

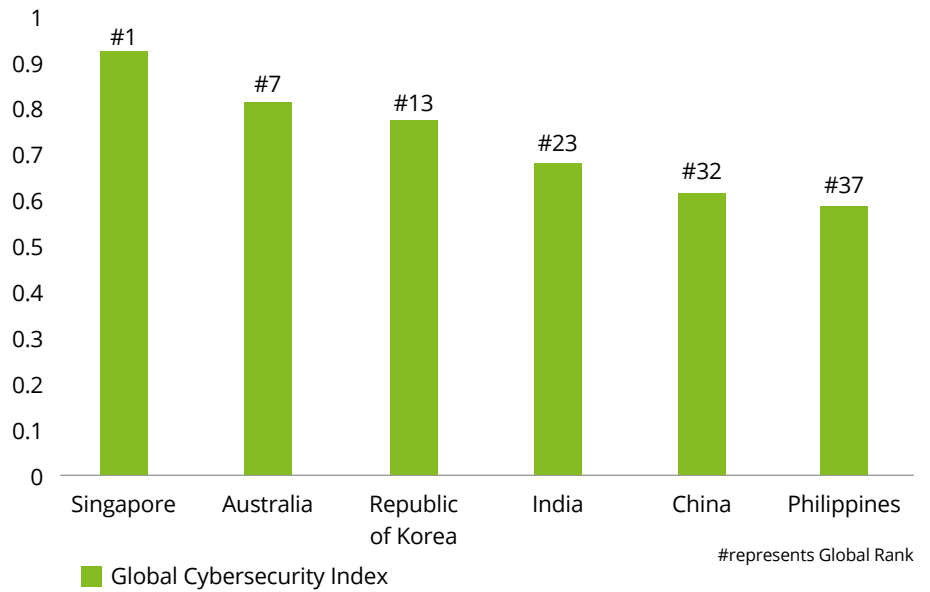
Introduction

Security is becoming a rapidly evolving and complex issue that various organizations are contending with today. It continues to be one of the most pressing challenges faced by Chief Information Officers (CIOs) and Chief Information Security Officers (CISOs) today. With the increasing impact of social media, smart devices and mobility, organizations are becoming more vulnerable to fraud and privacy breaches. Globally, security has risen to be one of the top concerns in almost all areas from defence, corporate organization, smart cities, etc.

With the increasing volume of data generated by organizations, instances of cyber-attacks, loss of sensitive information, and security breaches are becoming increasingly common. Increasing internet penetration is leading to expansion of cyber space which in turn is leading to increasing attacks on sensitive intellectual property. This has resulted in the transformation of the IT landscape at a very rapid pace.

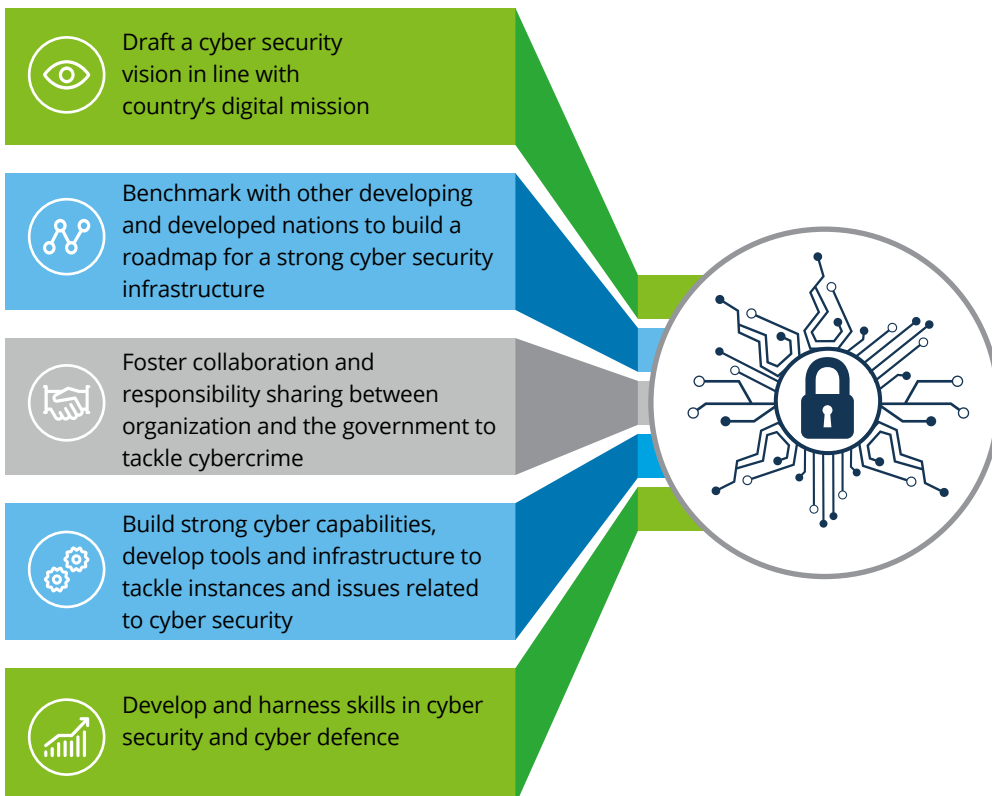
According to The Global Cyber Security Index released by the UN telecommunications agency International

Global Cyber Security Index by International Telecommunications Union (ITU), 2017



Telecommunication Union (ITU) in 2017, only about half of all countries have a cybersecurity strategy or are in the process of developing one. The index, which saw India at 23rd position, was topped by Singapore at 0.925. India has also been ranked fourth globally among the countries most affected by ransomware.

Key considerations for an effective cyber security strategy



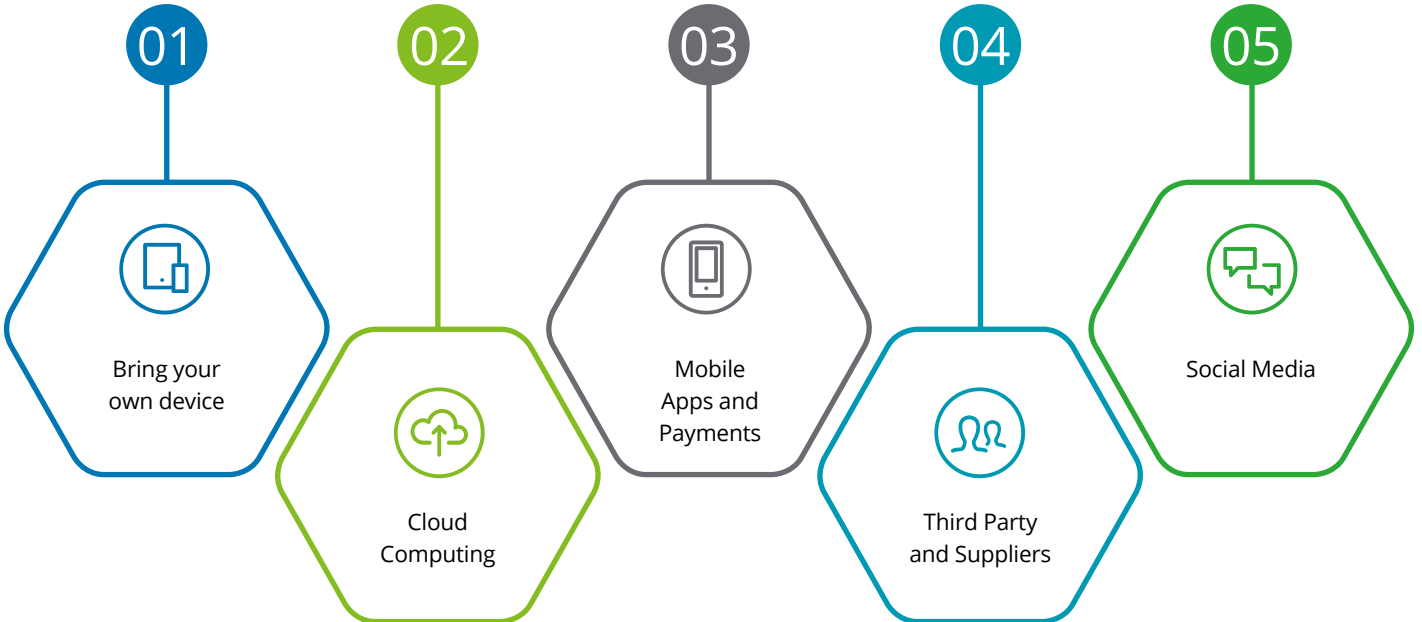
“Today, it’s not a question of “if,” but rather “when” your network will be breached.”

Trends Resulting in Increased Focus on Cyber Security

Security is becoming a growing concern for organizations across domains due to increasing instances of cyber-attacks and changing technology landscape,

consumer behavior and regulatory requirements. Some trends which lead to increased focus on cyber security are listed below:

Trends leading to focus on Cyber Security



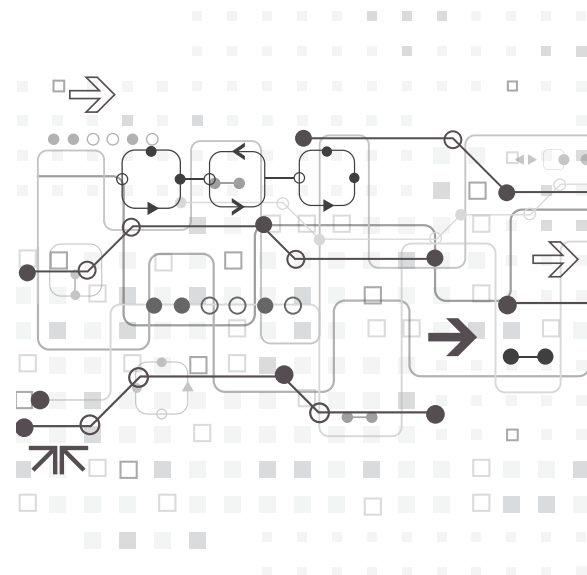
Source: Deloitte Report – Digital Revolution Forward Path for Telecom

Bring Your Own Device (BYOD)

Today, employees own powerful devices (smartphones, tablets) in order to fulfill their requirement of working anytime and anywhere and handle most of the business activities related to emails, documents, spreadsheets, etc. These devices are also used for extensive use of social media and accessing data stored on cloud. Use of business data and personal applications on a single device makes the device an easy target for attackers. There is an increased risk due to these devices since a large number of them are not managed by the organization's IT department.

Cloud Computing

Many organizations make use of cloud computing for their applications and data. This may lead to ease of use but often trumps security if it is not managed well. Since it is difficult to determine the physical location of the data stored in the cloud we might not know which regulations apply to it. Applications and data managed from outside the organization through cloud increases the organization's vulnerability to security risks.



Third Parties and Suppliers

Today, in this world of outsourcing, digital supply chains and cloud computing, organizations are more dependent than ever on third parties. This results in organization's data being shared and exposed in ways which are difficult to control. A breach in the digital supply chain undermines the security of every organization involved in the chain.

Mobile Apps and Payments

In order to grow the business, various organizations (like e-Commerce players etc.) are launching mobile applications for their users. They encourage users to make mobile payments. Authorities are promoting payment through mobile/digital means instead of cash. Though this is a valuable proposition for all stakeholders, inclusion of monetary transactions could increase the cyber risk exposure.

Social Media

Use of social media has increased drastically over the last few years. Increasing internet infrastructure and data availability, decreasing data charges and advent of cheaper smartphones have enabled the users to access social media and share information more frequently. Such increase in sharing of information has resulted in revealing sensitive information posing privacy-related issues.

Cyber Security Capabilities



Source: Deloitte Framework

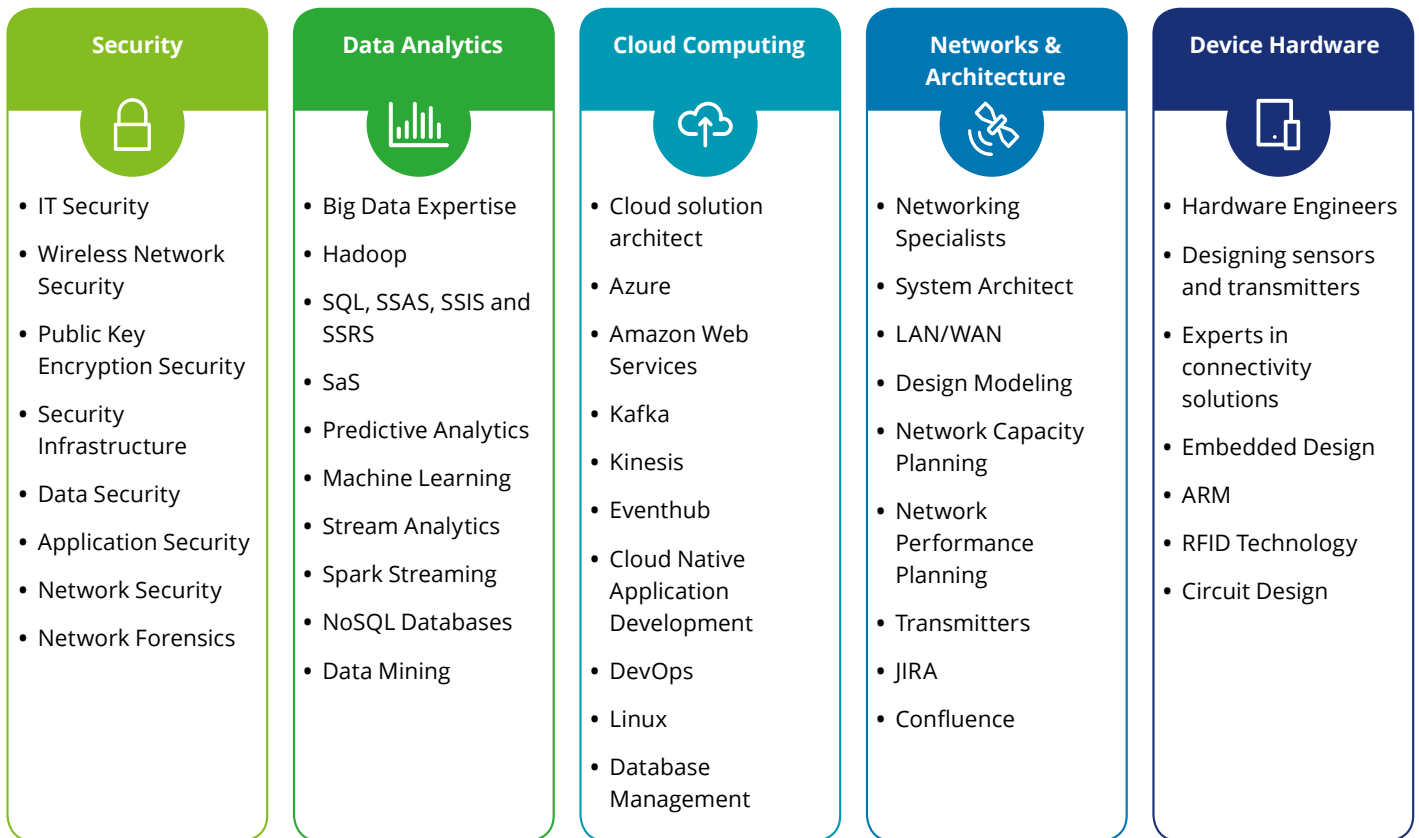


Key Skill-sets

Cyber security skills landscape is large and still growing. There is high demand of cyber security professionals across

domains. A diversified skill-set is required for a cyber-security professional. Some of the skills are listed below:

Cyber Security Skill Sets



Source: Industry Reports

Conclusive Remarks

Though most organizations realize the importance of cyber security for their businesses and understand the associated risks, they often come short of a holistic, business-driven and threat-based approach to manage cyber risks. While securing assets is important, being vigilant and resilient in the face of cyber-attacks is imperative. Along with cybersecurity policies, tools, and practices, cultivating a cyber-risk aware culture across the organization will increase their ability to effectively manage emerging cyber risks.



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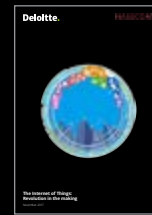
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