

forebrook

Forebrook is a cybersecurity and IT governance consulting services firm based in Dubai. We are vendor-independent and specialise in security assessments, risk assessments, design & review of ISMS, and implementation of ISMS processes. Our assessments include practical recommendations and actionable advice, with prioritised roadmaps to implement controls.

We also provide IT Infrastructure Services, IT Asset Inventory, CMDB & Documentation services, Cloud Services, virtual-CIO and virtual-CISO services.

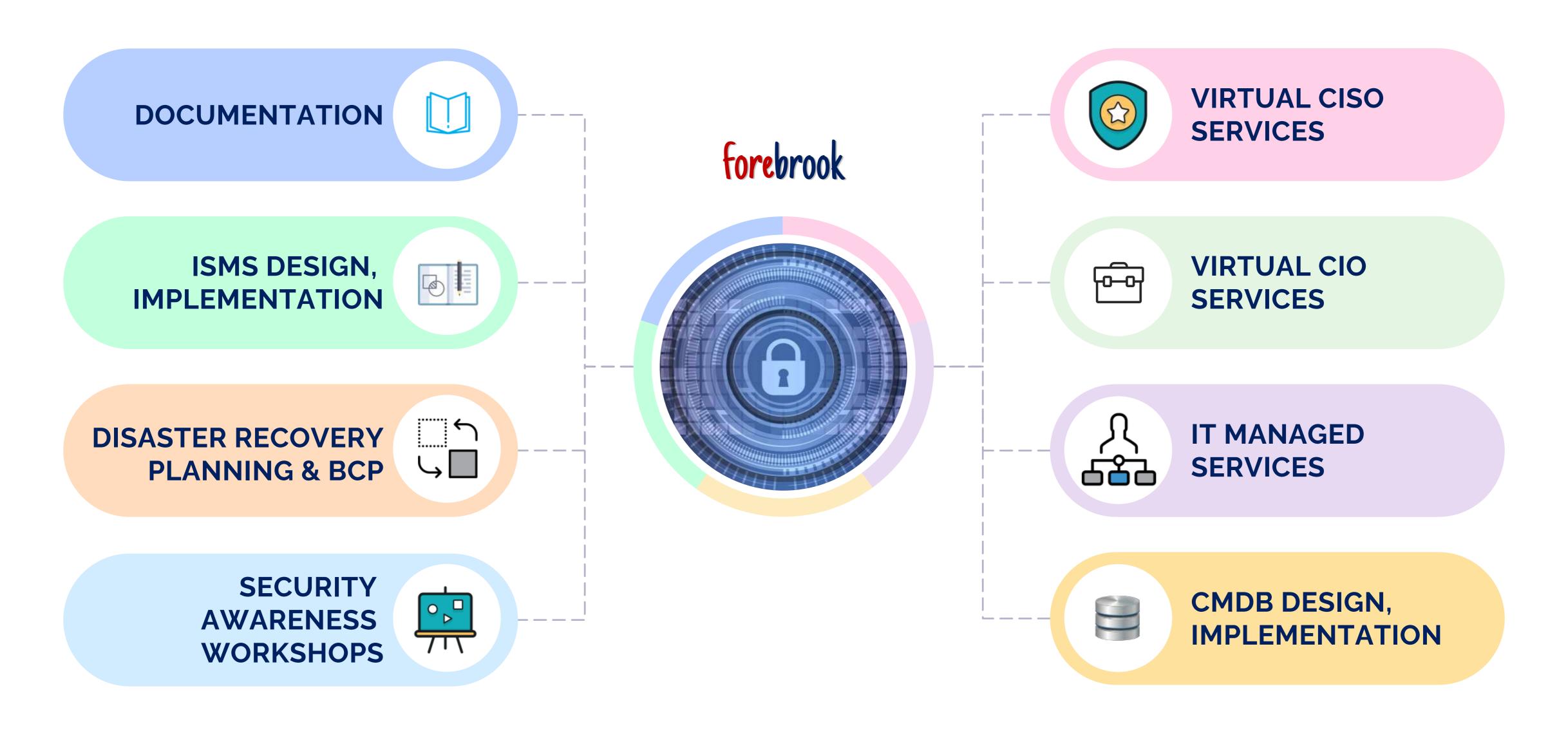
THINK SERVICES



ASSESSMENT SERVICES



IMPLEMENTATION & OTHER SERVICES



IT SECURITY ASSESSMENT

IT Security Assessments are indispensable for the security of information systems. In an environment with existing security controls, periodic assessments uncover gaps and help improve the security posture. If an ISMS is not in place, the best place to start is to conduct a preliminary assessment to identify applicable controls.

Our assessments are comprehensive and we produce detailed and bespoke reports.





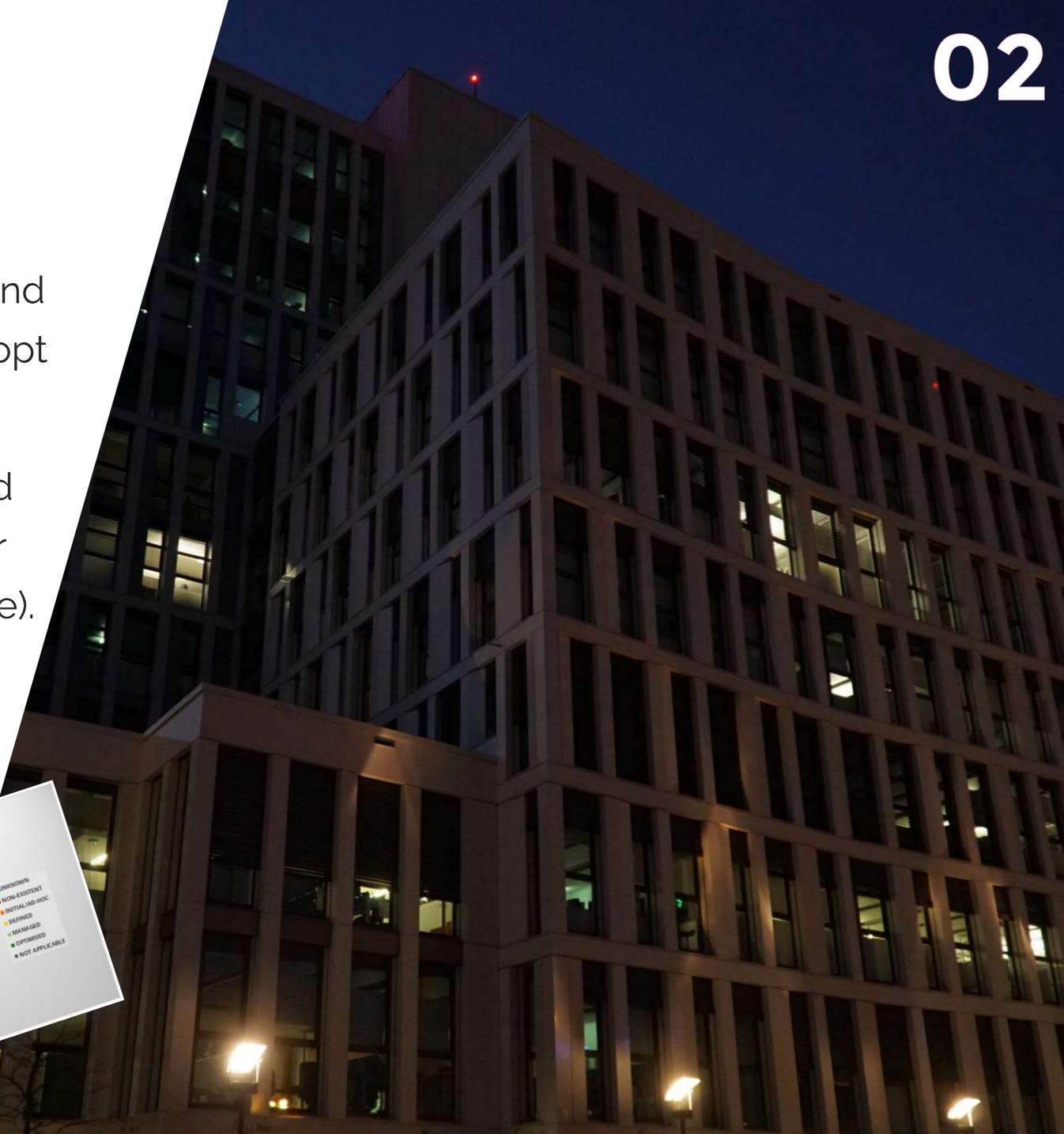
COMPLIANCE ASSESSMENT

Organisations are required to comply with local and international standards. Many organisations also opt for ISO27001 or PCI-DSS certification.

We help organisation prepare for compliance and conduct 3rd party assessment against any local or international security standards (see the next slide).

A gap-analysis report and a recommendations report will help you improve security and achieve compliance.





SECURITY STANDARDS, REGULATIONS

 UAE Information Assurance Regulation ISO 27001:2013 ADSIC ISO 22301 PCI-DSS v4 NESA Dubai ISR HIPAA ADHICS SWIFT v2022 UAE DPL (Law No.45) **GDPR** CB UAE Regulations, Guidelines SAMA CyberSecurity Framework Oman CMA CyberSecurity Regulation

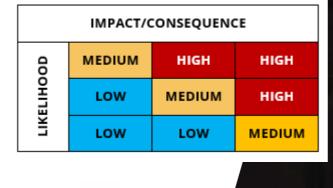


IT RISK ASSESSMENT

This is a special kind of assessment where risks related to information systems are identified, classified and risk treatment options are investigated. A risk register is created where risks related to each information asset are recorded and risk response strategy for each of the identified risks is defined.

Asset	Threat	Vulnerability	Consequence

An accurate risk-assessment is the driving force of every security strategy.



Current Assessment: Likelihood

Current Assessment: Impact

6. Current Assessment: Exposure Rating

7. Risk Response Type

9. Status





CLOUD SECURITY ASSESSMENT

Organisations are rapidly moving to the cloud and security of data and IT assets on the cloud is now even more important than when resources and data were on your premises.

We conduct a cloud security assessments to identify the footprint, vulnerabilities and risks associated with cloud infrastructures and SaaS apps against CSA CCM 4.0. We also conduct assessments against security best practice documents by cloud service providers such as Microsoft (Azure) or Amazon (AWS).





IT INFRASTRUCTURE ASSESSMENT

IT infrastructure assessment is required from time to time as an input to decision making - for strategic investments in technologies or for process

improvement and optimisation.

The outcome of such an assessment will be detailed documentation, a dashboard of the overall infrastructure, rich architecture diagrams, identification of redundant systems and recommendations to upgrade/replace systems.

These reports can be used as a starting point to plan migration to the cloud.

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VULNERABILITY ASSESSMENT

VA is an automated scan using tools to identify attributes of hosts such as OS, Applications, open ports and vulnerabilities of these hosts

VA will help identify outdated software versions, misconfigurations and critical security issues.

Raw reports generated by the scanner will be reviewed by an experienced security consultant, who will prepare summaries and course of action for remediation.





IT SECURITY AUDIT

An IT Security Audit is similar to other assessments except that this is limited to identifying gaps in the system and reporting the same. Also, in this type of an assessment we rely upon the company's IT team and security officer to provide data.

This is a useful service for internal auditors and the management which seeks a third-party assessment report of the as-is state.





IT HEALTH CHECK FOR SMEs

Organisations need to have a good understanding of the IT environment and investigate whether IT is delivering value to the business. Without an up-to-date report of the existing environment, decisions for upgrades may not be aligned with business.

Conduct a health check to take stock of your IT environment and explore how new technologies can be adopted and processes can be optimized.

Recommendations for improvement often result in huge cost savings.





DOCUMENTATION

We believe that we are among the very few, if not the only service provider in the region offering documentation as a separate service.

If an organisation does not have current and updated documentation, it is counted as a key risk to information systems.

We create extensive documentation of applications, infrastructures, processes and procedures. We prepare manuals, architecture diagrams, user-guides and SOPs.





ISMS DESIGN, IMPLEMENTATION

An ISMS is essential for organisations to manage and monitor security; and to measure efficiency. Though a number of controls and processes are in place by necessity, many organisations do not have a formally defined ISMS.

We can design an ISMS from scratch – such as an ISMS conforming to ISO27001 or the NIST-CSF and help you identify components that are required but not implemented. We can create a detailed roadmap to reach the desired state.





DISASTER RECOVERY PLANNING

It is essential for organisations to have a comprehensive contingency plan in case of a disaster – whether natural or man-made. A continuity plan which can be invoked when a disruption occurs. A BCP/DR plan should be updated regularly and tested frequently for readiness and efficacy.

We help you identify critical services, business impact and draft a cost-optimized, practical BCP and help you select appropriate DR solutions.





USER AWARENESS WORKSHOPS

We conduct engaging and content rich awareness workshops for different audience in the organisation

- The Board and Top Management
- Executives and Managers
- Audit and Compliance Team
- Systems Team
- Application Team
- End-Users
- Security Team

groups and useful in their work.





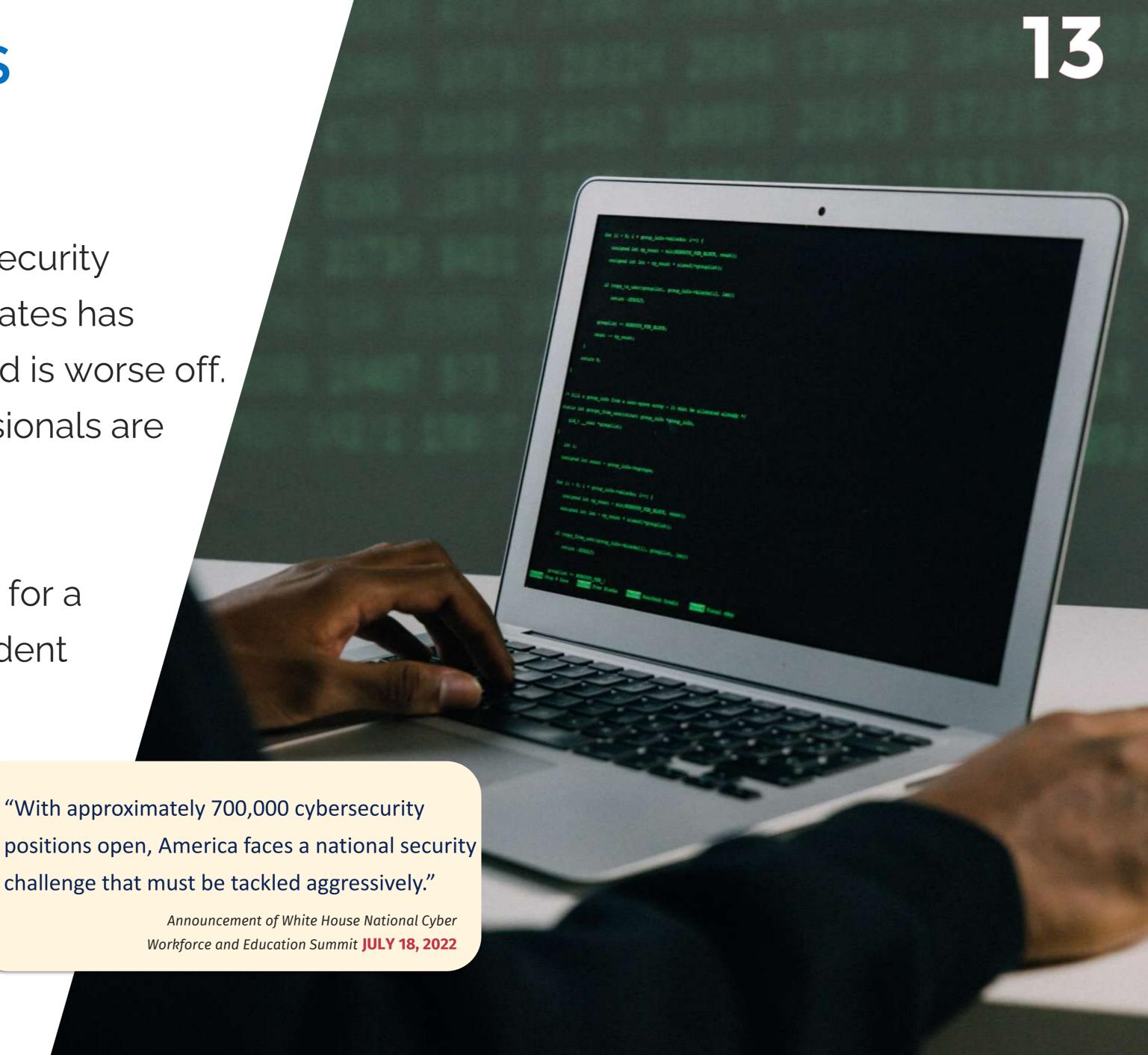


There is a serious shortage of qualified security professionals worldwide. If the United States has 700K positions open, the rest of the world is worse off. Besides, highly qualified security professionals are very expensive hires.

We can take care of your security needs for a fraction of the cost you would pay a resident CISO.

Contact us today for details on our vCISO plans.





VIRTUAL CIO SERVICES

Many organisations may not require a full-time CIO and even those organisations with a CIO may need to offload certain tasks from time to time. Forebrook can assist your organisation by performing some or all CIOtasks by drawing from a pool of experienced professionals.

With Forebrook, you can avail the services of senior consultants for a fraction of the cost of hiring highly experienced resources.

IT Strategy & Roadmap IT Portfolio Review Feasibility Analysis Managing IT Outsourcing Cloud Technologies/Services **Business - IT Alignment** Enterprise Architecture IT Governance & Compliance IT Risk Management Information Security Review Business Continuity / Disaster Recovery







CLOUD SERVICES

We assist you in your cloud computing strategy, by doing assessments, identifying areas which can leverage cloud platforms, identifying potential risks, undertaking feasibility studies and computing total costs of moving to the cloud - including hidden costs - providing actionable intelligence to decide on your strategy for a private, public or hybrid cloud. We also manage resources on Azure, AWS and MS-365 for our clients.





Design a robust CMDB based on the ITSM processes followed in the organisation or on a standard/framework such as ITIL or ISO 20000. We will review and update your CMDB and implement a suitable tool for managing the CMDB. A CMDB is essential for the following:

- 1. Application Mapping
- 2. Incident and Problem Management
- 3. Monitoring
- 4. Root Cause Analysis
- 5. Impact Analysis
- 6. Data Center Relocation/Consolidation

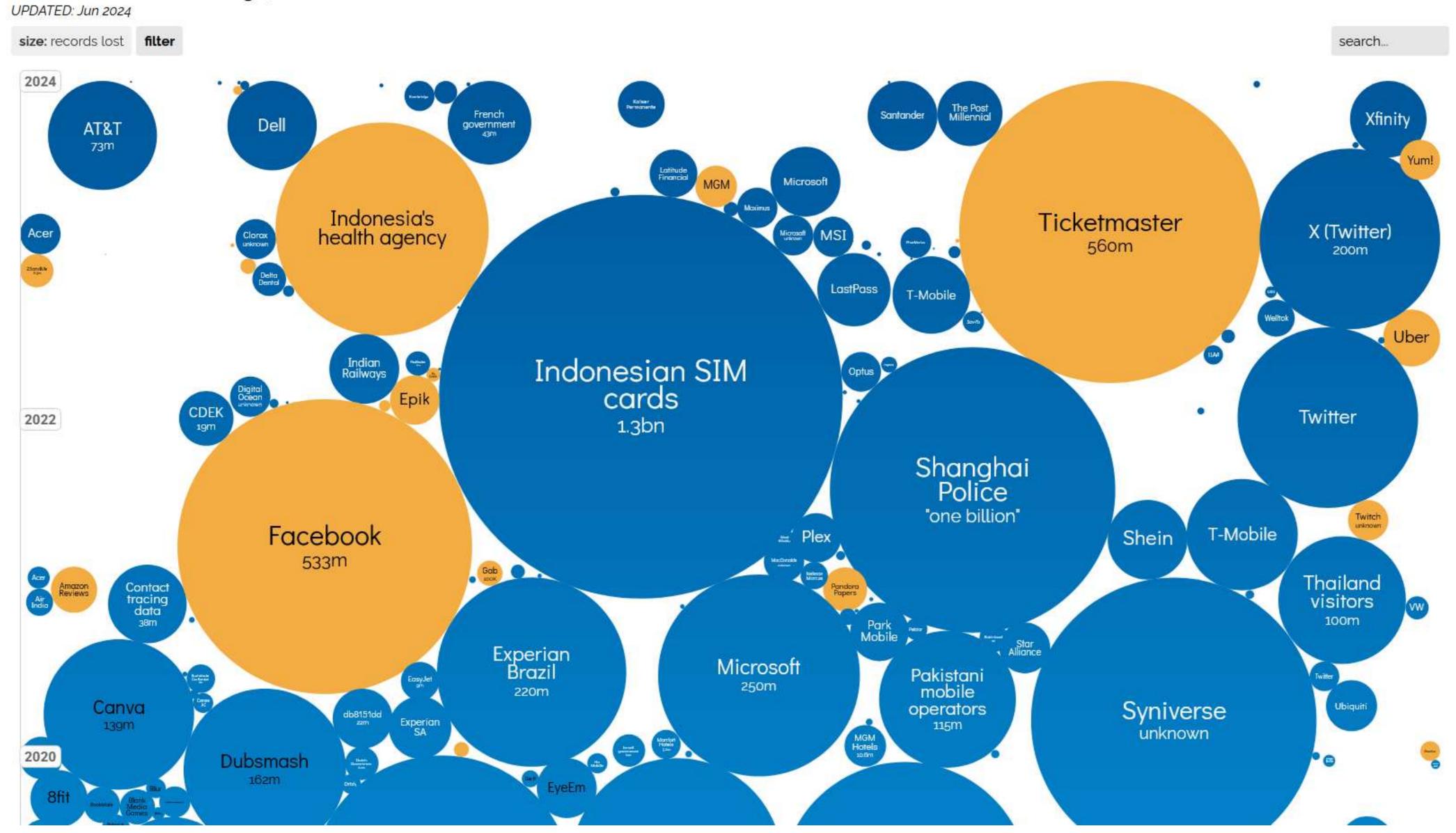




World's Biggest Data Breaches & Hacks



Selected events over 30,000 records stolen



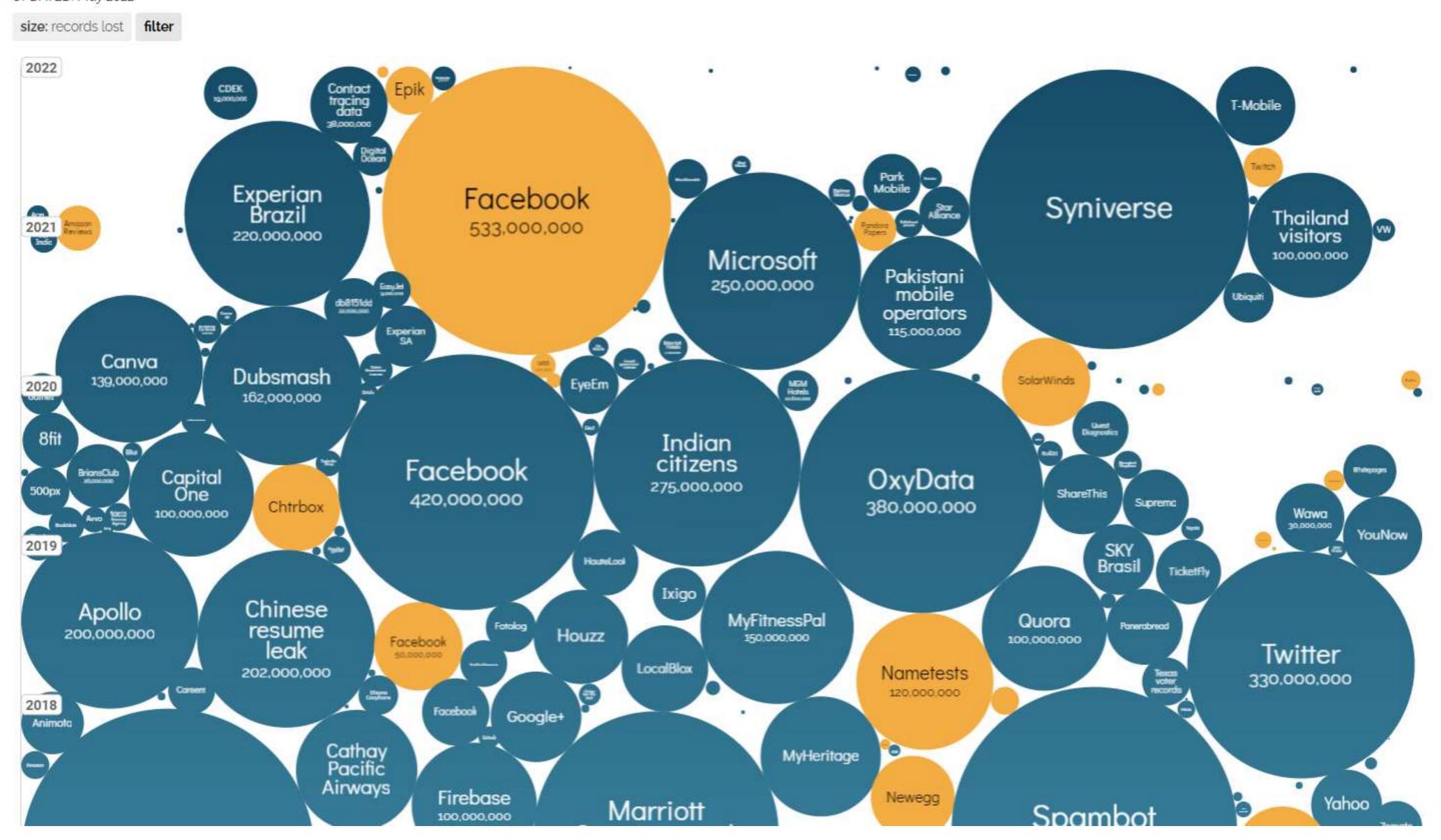


World's Biggest Data Breaches & Hacks



2022

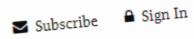
Selected events over 30,000 records





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CONNECT ()

Financial Sector Cybersecurity

Financial institutions are leading targets of cyber attacks. Banks are where the money is, and for cybercriminals, attacking banks offers multiple avenues for profit through extortion, theft, and fraud, while nation-states and hacktivists also target the financial sector for political and ideological leverage. Regulators are taking notice, and implementing new controls for cyber risk to address the growing threat to the banks they supervise. The Strategic Technologies Program s dies the evolution of cyber threats to the financial system and legal and regulatory **Gulf Business**

The Middle East is one of the world's fastest-growing financial hubs with the banking and finance services sector having seen immense transformation and innovation in

However, organisations in the financial sector face a hostile threat landscape, as they are often the preferred targets of profit-seeking cybercriminals. According to Group-IB, ransomware gangs published information about 127 financial sector victimcompanies, including from the UAF, on data leak sites, while a year ago, the number was less than 50. Another threat came from initial access brokers: Group-IB's MEA Threat Intelligence & Research Center witnessed 95 cases of threat actors selling access to systems belonging to financial companies located in 25 countries, including organisations in the UAE and Saudi Arabia. In fact, a recent report by Financial Services Information Sharing and Analysis Centre, (FS-ISAC) predicted that financial firms may experience more cyber-attacks this year. In these difficult times, we need to use symmetrical measures to protect business, especially in the financial sector, as cybercriminals have become bolder and more aggressive.

Recognising the threat, countries in the Middle East regularly come up with new measures to curb cybercrime. For example, in November 2021, the UAE Central Bank established a new Networking and Cyber Security Operations Centre to help defend the financial system's IT infrastructure against cyberattacks. Moreover, the Saudi Arabia Monetary Authority (SAMA) has issued a cybersecurity framework to enhance the cybersecurity posture of financial institutions.

NEWS 2022



INTERNATIONAL MONETARY FUND

Cyber threats to the financial system are growing, and the global community must cooperate to protect it

In February 2016, hackers targeted the central bank of Bangladesh and exploited vulnerabilities in SWIFT, the global financial system's

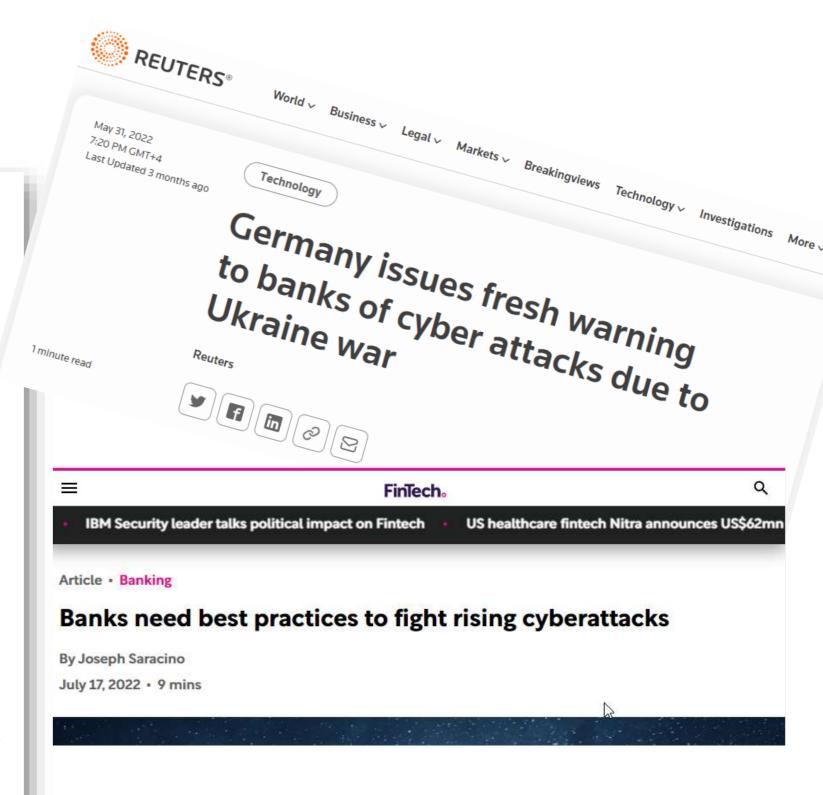
- lectronic payment messaging system, trying to steal \$1 billion. most transactions were blocked, \$101 million still disappeared. eist was a wake-up call for the finance world that systemic risks in the financial system had been severely underestimated.
- y, the assessment that a major cyberattack poses a threat to ncial stability is axiomatic – not a question of if, but when. Yet the

Figure 3: The United States was the costliest country for average total cost of a data breach for the 12th year in a row.

The top five countries or regions with the highest averag cost of a data breach were:

- The United States USD 9.44 million
- 2. The Middle East USD 7.46 million
- Canada USD 5.64 million
- The United Kingdom USD 5.05 million
- Germany USD 4.85 million

Source: Cost of a Data Breach Report 2022 / IBM Security



REUTERS®

Europe

Montenegro's state

attack -officials

infrastructure hit by cyber

August 26, 2022

Last Updated 2 days ago

9:43 PM GMT+4

NEWS - JAN-FEB 2021



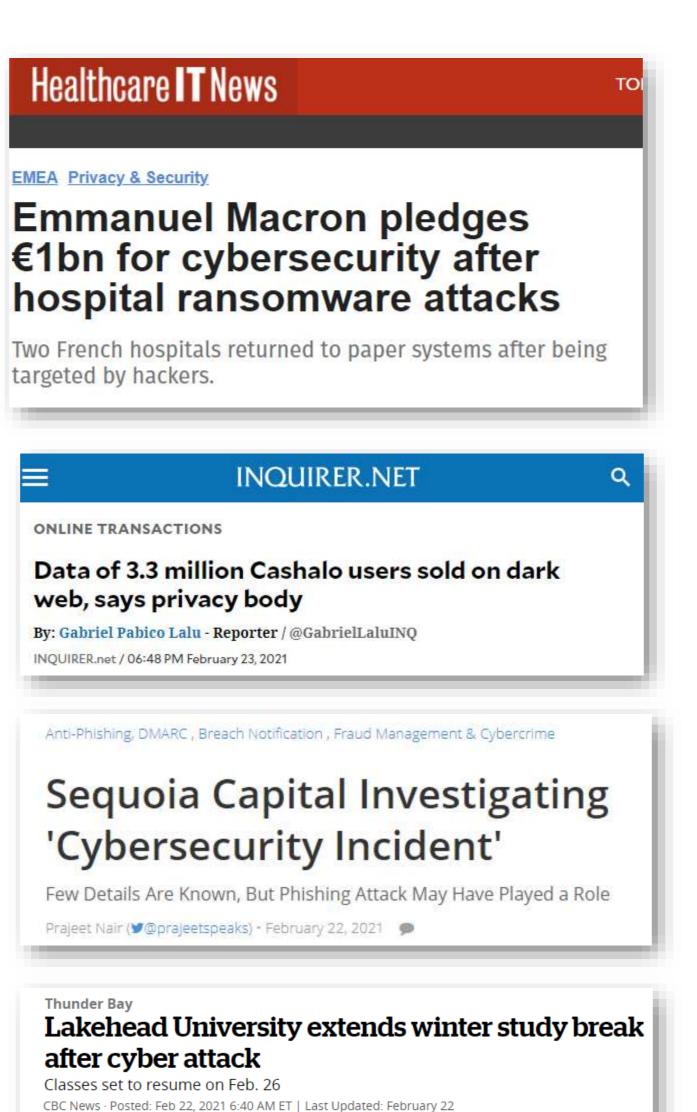


United States were the result of a ransomware attack.



Cyber crime will cost the global economy \$6.1 trillion annually if we are not careful

Published: January 12, 2021 12:09 **Gulf News Report**







MAJOR THREATS

- Ransomware
- Phishing
- Shutdown of Websites
- Attack on Critical Systems
- Theft of Data / Data Leak
- Insider Threats
- Malware Attacks



SOME CONSEQUENCES OF A CYBER ATTACK

- Disruption of Business
- Financial Loss
- Reputational Damage
- Legal Ramifications
- Loss of Sensitive Data
- Identity Theft
- Operational Downtime



HOW TO SECURE YOUR IT INFRASTRUCTURE

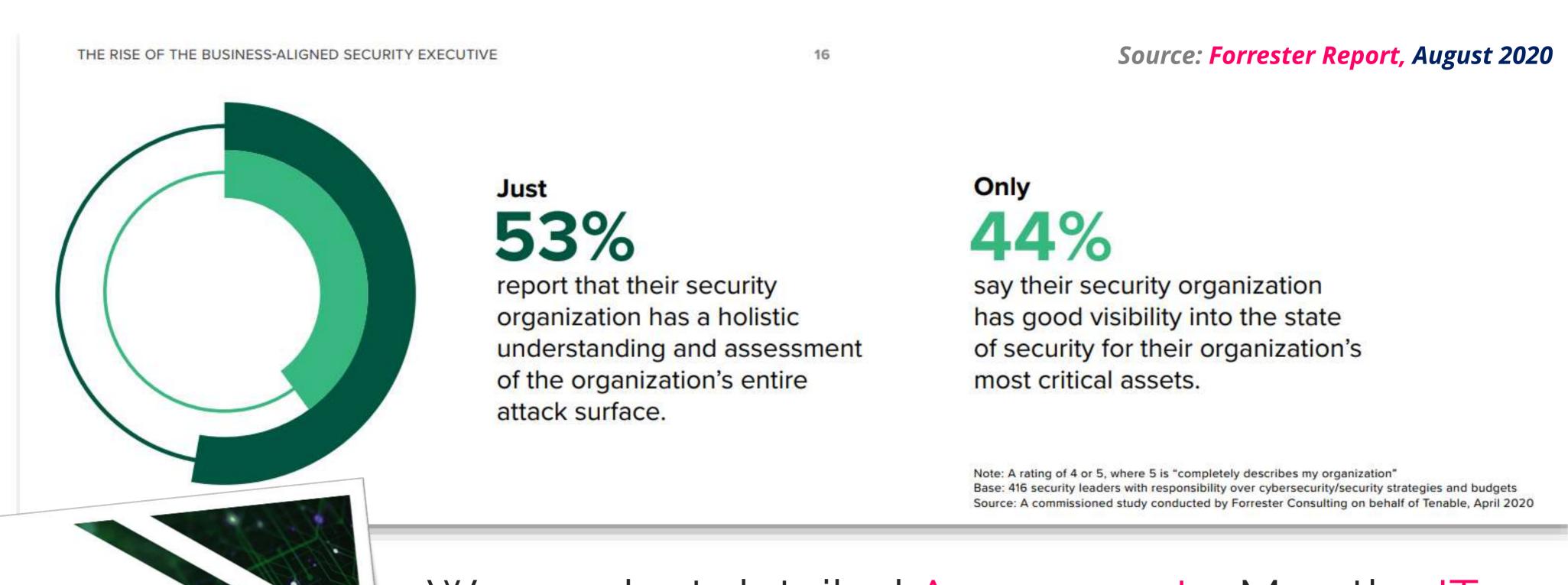
- Identify your IT Assets Build/Review IT Assets Inventory
- Prepare or Update your IT Architecture (Maps, Diagrams)
- Conduct a Vulnerability Assessment (Tool Based)
- Conduct Controls Assessment

(ISO27K, HIPAA, PCI-DSS, NESA, CSA-CCM, NIST-CSF, SWIFT, ADHIC)

- Identify Gaps
- Prepare a Response Plan



DO YOU HAVE GOOD VISIBILITY IN IT?





We conduct detailed Assessments, Map the IT Architecture, Compile Asset Inventory for 360° visibility of your IT Infrastructure



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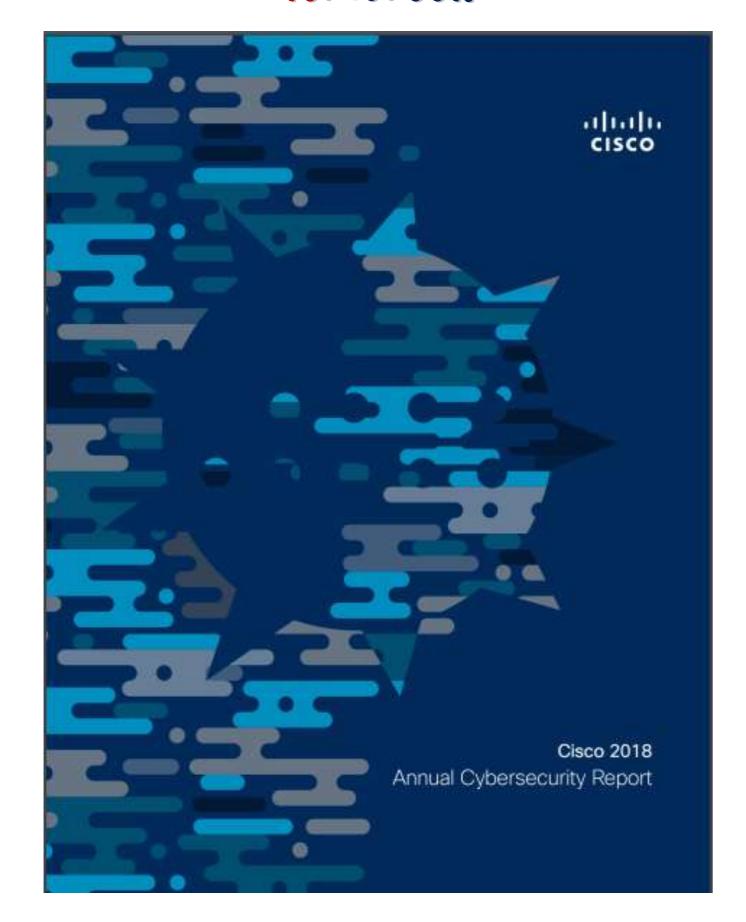
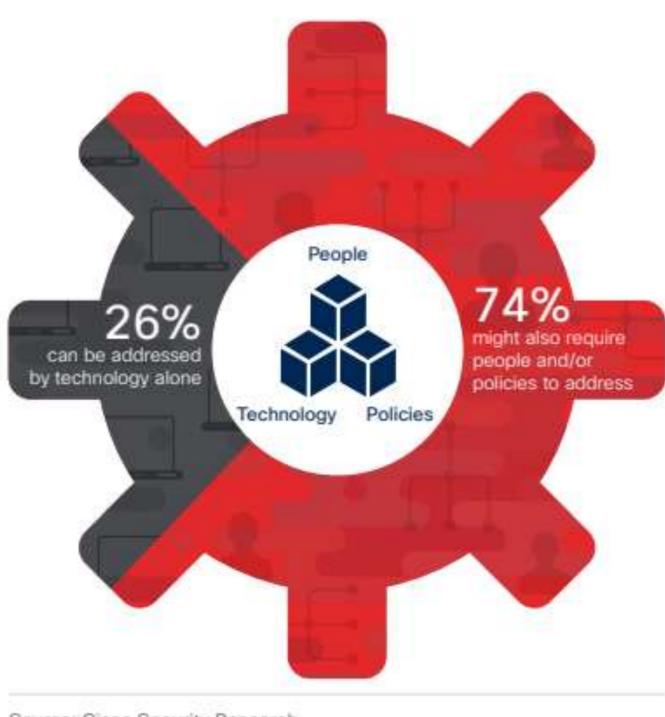


Figure 53 Only 26 percent of security issues can be addressed by products alone



Source: Cisco Security Research

"Only 26 percent of security issues can be addressed by products alone.

74% might also require people and/or policies to address"

REGULATIONS, GUIDELINES

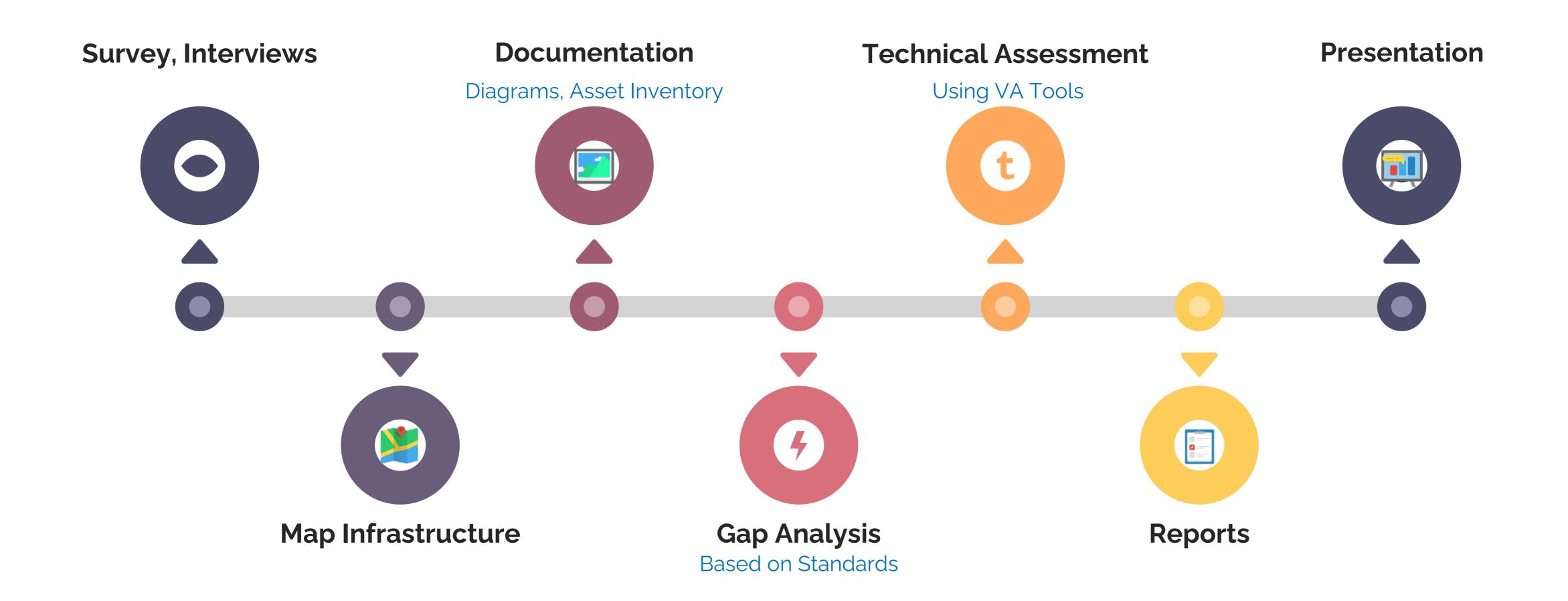
Internal and external information security assessments are required for compliance in a number of regulations in the GCC. For example, in the UAE:

- Central Bank Regulation for Finance Companies
- Central Bank Consumer Protection Regulation
- Central Bank Consumer Protection Standards
- CB: The Standards for Regulation regarding Licensing and Monitoring of Exchange Business

Other standards such as NESA, ADSIC, UAE Information Assurance, Dubai-ISR, UAE Federal Data Protection Law (DPL, Law No.45), ADHICS, SAMA, CMA guidelines in Oman require that organisations conduct assessments regularly.



OUR APPROACH

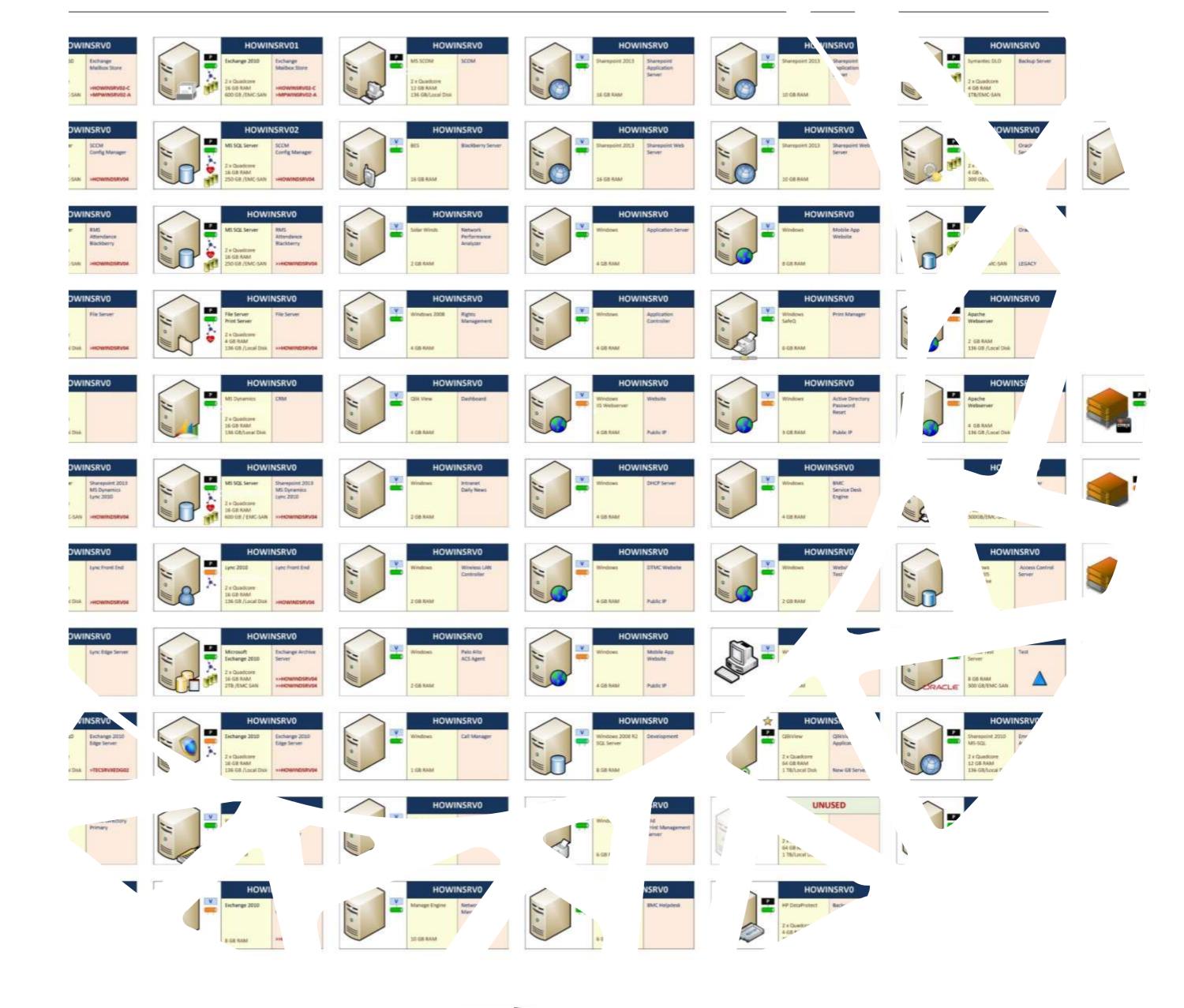




SAMPLE DELIVERABLES

- Documentation

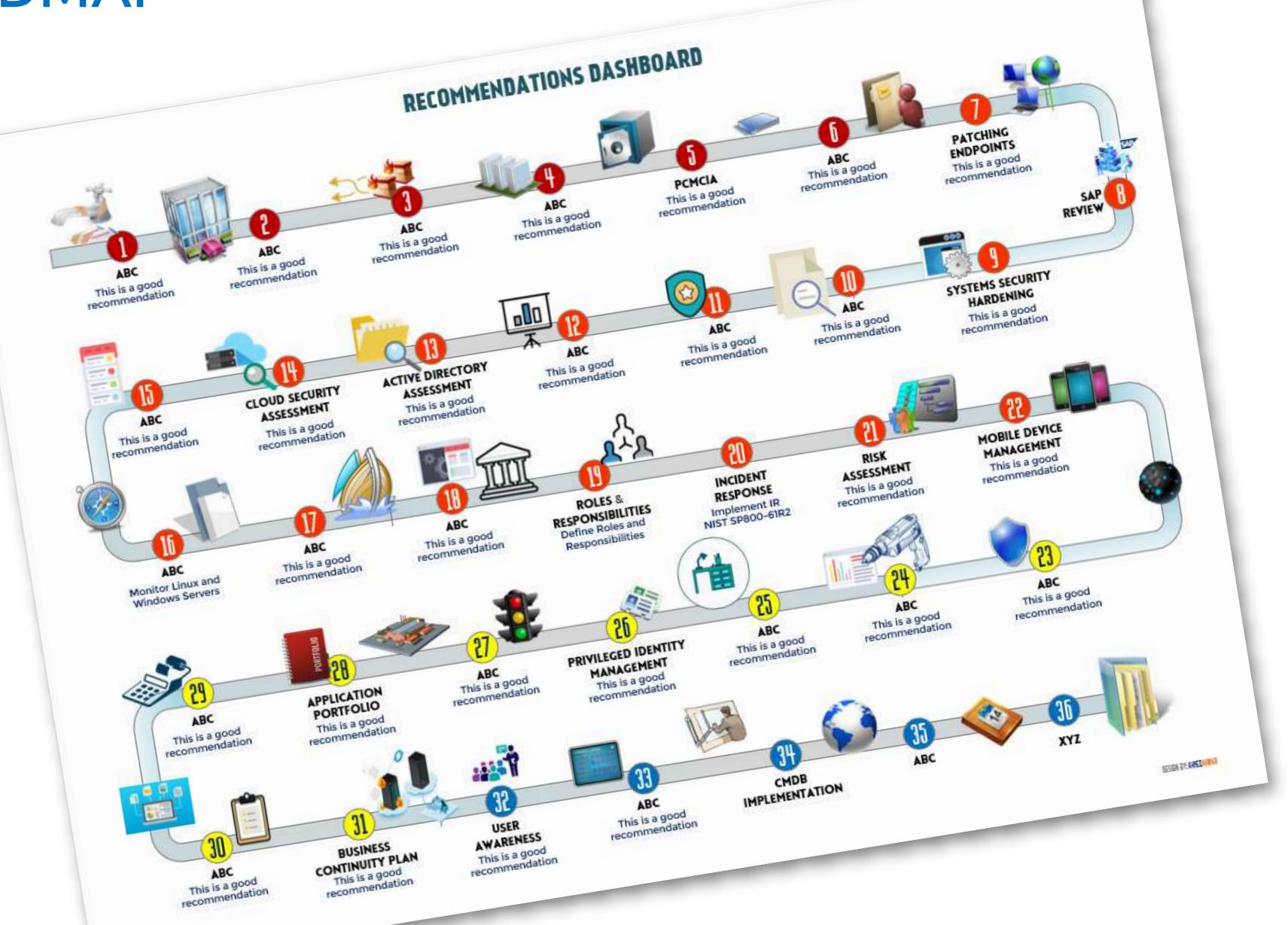
 Mapping the Security Architecture
- Gap Analysis Report
- Infographics
- Asset Inventory
- Risk Assessment Report
- Implementation Advice
- Recommendations
- Workshops





ACTIONABLE ROADMAP

One of the key products of our assessment is an actionplan and a prioritized list of activities, projects required as a roadmap towards infosec maturity. In addition to detailed reports we create attractive dashboard that is easy for non-technical managers to understand and follow the progress.







Documentation

Security Architecture

IT Infrastructure Architecture

Diagrams: Network, Topology, etc

Asset Inventory

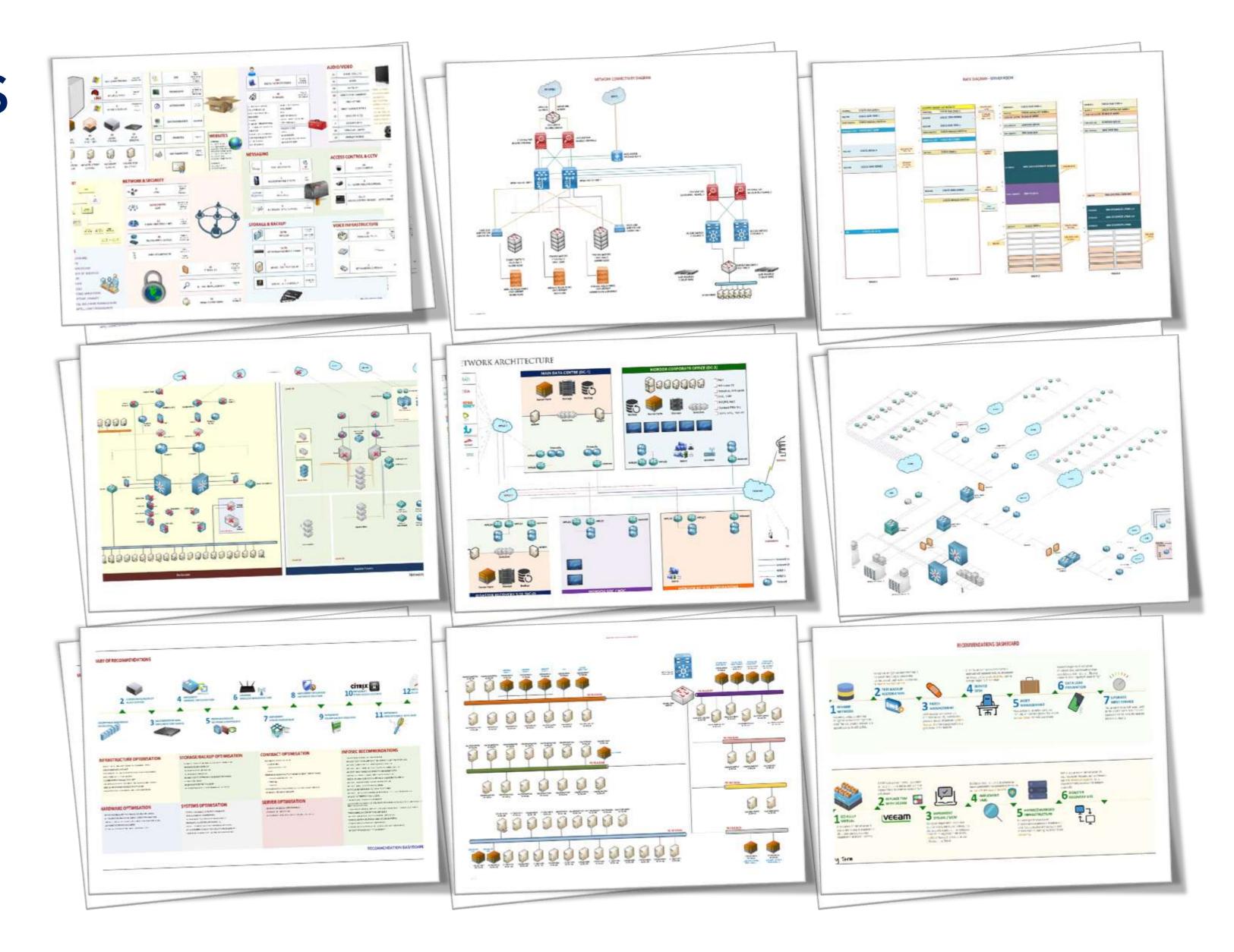
Application Portfolio

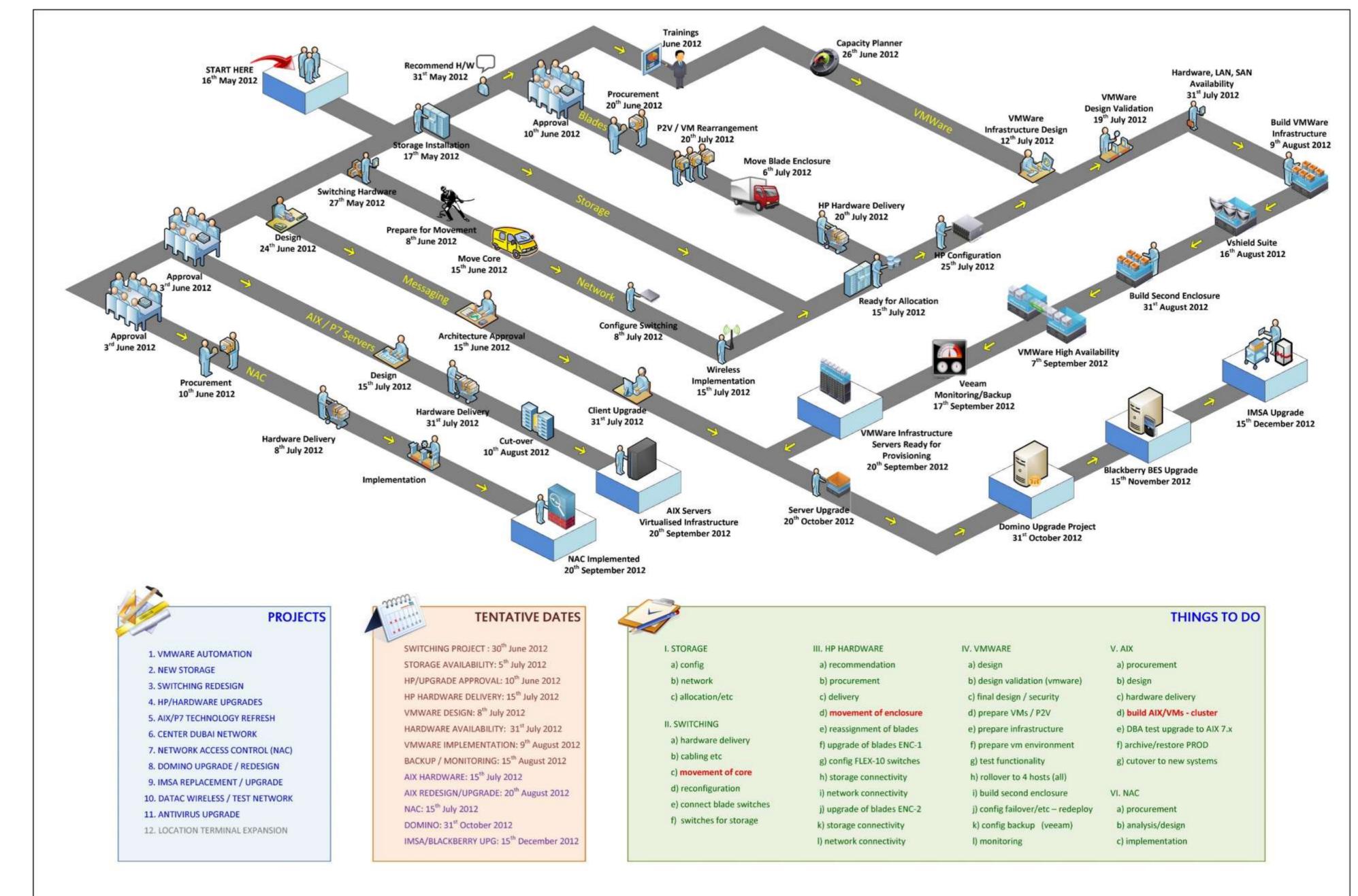


SAMPLE DIAGRAMS

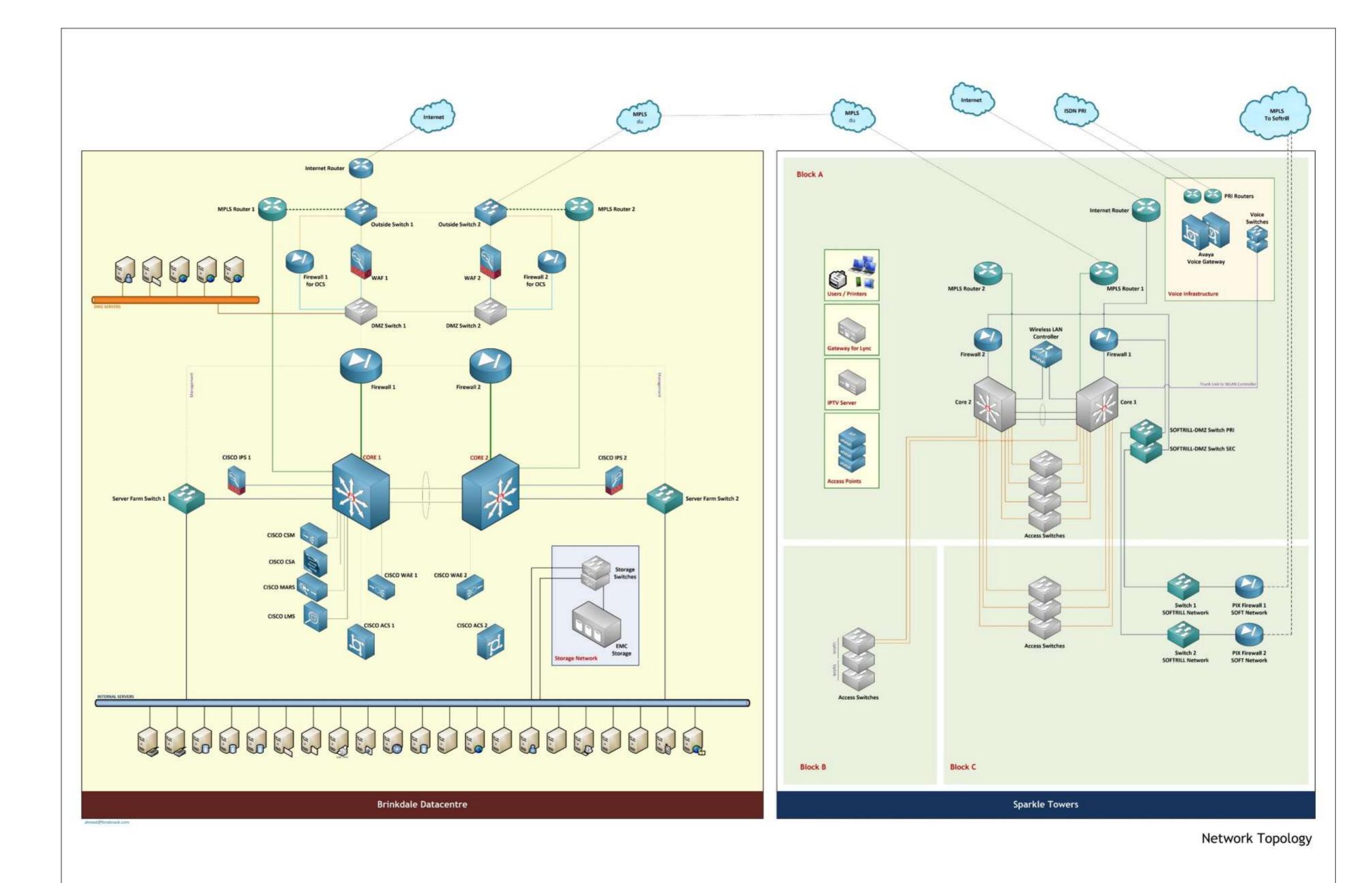
We create diagrams of your infrastructure mapping the architecture and charting network topologies, server topologies, server distribution, infrastructure dashboards, recommendation roadmap etc.





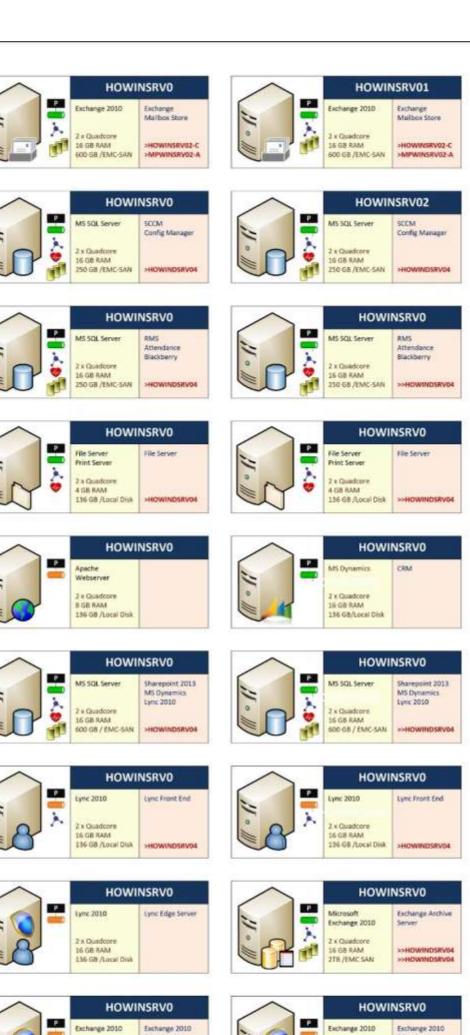






















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MORE ABOUT OUR CLOUD SERVICES

01

Feasibility Studies

We conduct detailed studies to help you make informed decision on the cloud with cost estimation and Rol

02

Migration and Management

We make plans for migrating your infrastructure or services and help you manage your cloud assets

03

Cloud Security

We guide you assess cloud related security risks (OWASP-Cloud-Top10) and help you implement mitigation controls

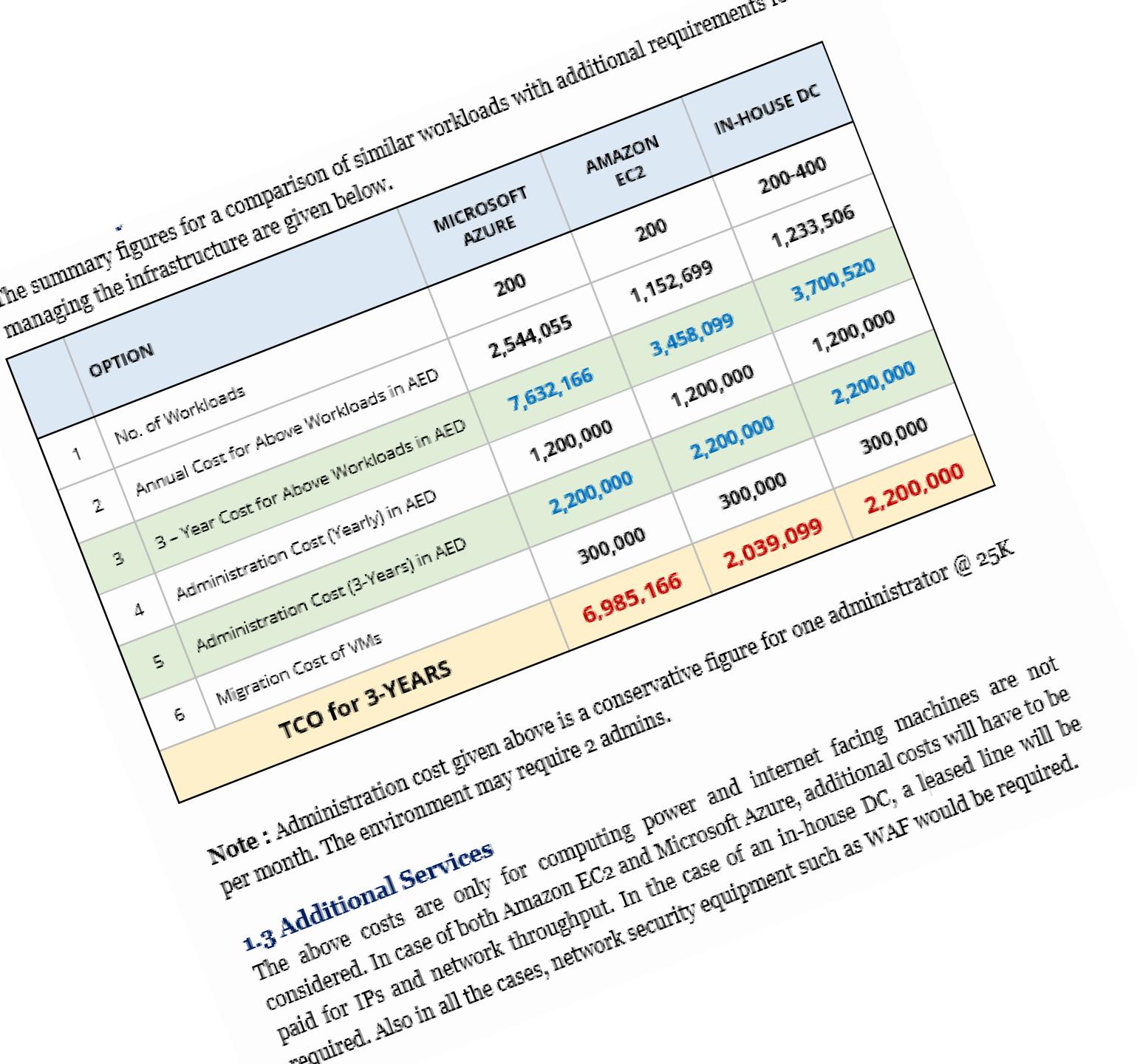












COST COMPARISON & FEASIBILITY

From a sample report where existing workloads were sorted and similar workloads were computed for cost and admin.



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We specialise in information security, IT governance, IT infrastructure and cloud services. We are not box-pushers; we will help you minimise them. Think forebrook. Think services; not boxes.



INFORMATION SECURITY

Security Assessments, ISMS

Architecture & Design, CIS-CSC Review

& Implementation, VA/PT



IT INFRASTRUCTURE

Infrastructure Assessment,
Optimisation, EA based
Design, ITSM Process Design
& Implementation



CLOUD SERVICES

Feasibility Studies, Migration
Planning & Implementation,
Cloud Assets/Services
Management, Cloud Security



IT GOVERNANCE

Compliance Review for ISO 27001, PCI-DSS, Dubai-ISR; COBIT 2019 Review and IT Audits, IT Disaster Recovery





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