizing security systems to enhance business operations.

Previously, he led the Security team at Korea Telecom Rwanda Networks, deploying and maintaining advanced security solutions across 4G LTE networks, IP networks, and IT systems. He holds a Master's degree from Carnegie Mellon University, and has earned numerous certifications from esteemed entities such as CISCO, Microsoft, Redhat Inc., EC-Council, and ISO.

In addition to his technical and managerial capabilities, he is an accomplished trainer, having delivered numerous cybersecurity training sessions that cover a range of topics from basic security awareness to advanced cybercrime response strategies. His technical acumen includes a deep understanding of both Windows & Linux Client/server infrastructures across various OS flavors, coupled with significant hands-on experience in operating and securing Telecom IT/IP and LTE infrastructures.

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Note: Further information on previous projects & case studies are available per request under NDA.