Information Security

Policies, Procedures & Security Baselines

<u>Objective</u>

What is Policy, Procedures and Security Baselines?

Why are they required for the organization?

How can the help the organization?

How to select Information Security Governance as a career path?

Information Security Policy (To Do)



- Directive
- High Level statement
- Outlines security Goals
- Adherence is Mandatory
- Clear and simple
- Board shall approve the policies

Examples,

Acceptable use policy

Data Classification

Information Security Procedure (How to do)

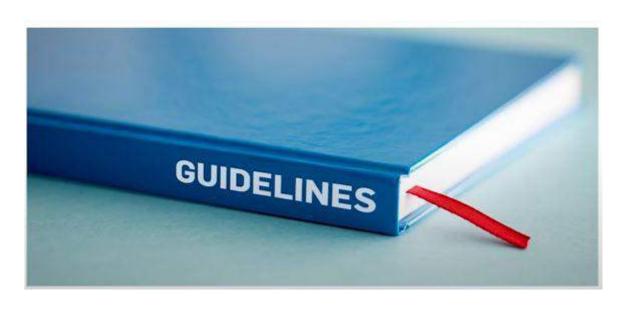


- Mandatory step by step instruction to complete a process or task.
- Like a tutorial very detailed
- Produce repeatable result.
- Aids –Someone who is new to role.
- Format of SOP will be defined by the organization.

Document Owner Responsibility

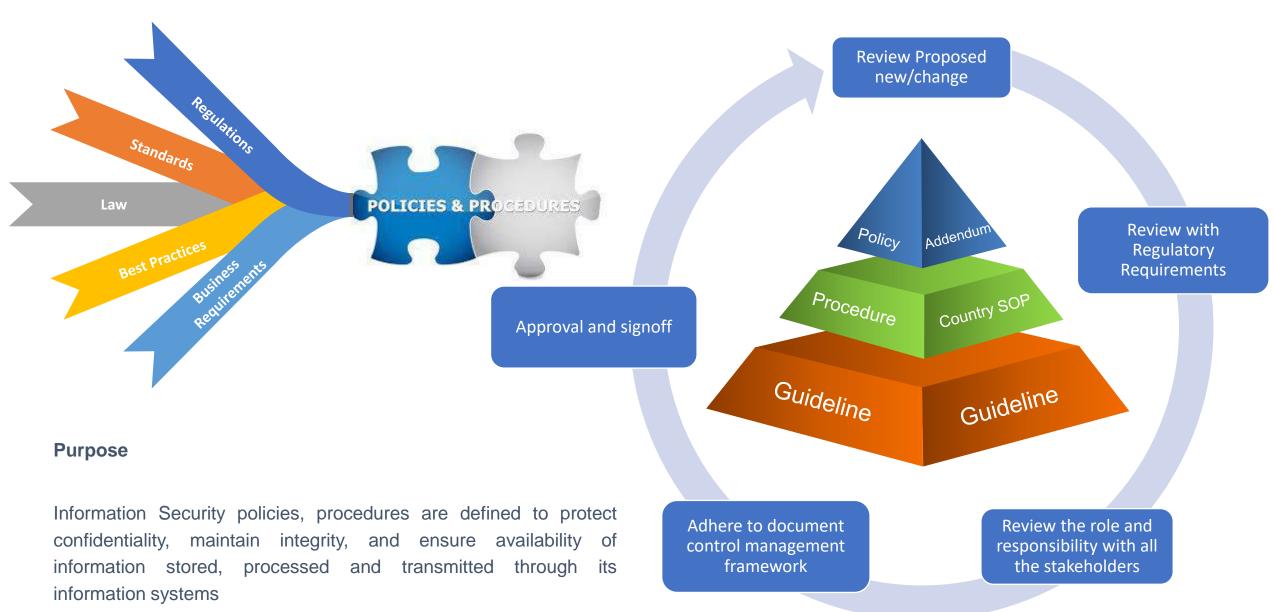
- Responsible Circulate and obtain approval from all stakeholder.
- Maintain editable version of document.
- Provide training for effective implementation of SOP
- Ongoing Monitoring and periodic review.

Guideline (Guide to do)

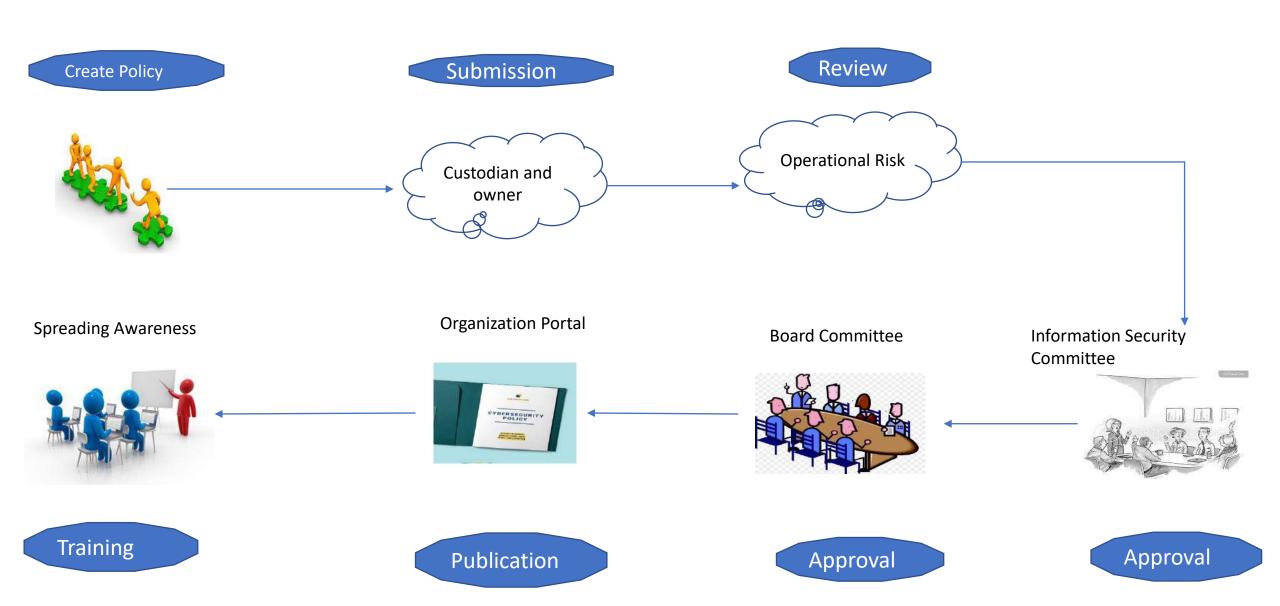


- Recommendations –Outline best practice
- Suggestions Not mandatory
- Not required Help employees follow the rule
- User friendly Screenshots and diagrams can be included.
- Avoid word like shall, will or must

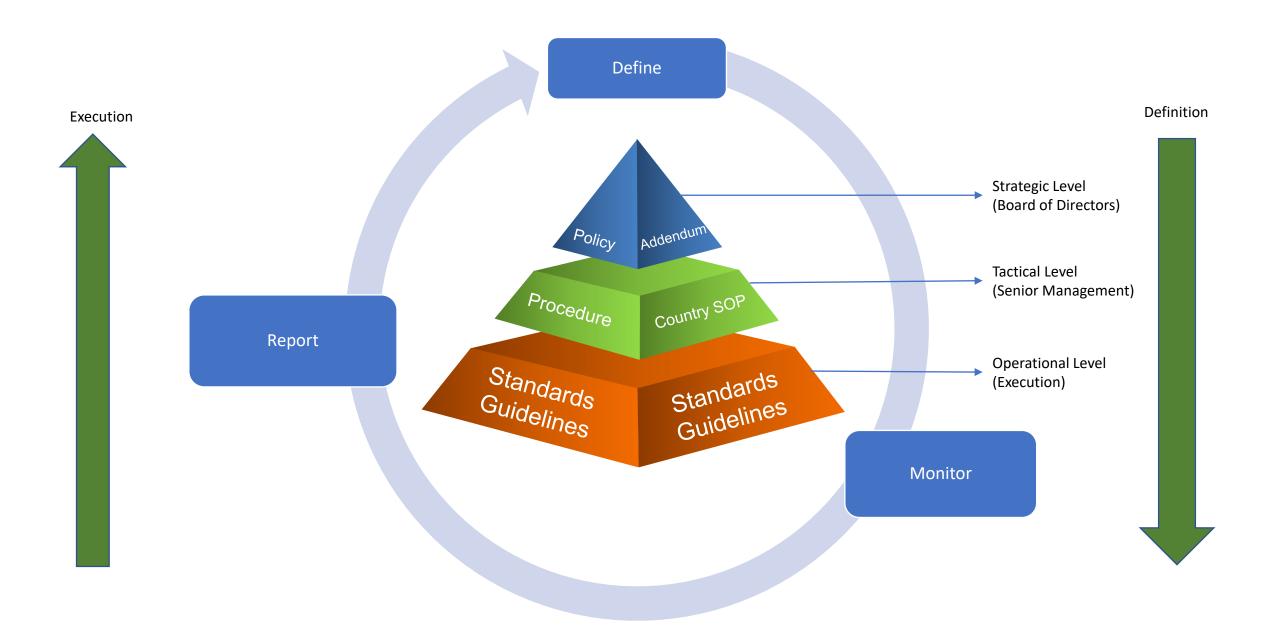
Policy & Procedure



Policy Management Lifecycle



Policy Governance Framework



What is MSB?

It's a bare minimum-security baseline standards (hardening guide) to be applied on Various technologies (OS, Database, Security Devices, Network devices, storage, etc.)





Why is MSB needed?

The basic purpose of implementing MSB

(Hardening Guide) is to primarily it is to minimize the risk of inherent vulnerabilities due to vendor default configurations.

(L1) Ensure 'Enable RPC Endpoint Mapper Client Authentication' is set to 'Enabled' This policy setting controls whether RPC clients authenticate with the Endpoint Mapper Service when the call they are making contains authentication information. The Endpoint Mapper Service on computers running Windows NT4 (all service packs) cannot process authentication information supplied in this manner. By Default this setting is set as disabled

The recommended state for this setting is: 'Enabled'.

Anonymous access to RPC services could result in accidental disclosure of information to unauthenticated users.

Why?

Can Baseline help improve security?

PrintNightmare - Vulnerability

CVE-2021-34527

An attacker who successfully exploited this vulnerability could run arbitrary code with SYSTEM privileges. An attacker could then install programs; view, change, or delete data; or create new accounts with full user rights.

KB5005010

Mandates administrators to disable the Windows Print spooler service in Domain Controllers and systems that do not print. Additionally, administrators should employ the following best practice from Microsoft's how-to-guides



How to mitigate Print Spooler Print Nightmare vulnerability on Windows 10 | Windows Central

Insecure Services	Disable insecure services e.g. Telnet, SSH 1, and FTP, Unencrypted RDP, finger, rlogin. Note: If above is required its needs to be implement with secure features e.g. SETP Encrypted RDP and the overhional approval and compensating
Unused Services & Daemons	Disable unused services E.g. Network Share, Print Spooler, USB, CD/DVD and WIFI NIC wherever applicable.
Datab & Inchites	Davies should be undeted with M 1 Vension of notals and any switisel

Who can mandate MSB?



France: -

 European Central Bank - TARGET 2 Payment Standard (29 January 2021)

Hong Kong:-

HKMA TM-G-1

India:-

RBI Cyber Security Framework

KSA:-

SAMA- Cyber Security

Kuwait:-

Cyber Crisis Management Strategy and plan

Oman:-

 BM 1136 16062015 Security of Electronic Banking System

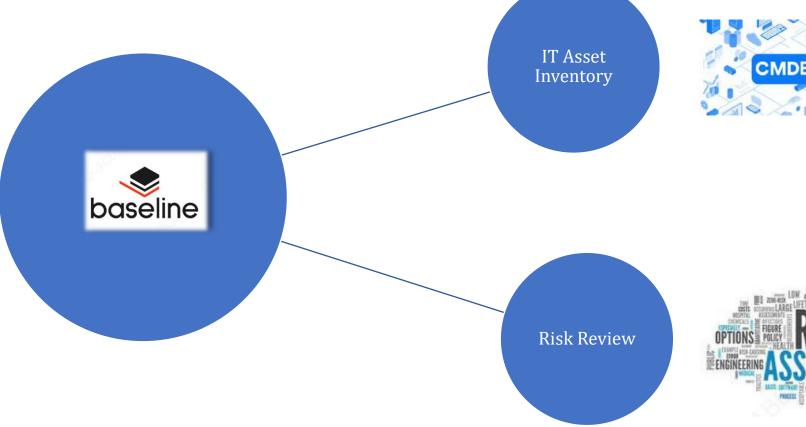
Singapore:-

 MAS - Technology Risk Management Guidelines

USA:-

- NIST SP 800-53 (Revision 4)
- FFIEC Information Technology Examination Handbook -Information Security

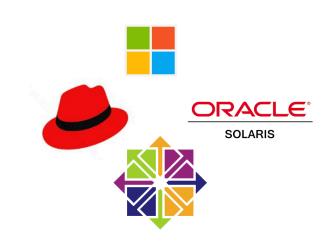
Technology Inputs



Technologies

Operating system

- Windows
- Red hat
- Solaris
- Centos









- IIS
- IBM WebSphere





- MS SQL
- Oracle DB
- Mongo DB
- Sybase
- MySql DB











Technologies

Network



- HP Switch
- Wireless Controllers
- Storage
- End Point Application





Gateway

- Firewall Devices
- IPS
- WAF
- VPN
- Proxy Devices
- Mail Gateway
- NAC







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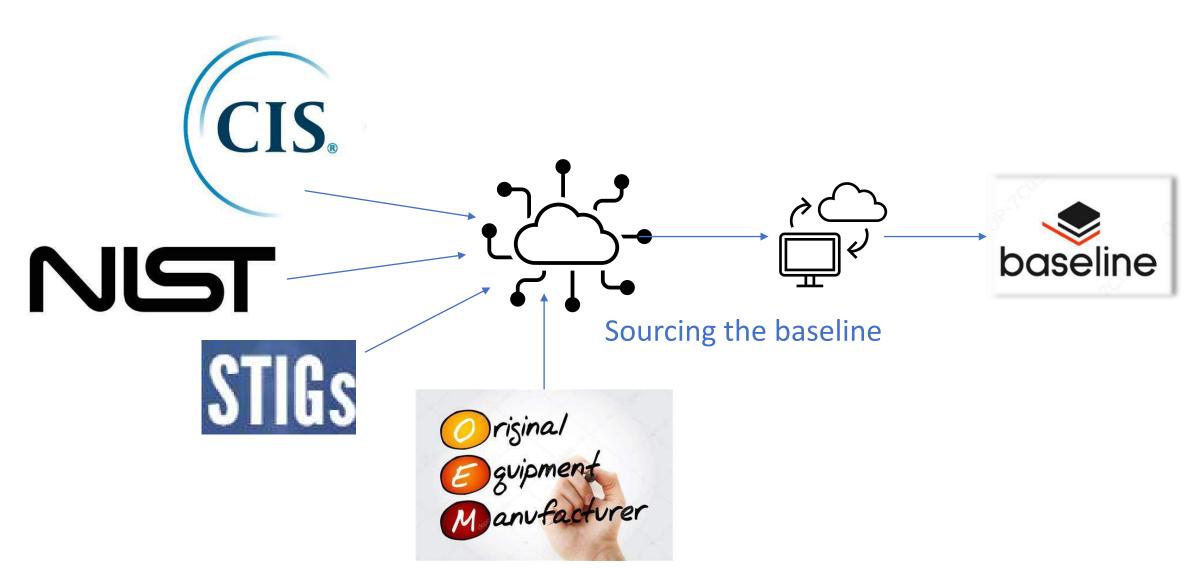


Citrix





Who provides Baseline?

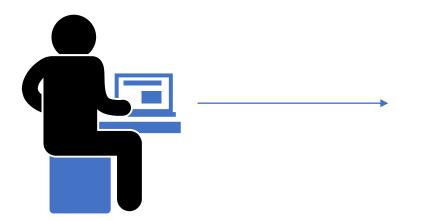


Baseline Compliance Process

Draft Baseline

Verify Baseline compliance

Report Baseline Compliance



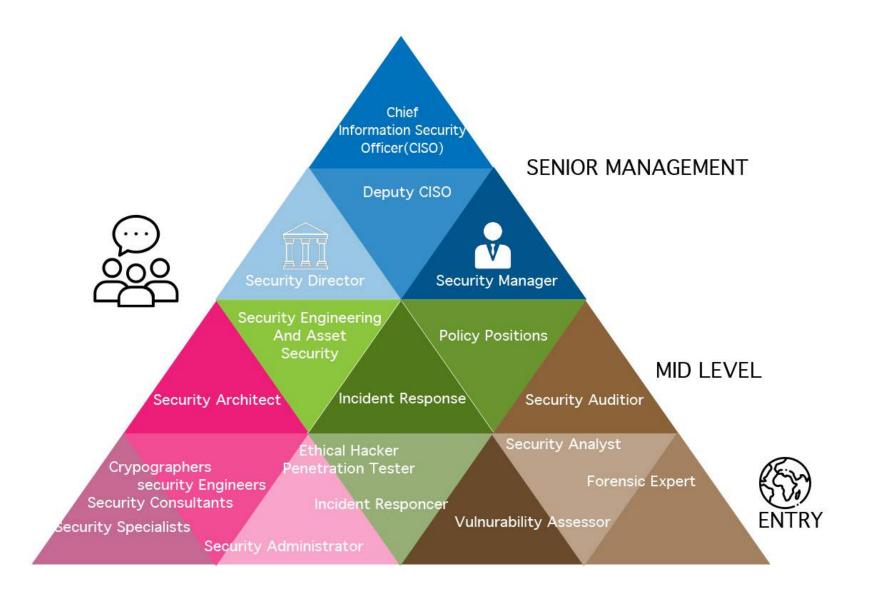




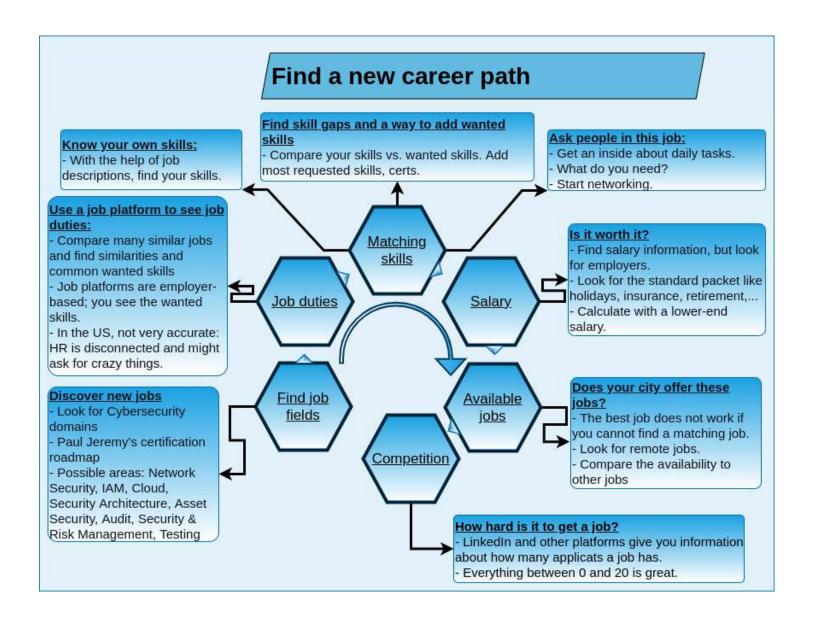


Information Security as a Career

Information Security Career Path



Selecting the Career Path?



Questions



Thank you