COMPANY PROFILE

WOLF PACK

WOLFPACK INFORMATION RISK:

INFORMATION AND CYBER SECURITY | PRIVACY | BUSINESS RESILIENCE

WOLFPACK
INFORMATION RISK (PTY) LTD

We are an independent information risk services company

Established: June 2011

We specialise in **information** and **cyber threat management** covering the full spectrum of **prevention, detection, incident response** and **business resilience** capabilities

Our Services:

Research and Threat Intelligence – International cyber security research projects and local insight into strategic and operational cyber threats facing companies
Advisory – Professional business aligned information risk services
Awareness – Establishing a security-aware culture throughout the organisation
Training – Tailored training programmes to ensure optimal skills-transfer
Managed Services – Cyber Threat Monitoring Centre offering threat and vulnerability management services
Incident Management – Proactive and reactive incident response services

THE
WOLFPACK STORY

Wolves belong to family groups called packs, usually consisting of eight to fifteen members. Within the pack, each member has a particular set of skills and responsibilities, which are executed with purpose and precision.

Environmental Analysis

Before wolves go in for the kill, they spend a considerable amount of time studying their prey. Wolves are masters at understanding environmental conditions and making the best strategic decisions based on the intelligence they have gathered.

Wolfpack has developed a comprehensive health check that combines all key technology people and business requirements and thereafter, provides a tailored strategy and roadmap for each customer. A one-size-fits-all approach does not work.

Built for the Kill

Wolves will defend their territory and work together to fend off much larger predators. Although not as physically strong as other predators in their habitat, wolves hunt in packs to kill prey that is both larger and stronger than each individual wolf. Teamwork allows the pack to target larger prey that a lone wolf would fail to kill.

No single country, government or organisation can effectively protect themselves against the vast barrage of cyber threats. Wolfpack's underpinning culture has been forged through national and industry community initiatives and is committed to the improvement of cyber collaboration and security within the African continent and beyond.

The Wolf Howl

The wolf howl is a distinct call to action for all members of the pack. Howling helps the wolf pack to communicate effectively in thickly forested areas or over vast distances and to summon members when they are attacked. Wolves will also howl for communal reasons. Some scientists and environmentalists surmise that such pack sessions strengthen the wolves' social bonds and togetherness or camaraderie; similar to choral singing among humankind.

A true partnership model is one that leverages the strengths of internal resources, trusted outside specialists and industry or global collaboration initiatives. This is pivotal to provide assurance that the required risk management, threat intelligence, monitoring, incident management and business resilience building blocks are in place to support organisational requirements.

" Protection in the **Pack "**

THE CYBER **PARADOX**

The Benefits and Risks of Cyberspace

The cyber age is introducing rapid change and business disruption including:

- Untapped global customer markets
- Faster supply chain integration
- New online tools to enhance productivity and collaboration
- Reduced digital storage costs
- Mobility and much more.

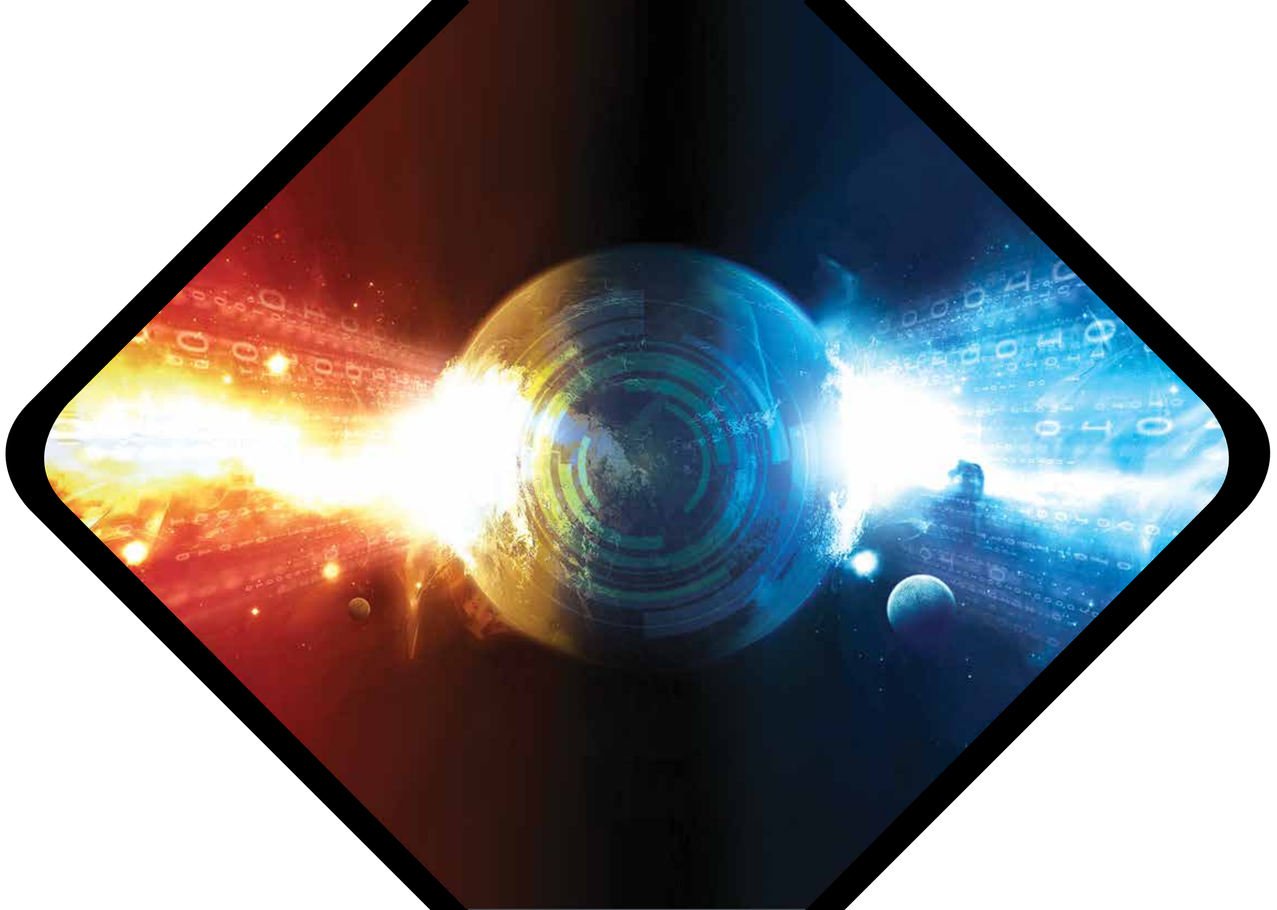
The cyber age has furthermore disrupted business models of traditional organisations at a rate never experienced before.

And it Doesn't Appear to be Slowing Down

We all now operate in an interconnected cyber ecosystem. As a result, securing critical business and personal information, transactions and operations, means looking beyond the walls of the organisation.

The New Reality Facing all Connected Organisations

- A massive reliance on technology
- Transactions and operations span multiple entities
- Increased demand for technology means that skills are scarce and expensive
- Organisations are expected to provide trust and privacy: ignorance is no longer accepted as an excuse
- A large increase in threat actors abusing technology to further their own agendas



BUSINESS OBJECTIVES	DISRUPTIVE TECHNOLOGIES	INCIDENTS (CIA)
Financial Performance Increased Revenue Growth and Productivity Improvement	Cloud Services Big Data Data Analytics	**Financial Impact** Fines / Penalties / Incident Response Costs
Market and Customer Growth Improved Customer Acquisition and Retention	Social Media Marketing /Sales / CRM Platforms	**Reputational Impact** Customer Losses / Stakeholder and Investor Concerns
Process Excellence Increase Operational Throughput and Quality	Robotics / Automation Internet of Things (IoT) Mobile Apps	**Operational Impact** Downtime Lost Productivity SLAs not Achieved
People and Learning Optimised Human Capital Management Culture of Performance and Accountability	AI / Machine Learning Digitalisation / Medical Equipment Monitoring	**People Impact** Demoralised or Lost Staff/Personal Loss or Liability

Organisations are facing increased exposure to cyber risk. Cyber threats should be prioritised as a key enterprise risk. Boards should be briefed on the potential impact to the organisation and obtain assurance that risks are appropriately monitored and managed. Boards and executives that maintain their focus on information risk management do more than protect the business; they enable growth in the digital age.

GOOD CYBER SECURITY = A HEALTHY BUSINESS

WEAK CYBER SECURITY = A HIGH RISK BUSINESS

THREAT
LANDSCAPE

Attacks against countries, organisations and individuals are on the increase

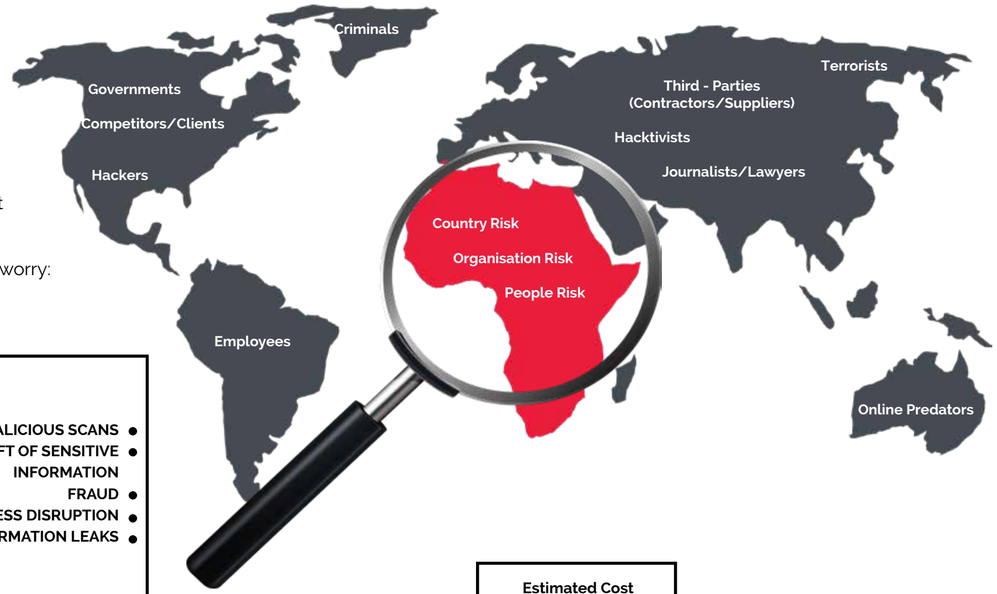
Cybercriminal Code of Ethics

"If what you put on the Internet is worth anything, one of us will try to hack or steal it."

"If we can't sell it, we'll just encrypt it or erase it so you can't use it either, or simply post it online to ruin your reputation."

"If you don't care about protecting your stuff from the likes of us, don't worry: You're our favourite type of customer!"

Estimated Global Spend $ 120 Billion+



Estimated Cost of Cybercrime $ 400 Billion+

- ORGANISED CRIME SYNDICATES
- OPPORTUNISTIC CRIMINALS
- ONLINE PREDATORS
- THUGS
- HACKTIVISTS

- MALICIOUS SCANS
- THEFT OF SENSITIVE INFORMATION
- FRAUD
- BUSINESS DISRUPTION
- INFORMATION LEAKS

- STATE SPONSORED ATTACKS – MILITARY / INTELLIGENCE
- MERCENARY / BLACK HAT HACKERS
- TERROR GROUPS
- HACKTIVISTS

- INTELLIGENCE GATHERING
- INTELLECTUAL PROPERTY THEFT
- PROPAGANDA AND MISINFORMATION
- REPUTATIONAL HARM
- CRITICAL INFRASTRUCTURE DAMAGE
- DISTRIBUTED DENIAL OF SERVICE
- FUNDRAISING

- DISGRUNTLED EMPLOYEES
- RECKLESS EMPLOYEES
- HACKTIVISTS
- UNAWARE EMPLOYEES
- INFORMATION PARTNERS

- COLLUSION
- SCAMS
- SOCIAL ENGINEERING
- SPEAR PHISHING
- INFORMATION LEAKS
- EXTORTION
- DARK WEB ACTIVITY
- RANSOMWARE

THE WOLFPACK 7 POINT **EXECUTIVE CHECKLIST**

1

Assess the Risk
Cyber resilience today should be a key focus of boards and senior management. Do you know where your organisation is exposed?

2

Understand the Impact
Determine the operational, financial and reputational harm to your organisation should you be the victim of a major breach or disruption.

3

Establish an Effective Information Risk Improvement Programme
Use recognised international guidance coupled with local assurance reviews.

4

Implement a Tailored Training and Awareness Programme
Address the specific risk and skill gaps in your organisation.
Lead by example.

5

Incident Management
Ensure you have an organisation-wide incident response team and effective plans which are tested at regular intervals.

6

Monitor
Institute consistent board oversight of programme milestones and metrics to ensure effective risk management.

7

Ensure Business Resilience Requirements
Redundancy and backup systems, disaster recovery, business continuity and crisis management should be in place.

INTRODUCING THE "WOLFPACK EFFECT" INTO YOUR ORGANISATION

Wolfpack works with the management teams of their clients to securely unlock the operational and financial benefits that modern technology and cyberspace have to offer. Our holistic approach combined with your team's support will maintain the sensitive balancing act between business needs and effective information risk management. We cover the full spectrum of prevention, detection, incident response and business resilience requirements.

This section outlines our approach as we jointly undertake the journey to improve the maturity of information risk management across the organisation.

CASE STUDY: HOW REINTRODUCING WOLVES HELPED SAVE A NATIONAL PARK

Wolves were once the top predator in America's world-famous Yellowstone National Park, but the population was eradicated in the 1920s. In 1995 a small pack of wolves were reintroduced to Yellowstone to manage the negative effects of overgrazing by a rising elk population. The effect amazed scientists and dramatically changed the park's rivers, forests and the landscape itself. **Click the box to watch this amazing short documentary.**

INFORMATION RISK
BUILDING BLOCKS

Our information risk framework provides the foundation upon which we build the strategy to support business objectives, as well as the subsequent information risk programme. The modular nature of the framework provides an agile environment in which to allow the organisation to continuously re-evaluate their priorities and approach as the business and threat landscape evolves.

WOLFPACK INFORMATION RISK:

INFORMATION AND CYBER SECURITY | PRIVACY | BUSINESS RESILIENCE

Information Risk Strategy and Framework

The purpose of an information risk strategy and framework is to determine how to recognise, manage and decrease the impact of information and cyber risks effectively, and in a repeatable manner.

This will be tailored to the industry, size, intricacy, risk profile, and culture of the organisation and informed by the constantly changing cyber threat and vulnerability landscape.

Governance and Compliance

Effective governance structures reinforce accountability by defining clear responsibilities and lines of reporting and escalation.

Cyber security compliance requirements need to be identified and addressed to prevent reputational harm or financial penalties incurred should an incident occur. Oversight departments should establish the cyber risk tolerance of the organisation and oversee the design, implementation, and effectiveness of related information risk programmes.

Risk and Control Assessment

As part of the enterprise risk management capability, the organisation should evaluate the inherent risk presented by people, processes, technology, and underlying data that supports each identified business unit, activity and service.

All functions should then identify and assess the existence and overall effectiveness of controls to protect against the cyber risks identified and determine an acceptable residual risk.

Continuous Learning and Awareness

Information protection needs to be implemented across our people, process and technology domains.

A clear majority of breaches are due to human involvement, either malicious or accidental and not due to a lack of technology protection and controls.

Business culture plays a significant role in setting the standards for behaviour throughout an organisation, starting at the top with all levels of management and with each employee or third-party involved in the organisation.

Information Sharing and Collaboration

No single company or government organisation can effectively withstand the rapid increase of cyber threats; collaboration is key. Sharing sanitised technical information, such as compromise indicators or details on how weaknesses were exploited, allows entities to maintain current defences and stay abreast on emerging methods used by attackers.

This allows organisations to move from a constantly reactive state to begin adopting a more proactive approach to reduce vulnerabilities. Organisations and public authorities such as law enforcement or regulatory bodies such as the information regulators should identify and address impediments to information sharing.

Performance Measurement

"If you cannot measure it, you cannot improve it". A critical requirement for any cyber security programme is verifying the effectiveness of established controls. At regular intervals, organisations should evaluate their security controls to determine whether they are operating as intended.

There are several processes to monitor information risk control performance and effectiveness:

1. Establish and regularly review security metrics
2. Run vulnerability assessments and red team tests to ensure controls are effective
3. Conduct an internal audit or independent assessment to evaluate overall cyber risk management.

Monitoring and Threat Intelligence

Connecting your organisation to cyberspace makes it vulnerable to the full spectrum of global threats.

Without constant monitoring, you have no way of knowing when you are under attack.

Establish systematic monitoring processes to detect reconnaissance scans, attempted intrusions and actual incidents and periodically use this valuable information to evaluate the effectiveness of controls.

Subscribing to external threat intelligence feeds is another method of gaining insight into updated techniques used by threat actors or new malicious software strains.

Incident Response

All the previous elements focused on implementing preventative and detective controls which help to improve the maturity of an organisation's defences.

It is, however, not possible to deter every attacker or successfully block all malicious activity. Based on the premise that "it's not if but when you have a major incident", it logically follows that the organisation should have an incident management framework in place. Incident management preparedness begins with maintaining a business-aligned incident response plan and a skilled incident response team.

Recovery and Resilience

Should all previous controls fail, the organisation is left with no other choice but to implement business continuity management. Once business continuity and disaster procedures are invoked, operations are stabilised and information integrity is assured, prompt and effective recovery of full critical business systems may commence.

This should be based on prioritisation of critical business areas and systems in accordance with objectives set by prior planning sessions with senior management.

THE AIM APPROACH
ASSESS, IMPROVE AND MONITOR

Wolfpack has developed a robust approach (AIM) to address an organisation's specific business, governance, risk and compliance requirements across the vast domain of information risk.

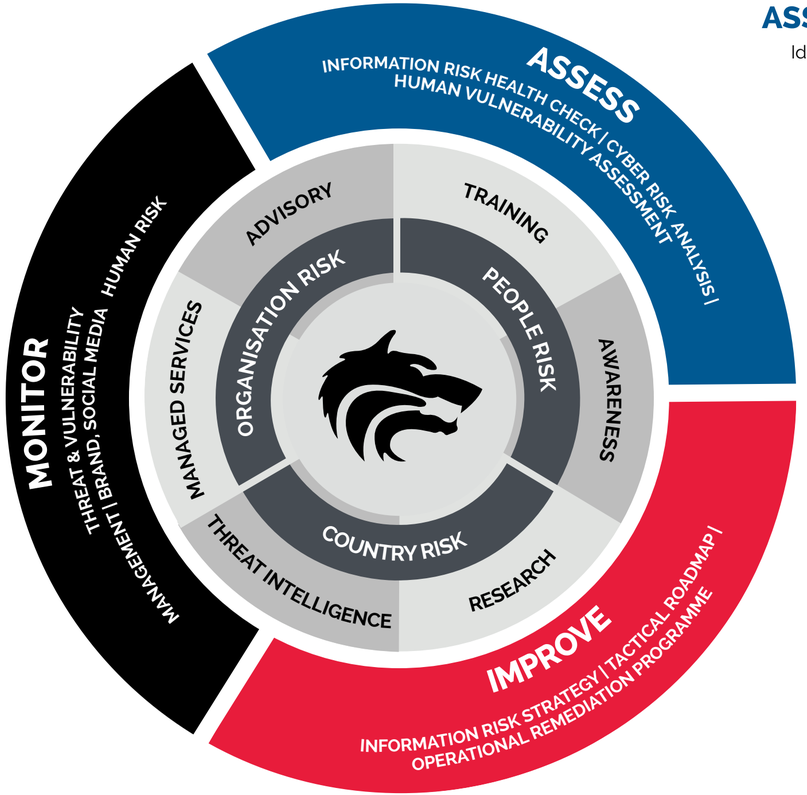
MONITOR

Connecting your organisation to cyberspace makes it vulnerable to the full spectrum of global threats and requires constant monitoring indicators of possible global threats and compromises

Technical - Correlate and analyse event data, determine suspicious network behaviour, conduct active network scanning and respond to threats more effectively

Business and Human Risk – Monitor online activity risks for business, social media and human environments

Performance Measurement – Ensure the performance of the programme aligns to support business objectives



ASSESS

Identify the specific **information threats** facing your business environment

- Validate acceptable information risk levels **in accordance with business requirements**
- Determine the **maturity** of existing information risk people, process and technology controls across key domains
- Highlight key **vulnerabilities** and risk areas across the organisation

IMPROVE

Institute a robust information risk improvement programme

- Information risk strategy
- Tactical **priority roadmap** for the establishment of an information risk management framework
- An **operational improvement programme** in accordance with international specifications
- This includes a tailored **training and awareness** programme to ensure skills transfer

WOLFPACK SERVICE LINE
ADVISORY

Governance, Risk and Compliance Services

Information Risk Assessment

Our world-class information risk assessment ensures over 450 vulnerabilities are reviewed in interviews with strategic and tactical teams. The assessment factors in concerns raised by stakeholders, audit findings and past incidents ensuring that all security requirements are identified and prioritised according to business impact.

Security Architecture and Design

A well-designed security architecture programme will ensure that all security is business-driven, risk-focused, comprehensive, modular, auditable and transparent, demonstrates compliance and provides two-way traceability of business requirements.

Information Security Management System (ISMS) and ISO 27001 Certification

We have the necessary skills and experience to partner with you to scope, establish an ISMS, and take it through to a successful ISO 27001 certification. We can furthermore assist with certified lead auditor and lead implementer training for all teams.

Human Resource (HR) Governance

We ensure that the security governance requirements of the employee lifecycle from on-boarding, security roles and responsibilities and finally off-boarding are defined and communicated effectively to both IT and HR teams.

Privacy and Protection of Personal Information Act (PoPIA) Reviews

Organisations are expected to safeguard personal information entrusted to them; ignorance is no longer accepted as an excuse. We conduct a privacy impact assessment and provide the necessary consulting services to ensure your organisation is compliant with relevant privacy and data protection requirements.

Supplier and Third-Party Risk

We will review your current supplier management lifecycle to ensure that the applicable governance components such as NDAs, SLAs and other contracts are in line with information risk management requirements. We also perform independent third-party risk assessments.

Information Risk Strategy and Roadmap

Our information risk framework provides the foundation upon which we architect the strategy to support business objectives and the subsequent information risk programme. The modular nature of the framework furthermore provides an agile environment to allow the organisation to continuously re-evaluate their priorities and approach as the business and threat landscape evolves.

Data Governance Framework Classification and Handling

The data governance framework aims to provide an approach to proactively minimise the likelihood and impact of a data leak. Through a consultative approach we help both business and IT to understand the value of their data, establish classification rules and then provide guidelines to communicate securely. Training is also provided.

IT and Network Security Reviews

IT devices are crucial for the operation of any organisation. An IT and network review will ensure that weaknesses in configuration are identified and remediated, reducing the risk of a security incident.

Change and Release Management

IT change and release management is primarily concerned with the governance of transitioning new technology and procedural adjustments into a live operational environment, with as little risk as possible.

IT Governance and IT Risk Review

IT governance is a framework that ensures your IT infrastructure supports and enables an organisation to achieve its goals. We will perform an IT process maturity review, IT risk assessment and can assist with remediation of your IT environment.

Incident Management

We review your current IM, DR and BCM environment and ensure an ISO 27035 aligned incident management programme is in place to handle major privacy or cyber incidents. We provide the necessary governance documentation, detailed "battle guides" and training / simulated incident testing for the Incident Response Team (IRT).

Business Continuity and Crisis Management

We will establish the required BCM governance components in accordance with ISO 22301. We then conduct a Business Impact Analysis (BIA) with senior management teams to determine and evaluate the potential effects of an interruption to critical business operations as a result of a disaster, accident or emergency.

Disaster Recovery

Following an alignment process to the BCM strategy, we establish detailed disaster recovery plans for all key areas of the organisation. We then run simulated disaster scenario tests and help to mentor and upskill the DR Operations Team.

WOLFPACK SERVICE LINE
TRAINING AND AWARENESS

Human Risk Management Services

Public Training Courses

Information and Cyber Security
- Cyber Security Foundation Programme
- CompTIA Security+
- CompTIA Advanced Security Practitioner (CASP)
- Certified Information Security Manager (CISM)
- Cyber Information Intelligence Programme
- Cyber security Internship Programme
- Incident Response Training Simulation
- ISO 27001 Foundation
- ISO 270001 Lead Implementer
- ISO 27001 Lead Auditor
- ISO 27035 Lead Incident Response

IT Governance
- COBIT 5 Foundation

Business Continuity
- ISO 22301 BCM Foundation
- ISO 22301 BCM Lead Auditor
- ISO 22301 BCM Lead Implementer

Risk Management and Privacy
- ISO 27005 IT Risk Foundation
- ISO 27005 IT Risk Manager
- ISO 31000 Risk Foundation
- ISO 31000 Risk Manager
- ISO 31010 Risk Assessment Techniques
- Certified Lead Privacy Implementer

Tailored Training Programmes for Companies, Executives or Operational Areas

We have successfully built and facilitated cyber training courses (ranging from 1 to 4 hours in length) for boards and executives. We then run more detailed operational courses for line management and GRC / IT teams so that the entire management team understands the importance of securing the organisation.

Specialist Government and Industry Training Programmes

We have successfully run training programmes for the banking and government sectors. Based on specific industry or country needs we are able to structure a course tailored to your specific requirements.

Digital Simulations

Simulations are online interactive lessons where a student has to navigate their way through the course and make the correct decisions

Easy Policy Communication Tool

There is often a disconnect between policy writers and their audiences. We have summarised key requirements from a typical information security policy into an easy to read, branded story booklet available in digital format that can be shared electronically or printed, which outlines expected behaviours.

Awareness Programme Management

A large portion of incidents are due to human involvement, which may be malicious or accidental and not a lack of technology protection. Culture plays a huge role in setting the standards for behaviour throughout an organisation, starting with all levels of management and with each employee or third-party involved in the organisation. Wolfpack provides a full turnkey awareness solution that includes business needs analysis, content development and customisation, programme management, an intuitive learning management system, as well as various human vulnerability assessments conducted using our online threat platform Camo Wolf.

Employee Cyber Protection

Online protection from credential theft, malicious links, viruses, and abusive posts via monitoring, alerting and online training.

VIP Cyber Protection

Online protection from impersonators, physical and travel threats, credential theft, malicious links and more.

Grey Wolf Learning Management System (LMS)

Grey Wolf is an affordable integrated assessment and e-learning platform that can either be installed within your environment or run in the cloud. The assessment system can provide access for multiple users that are spread across departments in various geographical locations. We offer a full maintenance and Service Level Agreement (SLA) to take the hassle out of managing the system.

Camo Wolf Human Vulnerability Assessments

We have an online threat assessment platform that can be used to conduct realistic attack scenarios on teams within your organisation. We are able to conduct spear-phishing, bad USB, ransomware simulations, dumpster diving as well as test your physical security by gaining access to facilities. All tests are conducted in a controlled professional manner without reducing the realism of an actual attack.

Professional Awareness Content

Wolfpack maintains its custom range of short professional animated videos that are both fun to watch as well as being a highly effective learning tool as they are based on realistic incidents. Each video topic comes with supporting materials such as posters, cartoons and screensavers that are branded in accordance with corporate identity guidelines to further drive the message home.

Topics
- Cyber threats
- Protecting personal information
- Protecting business information
- Data security
- Mobile security
- Phishing
- Protection of Personal Information Act (PoPIA)
- Cybercrime
- Password management
- Protecting your family
- Social engineering
- Employee and contractor risks
- Cloud and third-party risks
- Information rights management
- Payment Card Industry Data Security Standard (PCI DSS)
- Pin Entry Device (PED) tampering

Cyber Wellness Workshops

We run workshops teaching your employees how to protect themselves and their families against relevant cyber threats when using social media, mobile devices, games etc. The workshops use a combination of interactive feedback technology and "eye-opening" demonstrations and are extremely effective at getting "buy-in" from your users.

WOLFPACK SERVICE LINE

MANAGED SERVICES

Technology Risk Management Services

Security Monitoring

- Security Information and Event Management (SIEM) – Correlate and analyse security event data from across your network.
- Behavioural Monitoring – Identify suspicious behaviour on your assets.
- Asset Discovery - Determining what devices are connected on the network.
- Vulnerability Assessment and Intrusion Detection – Discover and monitor your crown jewel assets for weaknesses and possible compromise.

Online Brand Reputation Management

Protection from takeover, fake spoofing, fraud/scams, counterfeit, violence, phishing, inappropriate use.

Social Media Protection

Facebook and LinkedIn auto content moderation and domain protection from takeover, violence, phishing and scams.

Cyber Incident Response

.We have relationships with local and international partners to assist our clients with an incident response service thereby giving you access to a highly-experienced incident response specialist, at the time when you need it most.

WOLFPACK SERVICE LINE

RESEARCH AND THREAT INTELLIGENCE

National, Industry and Community Initiatives

National and Industry Research Programmes

Wolfpack has conducted a number of national or sector- specific related threat research projects on topics such as cybercrime and critical information infrastructure protection. Our research is 100% vendor-neutral and is aimed at providing guidance to policy makers and strategic public and private sector stakeholders.

CyberCon Africa Annual Cyber Conference

Wolfpack is the event manager of the CyberCon Africa conferences hosted in Gauteng, South Africa. The purpose of the conference is to collaborate to identify national cyber vulnerabilities facing the continent and to jointly work on finding solutions.

Alert Africa Community Awareness Website

One of the challenges highlighted at previous CyberCon events was the lack of a national awareness programme. Wolfpack partnered with the British High Commission to build Alert Africa to provide guidance on cyber threats and provide a portal to report a cybercrime in South Africa.

Wolfpack Cares Social Responsibility Projects

Wolfpack's culture is one of community engagement and support.. As such we undertake a number of pro bono projects each year.

WOLFPACK INFORMATION RISK
KEY PARTNERSHIPS

Wolfpack has partnered with a number of local and international organisations, which complement our service offerings.

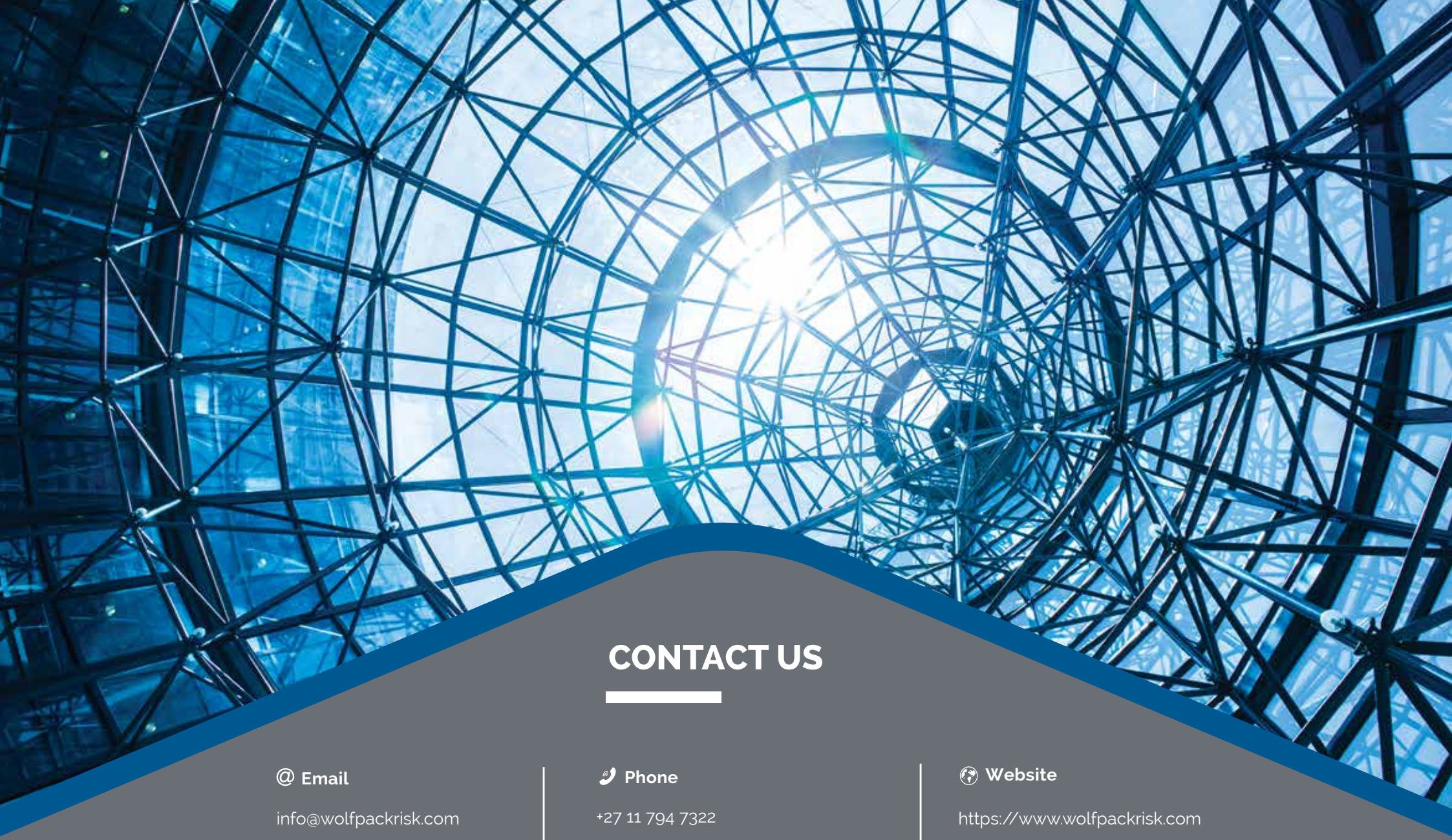
CompTIA is the voice of the world's information technology (IT) industry. As a non-profit trade association advancing the global interests of IT professionals and companies, they focus their programmes on four main areas: education, certification, advocacy and philanthropy. Wolfpack Information Risk is an authorised CompTIA training partner.

Wolfpack is a Managed Services Solution Provider (MSSP) for AlienVault in South Africa. Their Unified Security Management (USM) solution combines 5 key security capabilities with expert threat intelligence that is updated from the Open Threat Exchange (OTX). Every day, AlienVault Labs analyses an immense amount of data submitted to OTX by more than 37,000 participants from 140+ countries.

The Services SETA Education and Training Quality Assurance Body (ETQA) has been accredited by SAQA for performing all quality assurance functions with regard to the implementation of learning programmes that falls within the services sector's scope. Following a stringent assessment in 2012, Wolfpack Information Risk was accredited as a skills development provider to offer outcome-based learning programmes.

Wolfpack is a Managed Services Solution Provider (MSSP) for ZeroFOX in Africa. They deliver automated threat detection and remediation across social, mobile, digital, and collaboration platforms. ZeroFOX identifies organisational risks and security threats targeting both businesses and employees.

PECB is a certification body for persons, management systems, and products on a wide range of international standards. As a global provider of training, examination, audit, and certification services, PECB offers its expertise on multiple fields, including but not limited to Information Security, IT, Business Continuity, Service Management, Quality Management Systems, Risk and Management, Health, Safety and Environment. Wolfpack Information Risk is an authorised PECB training partner and holds multiple professional PECB certifications.



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