

Technical -Approach

# Network Security Architecture Review

 **Infopercept**

**IN** **SENSE**

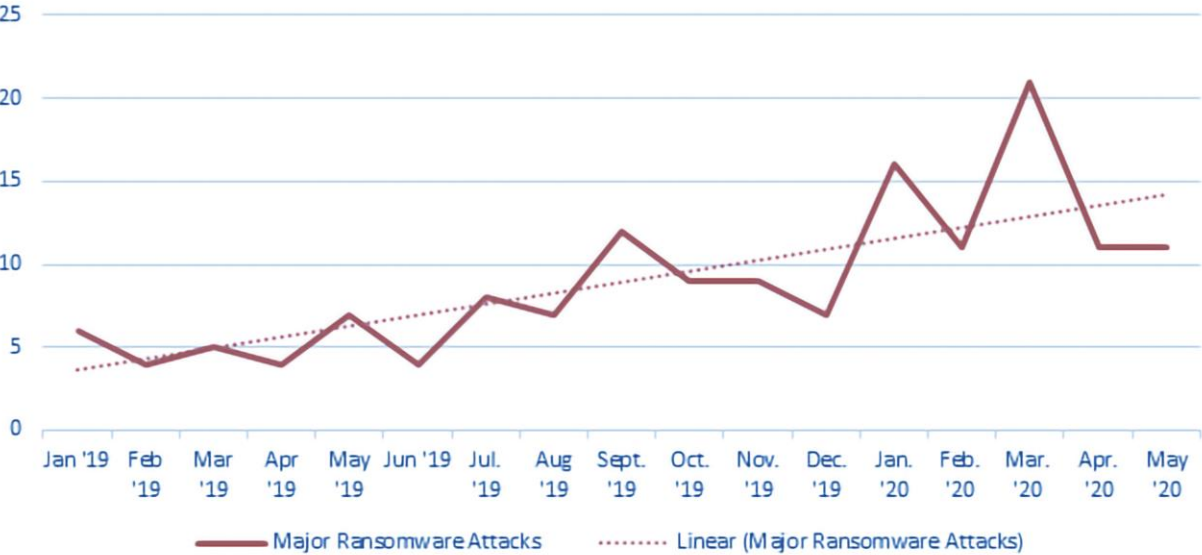


# Introduction

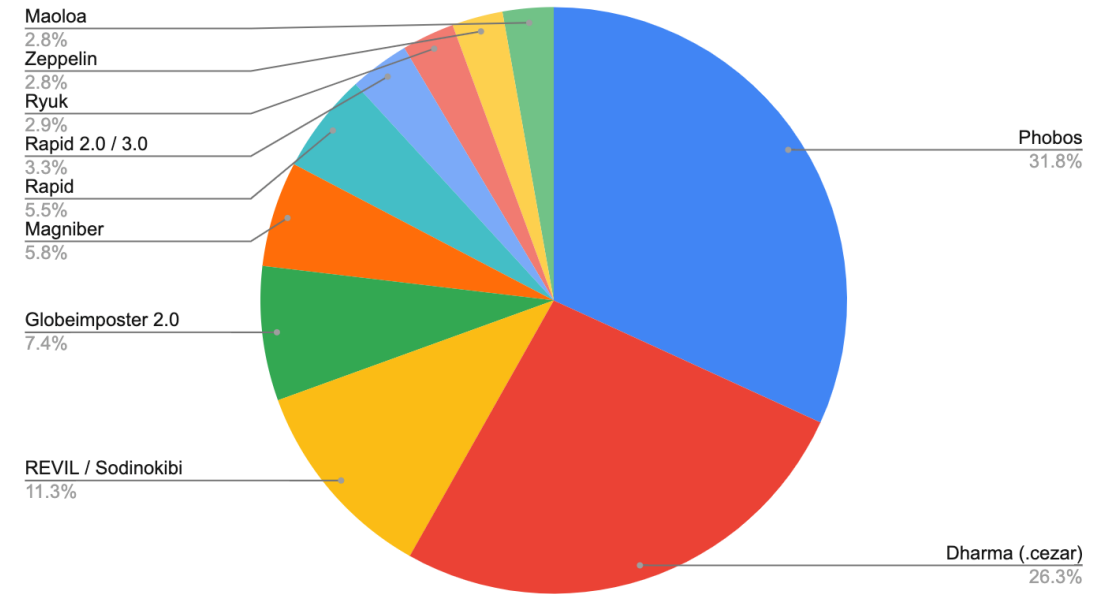




Ransomware attacks during previous 12 months

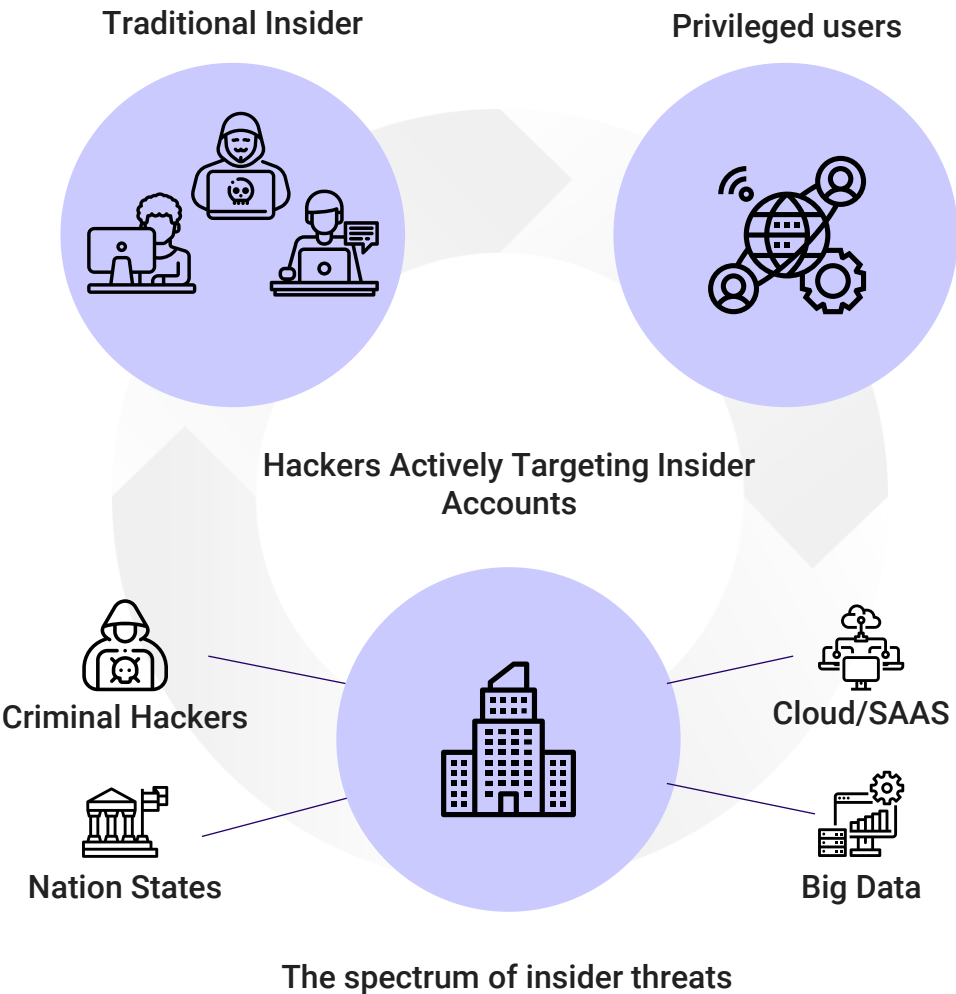
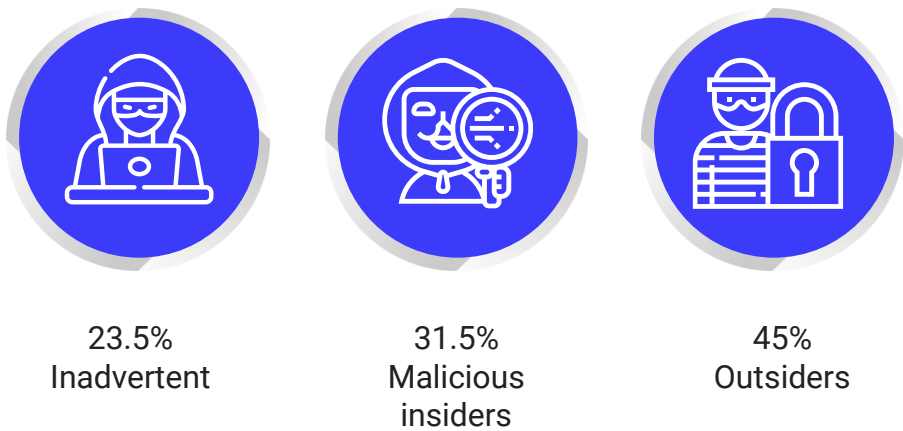


Most commonly reported ransomwares





Recent data from IBM Security Services shows 55% of all attack were found to be carried out by malicious insiders or inadvertent actors





# Need for network security



- To improve network security awareness
- To assess risk
- To mitigate risk immediately
- To reinforce the network security process
- To assist in decision making processes
- To Validate that current security mechanisms are working
- Compliance to various security standards and regulations such as ISO 27001, IT ACT 2000, SOX, HIPAA, PCI, etc.



# What is network security?







Our Network Architecture Reviews will help you identify configuration and topology issues through analysis of the design and configuration of the network.

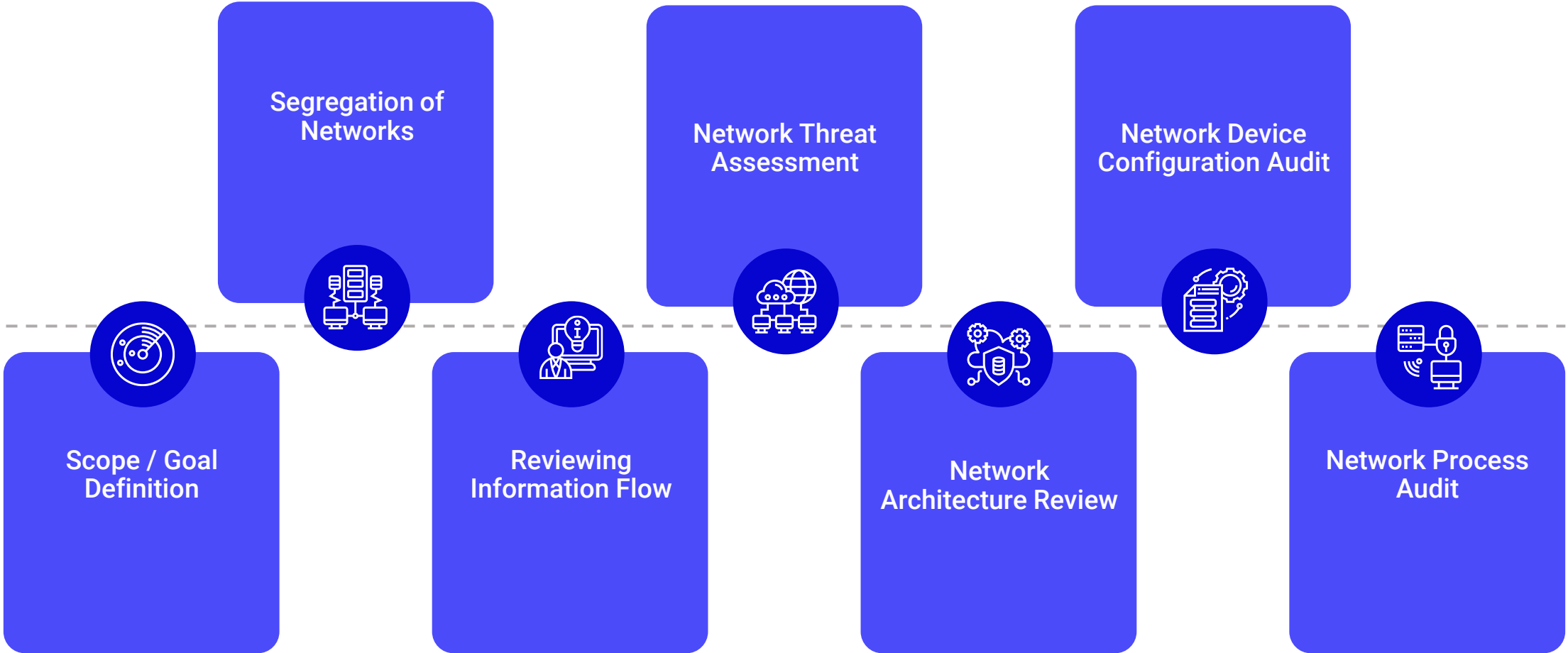
Regardless of recent improvements in network performance and capacity, it is essential for network administrators to periodically assess the reliability of network technology and its ability to meet business needs. Consequently, network performance assessments can help organizations determine whether the programs, hosts, and applications that are installed on the corporate network function properly.





# Methodology







## 1. Scope/Goal Definition

- Understanding the companies Network Infrastructure / Network Topology
- Number of Branches and its location
- Locations of Data center
- Inclusion / Exclusion

## 3. Reviewing Information Flow

- Understand critical business applications and their flow
- Understanding the flow of information for critical business applications such as E-Mail, Internet to analyze the various risks the data and corresponding systems are exposed too.

## 2. Segregation of Networks

- Ensuring that the network has been designed as per RFC 1918 addressing.

## 4. Network Threat Assessment

### Threats facing the network

- Evaluating the network and the systems against current network threats.
- Some of the threats that today's network are subjected too include buffer overflow, IP Spoofing, Identity spoofing.
- The current network's implementation shall be audited so as to analyse if it can effectively mitigate the network threats



## 5. Network Architecture Review

### Component Placement Review

- Checking the presence/absence of key access control devices for a secure network architecture posture.
- Firewalls are the most common form of access control devices and need to be suitably placed to protect all external and internal connections to the network.

## 7. Network Process Audit

Auditing the network process against industry best practices. The network process audit shall cover areas such as incident management, change management, backup, network monitoring, network documentation, security reviews

## 6. Network Device Configuration Audit

### Network Device Audit

- Auditing the network devices against industry best practices





## Organize Data/related results for Management Reporting

- Consolidation of Information gathered.
- Analysis and Extraction of General conclusions.
- Recommendations.



Infopercept's vision and core values revolve around making organizations more secure through the core values of Honesty, Transparency and Knowledge, so as to enable them to make better informed decisions about their security practices & goals. With our synergistic vision to combine technical expertise and professional experience, we aim to further establish our place as a one stop shop for our clients and partners' cybersecurity and accreditation needs.

Our specialized core team comprises experienced veterans, technical experts & security enthusiasts having good practical experience & thorough knowledge in the Cybersecurity domain, latest trends, and security innovations; ensuring that you always get the best security approach & solution for your specific business needs exactly the way you want it to be.

## Imprint

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