



DESTINATION
CERTIFICATION

CISSP MindMaps

Domain 1

Security and Risk Management

Privacy

State or condition of being free from being observed or disturbed by other people

Privacy policy	Personal Data	Data Lifecycle	OECD Guidelines	GDPR	Cannot Achieve Privacy without Security
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Standards	PII	Direct Identifiers	Indirect Identifiers	Online Identifiers	Creation / Update	Store	Use	Share	Archive	Destroy	Collection Limitation	Data Quality	Purpose Specification	Use Limitation	Security Safeguards	Openness	Individual Participation	Accountability	Supervisory Authority (SA)	Breaches reported within 72 hours
Procedures	SPI																			
Baselines	PHI																			
Guidelines	PI																			

Intellectual Property

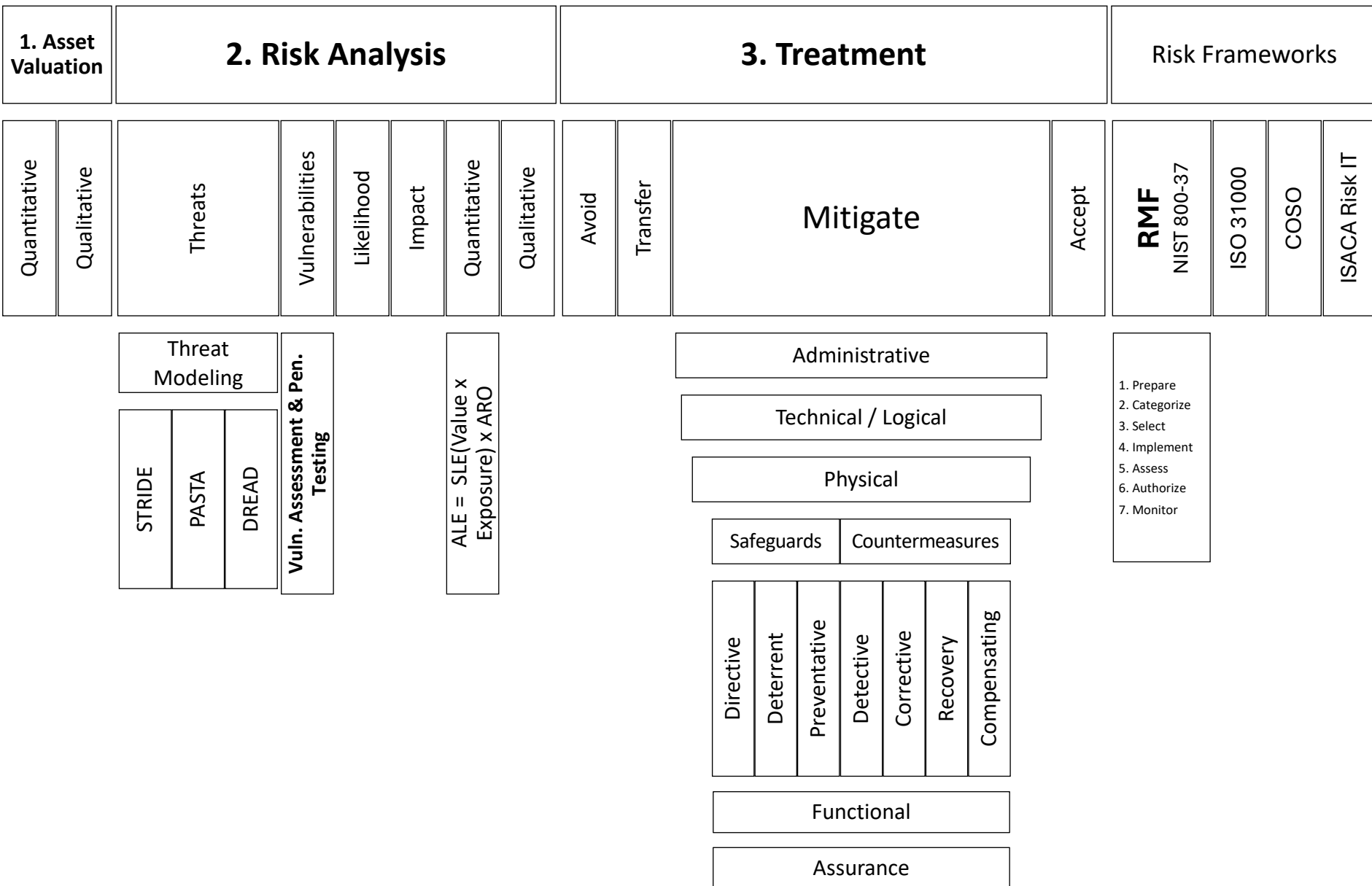
Trade Secret

Patent

Copyright

Trademark

Risk Management



Domain 2

Asset Security



Asset Classification

Asset Inventory	Assign Ownership	<div>Classify</div> <div>based on Value</div>	<div>Protect</div> <div>based on Classification</div>	Assess & Review
<div>System Readable</div> <div>Human Readable</div>	<div>Standards</div> <div>Procedures</div> <div>Baselines</div> <div>Guidelines</div> <div>Security Label</div> <div>Security Marking</div>	<div>Data classification policy</div> <div>Classification</div> <div>Categorization</div>	<div>Roles</div> <div>Rest</div> <div>Motion</div> <div>Use</div> <div>Archive</div> <div>Defensible Destruction</div> <div>DRM</div> <div>DLP</div>	
	<div>Data Owner / Controller</div> <div>Data Processor</div> <div>Data Custodian</div> <div>Data Steward</div> <div>Data Subject</div> <div>Encryption</div> <div>Access Control</div> <div>Backups</div> <div>End-to-End</div> <div>Link</div> <div>Onion</div>		<div>Retention Period</div> <div>Destruction</div> <div>Purging</div> <div>Clearing</div>	
	<div>Media Destruction</div> <div>Shred / Disintegrate / Incinerate / Drill</div> <div>Degauss</div> <div>Crypto shredding</div> <div>Overwrite / Wipe / Erasure</div> <div>Format</div>			

Domain 3

**Security
Architecture
and
Engineering**



Models

Enterprise Security Architecture			Security Models									
Zachman	Sabsa	TOGAF	Lattice Based					Rule Based				
			Bell- LaPadula			Biba		Lipner Implementation	Clark-Wilson	Brewer- Nash	Graham – Denning	Harrison –Ruzzo– ULLman
			Confidentiality	Simple Security Property	Star Property	Strong Star Property	Integrity	Simple Integrity Property	Star Integrity Property	3 goals of integrity	3 Clark-Wilson rules	Prevent conflicts of interest

Secure Design Principles

Threat Modeling
Least Privilege
Defense in Depth
Secure Defaults
Fail Securely
Separation of Duties (SoD)
Keep it Simple
Zero Trust
Trust But Verify
Privacy by Design
Shared Responsibility

Security Frameworks

ISO 27001
ISO 27002
NIST 800-53
COBIT
ITIL
HIPAA
SOX
FedRAMP
FISMA
Cyber Kill Chain

Evaluation Criteria

Certification													Accreditation
TCSEC (Orange Book)			ITSEC			Common Criteria							
Confidentiality only	Single Box only	Functional Levels	Confidentiality + Integrity	Networked devices	Same Functional levels as TCSEC	Assurance Levels	ISO 15408	Protection Profile	Target of Evaluation	Security Targets	Functional & Assurance Requirements	Assign EAL	
		D1 – failed or not tested				E0						EAL1 – Functionally tested	
		C1 – Weak protection mechanisms				E1						EAL2 – Structurally tested	
		C2 – Strict login procedures				E2						EAL3 – Methodically tested & checked	
		B1 - Security labels				E3						EAL4 – Methodically designed, tested & reviewed	
		B2 - Security labels and verification of no covert channels				E4						EAL5 – Semi formally designed & tested	
		B3 - Security labels, verification of no covert channels, and must stay secure during start-up				E5						EAL6 – Semi formally verified designed & tested	
		A1 – Verified design				E6						EAL7 – Formally verified designed and tested	

Trusted Computing Base (TCB)

Reference Monitor Concept			Hardware Components		Software Components		Protection Mechanisms																						
Subject		Mediation		Object		Processor		Storage		System Kernel		Firmware		Middleware		Process Isolation		Processor States		Operating System Modes		Ring Protection Model		Secure Memory Management		Data Hiding		Defence in depth	
Security Kernel			Rules		Logging & Monitoring		Primary		Secondary		Virtual Memory		Memory Segmentation		Time Division Multiplexing		Problem		Supervisor		User Mode		Kernel Mode		Ring 3: User Programs		Ring 0: System Kernel		
Completeness		Isolation		Verifiability																									

Vulnerabilities in Systems

Single Point of Failure	Bypass Controls	TOCTOU (Race Conditions)	Emanations			Covert Channels			Mobile Devices									
Redundancy	Mitigating Controls	Increase frequency of Re-authentication	Shielding (TEMPEST)	White Noise	Control Zones	Analysis & Design	Polyinstantiation		OWASP Mobile Top 10									
								Policy, training & procedures										
								Remote access security										
								End-point security										
									M1: Improper Platform Usage	M2: Insecure Data Storage	M3: Insecure Communication	M4: Insecure Authentication	M5: Insufficient Cryptography	M6: Insecure Authorization	M7: Client Code Quality	M8: Code Tampering	M9: Reverse Engineering	M10: Extraneous Functionality

Web-based Vulnerabilities

Cross Site Scripting (XSS)				Cross Site Request Forgery (CSRF)	SQL Injection	Input Validation	
Stored (Persistent)	Reflected (Most common)	DOM	Target of Attack: Client	Target of Attack: Server		Client Side vs. Server Side	Allow Lists vs. Deny Lists

Cloud Computing

Characteristics	Service Models	Deployment Models	Virtualized Compute	Identity Provider	Cloud identity	Roles	Protocols	Migration	Forensics	Data Destruction

On-Demand Self Service	Broad Network Access	Resource Pooling	Rapid Elasticity	Measured Service	IaaS	Public	PaaS	Private	SaaS	Community	Hybrid	Virtual Machine	Containers	Serverless	Local	Cloud	Cloud	Linked	Synced	Federated	Accountable	Responsible	SPML	SAML	OpenID	OAuth	Data Centric	SLA	Snapshot, Virtual Disk, Image	Crypto Shredding / Crypto Erase						

Hypervisor
Container Engine

Cloud Consumer
Owner / Controller
Cloud Provider / Processor
Cloud Broker
Cloud Auditor

Cryptographic Services

Cryptographic terminology

Confidentiality	Integrity	Authenticity	Non-Repudiation		Access Control
	= Hashing		Origin	Delivery	

Plaintext	Encrypt	Key / Crypto variable	Decrypt	Key clustering	Work factor	Initialization vector/Nonce	Confusion	Diffusion	Avalanche
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Secret Writing

Hidden		Scrambled (Cryptography)						
Steganography	Null Cipher	One-way	Two-way				Substitution	Transposition
		Hashing	Symmetric		Asymmetric			
		MD5 SHA-1 SHA-2 SHA-3	Block	Stream	Factoring	Discrete Log	Digital Certificates	Digital Signatures
			DES 3DES AES (Rijndael) CAST-128 SAFER Blowfish Twofish RC5/RC6	Block Modes: ECB CBC CFB OFB CTR	RC4	RSA		
						Diffie-Hellmann (key exchange) Elliptic Curve (ECC) El Gamal DSA	Caesar Cypher Monoalphabetic Polyalphabetic Running One-time Pads	Spartan Scytale Rail Fence (zigzag)

Digital Signatures

Integrity

Authenticity

Non-repudiation

Origin

Delivery

Digital Certificates

Verify the owner of a Public Key

X.509

Replacement

Revocation

Pinning

CRL

OCSP

PKI

Certificate Authority
(Root of Trust)

Registration Authority

Intermediate / Issuing CA

Certificate DB
(Revocation List)

Certificate Store
(Local)

Key Management

Kerchhoff's
Principle

Generation

Distribution

Storage

Rotation

Disposition

Recovery

Diffie-Hellmann
Out-of-band
Hybrid

TPM
HSM

Crypto-shredding
Key Destruction

Split Knowledge
Dual Control
Key Escrow

Cryptanalysis

Cryptanalytic Attacks

Brute Force

Ciphertext Only

Known Plaintext

Chosen Plaintext

Chosen Ciphertext

Linear & Differential

Factoring

Cryptographic Attacks

Man-in-the-middle

Replay

Pass the Hash

Temporary Files

Implementation

Side Channel

Dictionary Attack

Rainbow Tables

Birthday Attack

Social Engineering

Power

Timing

Radiation Emissions

Purchase Key

Rubber Hose

Physical Security

Safety of people

Categories of Controls		Layered Defense														
Deter Delay Detect Assess Respond	Perimeter	Cameras	Passive Infrared Devices	Lighting	Card Readers / Badges	Doors / Mantraps	Locks	Windows	Walls	Skimming	Infrastructure	Fire Detection	Fire Suppression			
	Landscape	Grading														
Mechanical	Digital	Shock	Glass break													
Network	Power	HVAC	Flame (Infrared)	Smoke	Heat (Thermal)	Water	Gas	Extinguisher	CO ₂							
UPS	Generator	Power Outages	Power Degradation	Temperature	Humidity	Air Quality										
Ionization	Photo-electric	Dual														
Wet Dry Pre-action Deluge	INERGEN Argonite FM-200 Aero-K															

Domain 4

Communication and Network Security



Open Systems Interconnection (OSI) Model

<div>1. Physical</div>		Media	
		Topologies	
		Collisions	
Devices			
Protocols			
<div>2. Datalink</div>		MAC Address	
		Devices	
		Protocols	
<div>3. Network</div>		IP Address	
		Devices	
		Protocols	
<div>4. Transport</div>		Ports = Services	
		Protocols	
<div>5. Session</div>		Devices	
		Protocols	
<div>6. Presentation</div>			
<div>7. Appl.</div>		Devices	
		Protocols	

Wired: Twisted Pair, Coaxial, Fiber Optic	
Wireless: Radio Frequency, Infrared, Microwave	
Bus	
Tree	
Star	
Mesh	
Ring	
CSMA/CA	
CSMA/CD	
Hubs, Repeaters, Concentrators	
802.1x	
Switches & Bridges	
ARP, PPTP, PPP, PAP, CHAP, EAP	
Routers & Packet Filtering Firewalls	
ICMP (Ping), IPsec, IGMP	
Common Ports	
TCP/UDP, SSL/TLS & BGP	
Circuit Proxy Firewall	
NetBIOS & RPC	
Application Firewalls	
HTTP/S, DNS, SSH, SNMP, LDAP, DHCP	

Networking

<div>802.11a, b, g, n, ac, ax</div> <div>WEP</div> <div>TKIP</div> <div>WAP / WPA2</div>		<div>Protocols</div> <div>Encryption</div> <div>802.16</div>	
WAN		Wireless	
Internet Protocol (IP) Addresses		Converged Protocols	
Network Authentication		Network Attacks	
Virtualization		Common Commands	
X.25		Frame Relay	
ATM		MPLS	
Wi-Fi		WiMAX	
GSM / CDMA		Microwave	
IPv4 vs. IPv6		IPv4 Network Classes	
Private IPv4 Addresses		VoIP	
iSCSI, FCoE		PAP	
CHAP		EAP	
PEAP		Phases	
Eavesdropping		SYN Flooding	
IP Spoofing		DoS / DDoS	
Man-in-the-Middle		ARP poisoning	
VLAN		SDN	
ipconfig		ping	
tracert		whois	
dig		Reconnaissance	
Enumeration		Vulnerability Analysis	
Exploitation		Northbound & Southbound APIs	

Network Defense

Defense in Depth		Network Segmentation / Partitioning		Firewalls		Inspection										Endpoint Security							
Network Perimeter		DMZ		Bastion Host		Proxy		NAT / PAT		Types		IDS		IPS		IDS/IPS Location		IDS / IPS Detection Methods		Honeypots & honeynets		Ingress vs. Egress	
Packet Filtering		Stateful Packet Filtering		Circuit Proxy		Application		Host Based		Network Based		Pattern		Anomaly		White & Black Lists		Sandbox					
In-line		Mirror, Span, Promiscuous		Signature analysis		Stateful matching		Statistical		Protocol		Traffic											

Remote Access

Tunneling

Remote
Authentication

Remote Access
/ Management

GRE

PPTP

L2TP

Split
Tunneling

Encryption

RADIUS

TACACS+

Diameter

SNMP

Telnet

VPN

(Tunneling + Encryption)

IPSec

SSL/TLS

SOCKS

SSH

Authentication Header

Encapsulating Security
Payload

Transport mode

Tunnel Mode

IKE

Security Association

Mutual Authentication

Domain 5

Identity and Access Management



Access Control

Access Control Principles		Administration Approaches		Access Controls Services										Session Management									
Separation of Duties		Need to Know		Least Privilege		Centralized		Decentralized		Hybrid		Identification		Authentication						Authorization		Accountability	Session Hijacking
<div>Hard Tokens</div> <div>Soft Tokens</div> <div>Synchronous</div> <div>Asynchronous</div>		Password		Knowledge		Ownership		Characteristic						Single / Multifactor		Discretionary		Non-discretionary		Mandatory		Principle of Access Control	
														Authenticator Assurance Levels (AAL)									
														Just-in-time Access									
		One-time Passwords		Physiological		Behavioural						Rule		Types of RBAC									
												Role											
												Attribute / Content											
		Smart / Memory Cards		Templates		Type 1: False Reject		Type 2: False Accept		Crossover Error Rate													
<div>Fingerprint</div> <div>Hand Geometry</div> <div>Vascular Pattern</div> <div>Facial</div> <div>Iris</div> <div>Retina</div> <div>Voice</div> <div>Signature</div> <div>Key Stroke</div> <div>Gait</div>		Types of RBAC		Types of RBAC		Types of RBAC		Types of RBAC		Types of RBAC		Types of RBAC		Types of RBAC		Types of RBAC		Types of RBAC					

Single Sign-on / Federated Access

Allows users to access multiple systems with a single set of credentials

Single Sign-on

Access systems **within the same organization**

Federated Identity Management (FIM)

Access systems across **multiple entities**

Kerberos

Sesame

Trust
Relationship

SAML

WS-Federation

OpenID

OAuth

Components

Symmetric
encryption only

Symmetric &
Asymmetric
encryption

Principal / User

Identity Provider

Relying Party /
Service Provider

Tokens

Assertions
written in XML

Components

User / Client

Key Distribution
Center

Authentication
Service

Ticket Granting
Ticket (TGT)

Ticket Granting
Service

Service Tickets

Service

Profiles

Bindings

Protocol

Assertion

Domain 6

Security Assessment and Testing



Security Assessment and Testing

Validation	Verification	Rigour	Testing a System	Testing Techniques										Testers / Assessors					Metrics															
			Unit	Methods & Tools	Runtime	Access to Code	Techniques	Efficiency	Operational	Internal	External	Third-Party	Roles	Focus	KPIs	KRIs																		
			Interface																															
			Integration																															
			System																															
Mutation Generation	Manual			Methods & Tools	Runtime	Access to Code	Techniques	Efficiency	Operational	Internal	External	Third-Party	Roles	Focus	KPIs	KRIs																		
	Automated																																	
	Static																																	
	Dynamic																																	
	Fuzz																																	
	White																																	
	Black																																	
	Positive																																	
	Negative																																	
	Misuse																																	
	Decision table analysis																																	
	State-based analysis																																	
	Boundary Value Analysis																																	
	Equivalence Partitioning																																	
	Real User Monitoring																																	
	Synthetic Performance Monitoring																																	
	Regression Testing																																	
				Methods & Tools	Runtime	Access to Code	Techniques	Efficiency	Operational	Internal	External	Third-Party	Roles	Focus	KPIs	KRIs																		
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Identifying Vulnerabilities

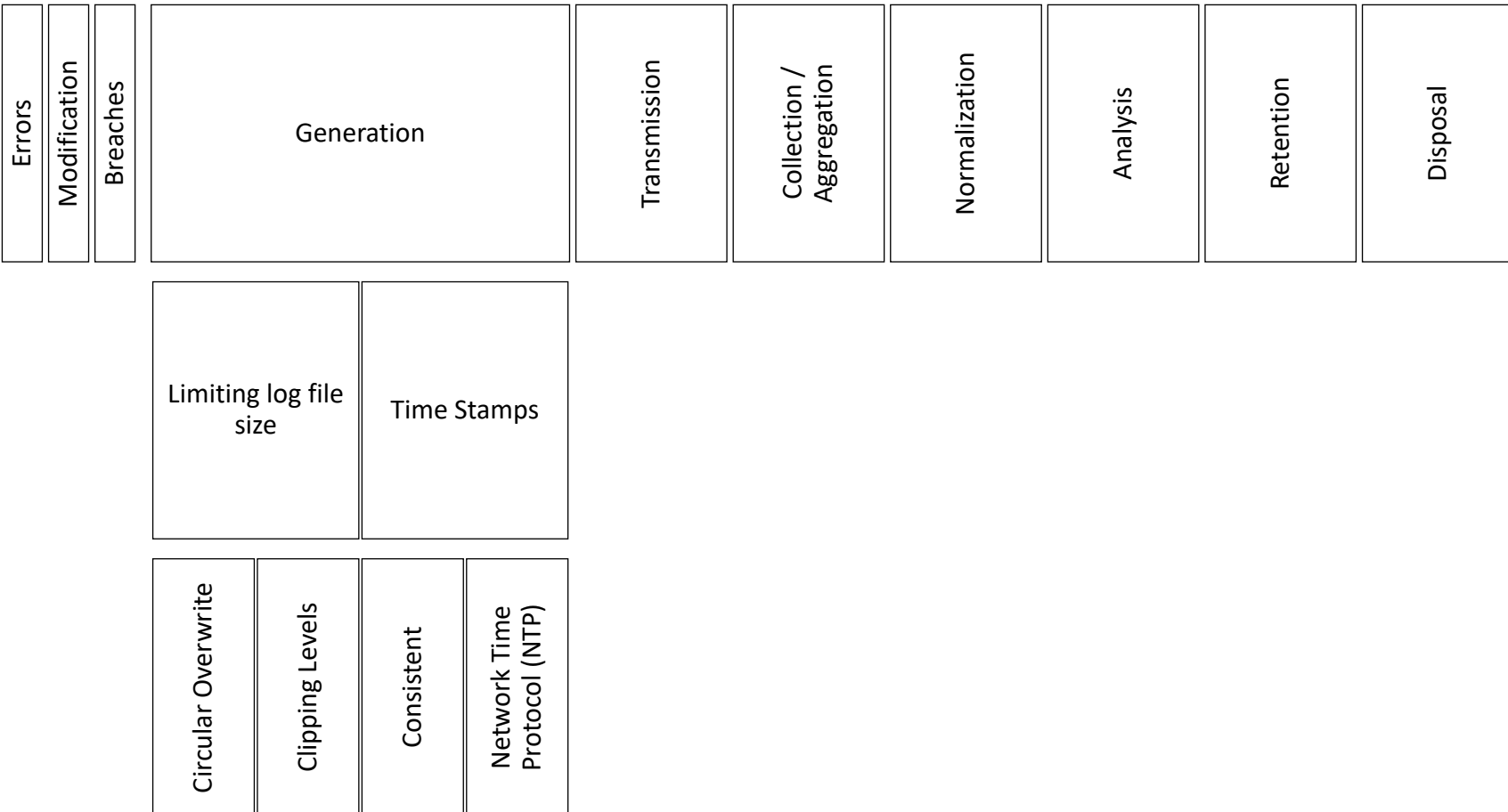
Vulnerability Assessment		Penetration Testing		Process	Testing Techniques	Types of Scans		Banner grabbing & Fingerprinting	Interpreting & understanding results	SCAP	False positive vs. False negative
Reconnaissance		Enumeration				Credentialed / Authenticated					
Vulnerability Analysis		Execution				Uncredentialed / Unauthenticated					
Document Findings		Perspective				CVE					
		Approach				CVSS					
Internal	External	Knowledge									
Blind											
Double-blind											
Zero (black)											
Partial (gray)											
Full (white)											

Log Review & Analysis

Monitor
for

Security Information and Event Management (SIEM)

Continuous
Monitoring



Domain 7

Security Operations



Investigations

Secure the Scene	Collect & Control Evidence	Types of Evidence	Rules of Evidence	Investigative Techniques	Types of Investigations	Document & Report
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Locard's Principle	Sources	Chain of Custody	Real Evidence	Direct Evidence	Secondary Evidence	Best Evidence Rule	Authentic	Accurate	Complete	Convincing	Admissible	Media Analysis	Software Analysis	Network Analysis	Criminal	Civil	Regulatory	Administrative
MOM																		

Oral / Written statements
Documents
Digital Forensics
E Discovery

Live Evidence (Volatile)
Secondary Storage (HD)
VM Instance / Virtual Disk

Incident Response

Prep.

Triage

**Action /
Investigation**

Recovery

Detection

Response
IR Team
Deployed

Mitigation
Containment

Reporting
Relevant
Stakeholders

Recovery
Return to
normal

Remediation
Prevention

**Lessons
Learned**
Improve
Process

Sources:

SIEM, IDS/IPS
DLP, Fire
detectors
Etc.

Event

Incident

Malware

Types of Malware

Virus

Worm

Companion

Macro

Multipartite

Polymorphic

Trojan

Botnets

Boot Sector

Hoaxes / Pranks

Logic Bombs

Stealth

Ransomware

Rootkit

Spyware / Adware

Data Diddler / Salami Attack

Zero Day

Anti-Malware

Training & Awareness

Allow List

Network Segmentation

Signature Based Scanners

Heuristic Scanners

Activity Monitors

Change Detection

Policy

Prevention

Detection

Continuous Updates

Patching

Determine if Patch is available

Threat
Intelligence

Vendor
Notification

Pro-actively checking

Agent

Agentless

Passive

Implement through Change Management

Timing

Deploy

Automated

Manual

Change Management

Change
Request

Assess
Impact

Approval

Build & Test

Notification

Implement

Validation

Version &
Baseline

Emergency
Change vs.
Standard
process

Based on
impact,
severity, etc.

CCB
CAB
ECAB

Test New
Functionality

Regression
Testing

Recovery Strategies

Failure Modes	Backup Storage	Spare Parts	RAID Redundant Array of Independent Disks	High Availability System	Recovery Sites
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Fail-Soft
Fail-Secure
Fail-Safe
Archive Bit
Types of Backups
Validation
Data Storage
RPO
Cold
Warm
Hot
RAID 0 - Striping
RAID 1 - Mirroring
RAID 5 - Parity
RAID 6 - Double Parity
Clustering
Redundancy
Types of Sites
Geographically remote

Mirror
Full
Incremental
Differential
Checksums / CRC
Offsite
Tape Rotation

Cold
Warm
Hot
Mobile
Mirror / Redundant

Business Continuity Management (BCM)

Focuses on critical and essential functions of business

Goals of BCM

1. Safety of people
2. Minimize damage
3. Survival of business

Business Impact Assessment

Identify Critical Processes & Systems

Measurements of Time

Owner approval of #s and associated costs

Types of Plans

Business Continuity Plan (BCP)

Disaster Recovery Plan (DRP)

Read-through / Checklist

Walkthrough

Simulation

Parallel

Full-interruption / Full-scale

Most critical first

Dependency charts

Testing Plans

Restoration order

RPO

RTO

WRT

MTD

Domain 8

Software Development Security



Secure Software Development

Bake In Security	System Life Cycle (SLC)										Maturity Models	APIs	Obfuscation	Acquire Software	Software Security Weaknesses & Vulnerabilities				Secure Programming	Maintain Software										
	Software Development Life Cycle (SDLC)										Operation	Disposal	REST	SOAP	Lexical, Data, Control flow	Assess vendors	Contracts, / SLAs	Buffer Overflows	SQL Injection	XSS / CSRF	Covert Channels	Backdoors / Trapdoors	Memory / Object Reuse	TOCTOU	Citizen Developers	Input Validation	Session Management	Polyinstantation	SCM	SOAR
											Plan + Mgmt. Approval	Requirements	Architecture & Design	Development	Testing	Deployment	Waterfall	Agile	DevOps	Canary	Certification	Accreditation	Cannot go back	Sprints	Scrum Master	Combine Dev, QA & Ops	SecDevOps			
											Development	Testing	Deployment	Waterfall	Agile	DevOps	Canary	Certification	Accreditation	Cannot go back	Sprints	Scrum Master	Combine Dev, QA & Ops	SecDevOps						
											Development	Testing	Deployment	Waterfall	Agile	DevOps	Canary	Certification	Accreditation	Cannot go back	Sprints	Scrum Master	Combine Dev, QA & Ops	SecDevOps						

Databases

Components

Maintaining Integrity of Data

SQL
Injection

Hardware

Software

Language
(SQL)

Users

Data

Concurrency

Locks

A
Atomicity

C
Consistency

I
Isolation

D
Durability

Database

Tables

Rows = Tuples
/ Records

Columns =
Attributes

Fields

Primary &
Foreign Keys

Printable Blank MindMaps

Print out the following blank MindMaps and fill them in as you watch our MindMap videos!

Print pages **41** to **70**

Alignment of Security Function to Business Strategy

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The diagram illustrates a hierarchical tree structure using rectangles. The root is a large rectangle at the top, which branches into several smaller rectangles below it. The structure is complex, with multiple levels of branching and some rectangles spanning multiple columns.

- The root rectangle branches into three main sections:
 - A left section consisting of a row of eight small rectangles.
 - A middle section consisting of a row of four small rectangles.
 - A right section consisting of a row of three small rectangles.
- The left section further branches into a row of eight small rectangles.
- The middle section further branches into a row of four small rectangles.
- The right section further branches into a row of three small rectangles.

Privacy

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Intellectual Property

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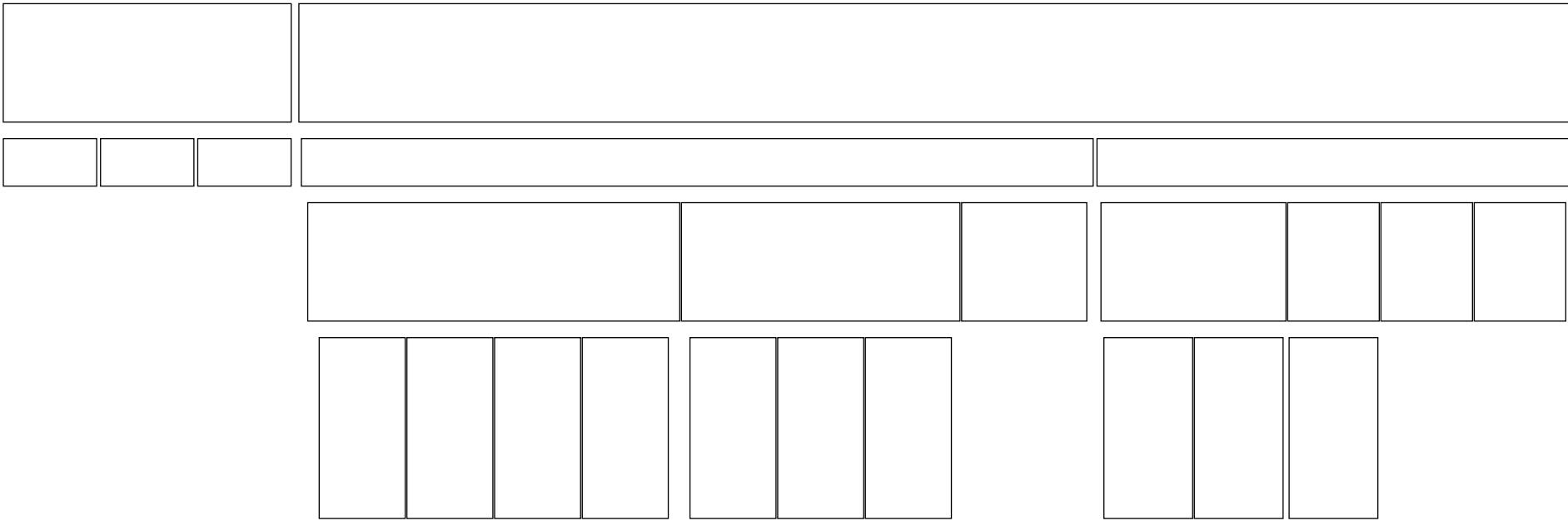
Risk Management

The diagram illustrates a hierarchical tree structure of rectangles. The top row consists of four large rectangles. The second row contains eight rectangles, with the third and fourth rectangles from the left being significantly wider than the others. The third rectangle from the left has a vertical stack of five smaller rectangles below it. The fourth rectangle from the left has a vertical stack of four smaller rectangles below it. The fifth rectangle from the left has a vertical stack of three smaller rectangles below it. The sixth rectangle from the left has a vertical stack of two smaller rectangles below it. The seventh rectangle from the left has a vertical stack of two smaller rectangles below it. The eighth rectangle from the left has a vertical stack of two smaller rectangles below it. The bottom row has four rectangles, with the second and third rectangles being significantly wider than the others.

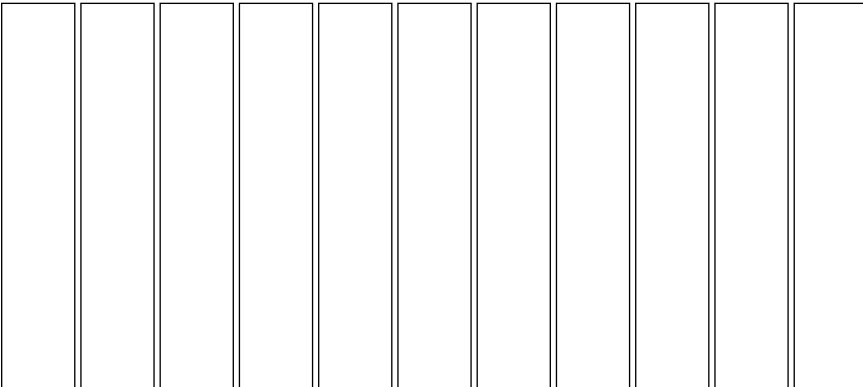
Asset Classification

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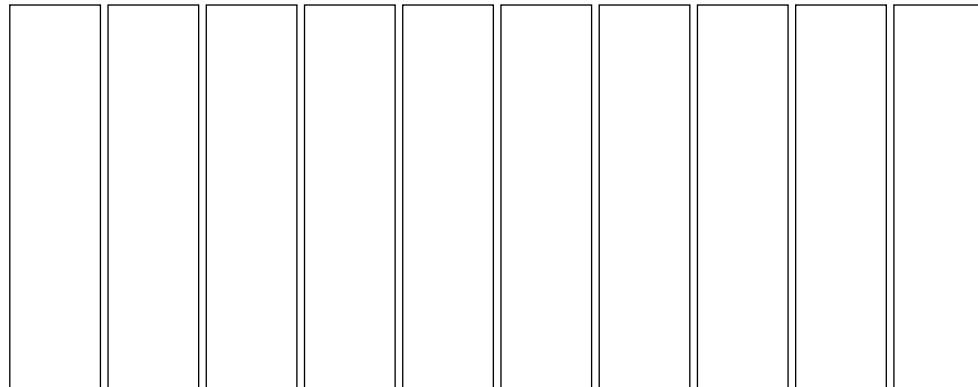
Models



Secure Design Principles



Security Frameworks



Evaluation Criteria

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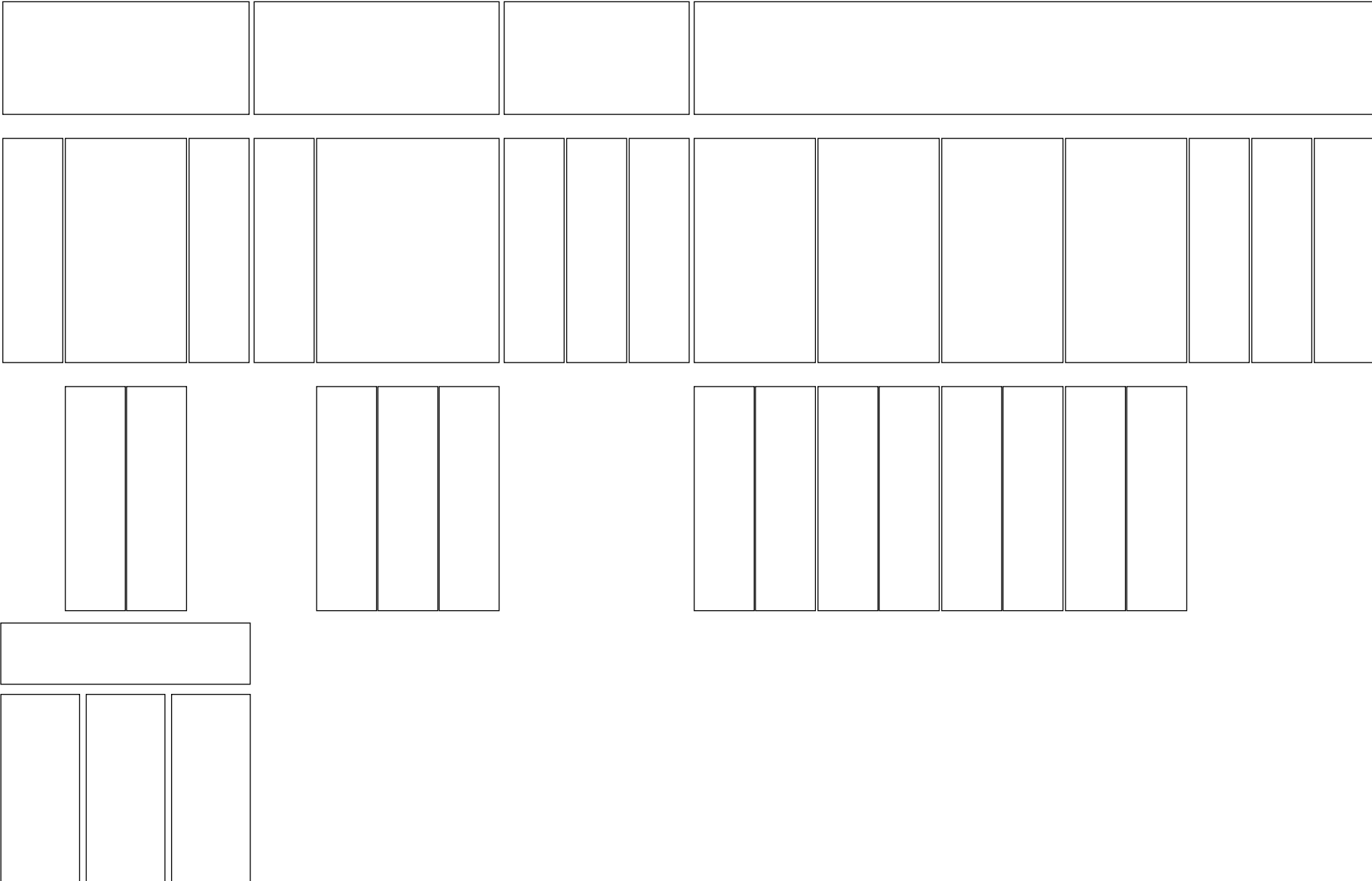
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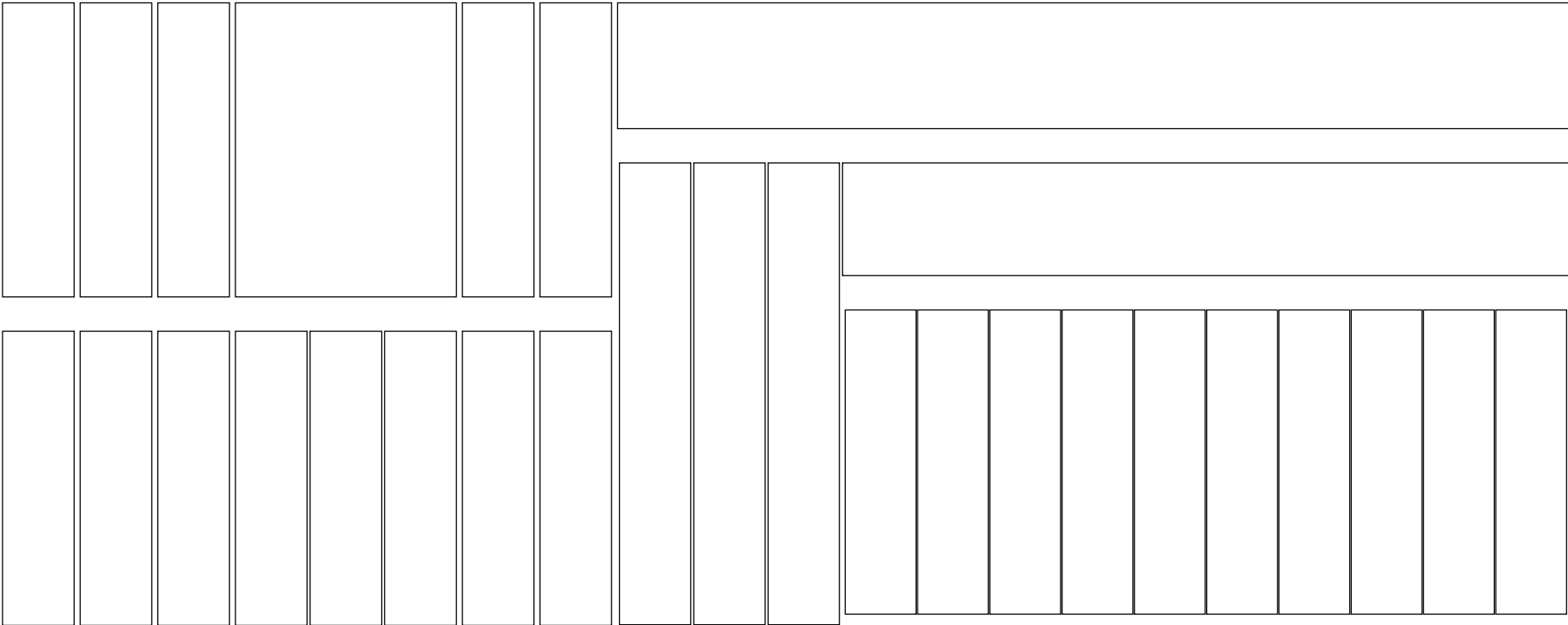
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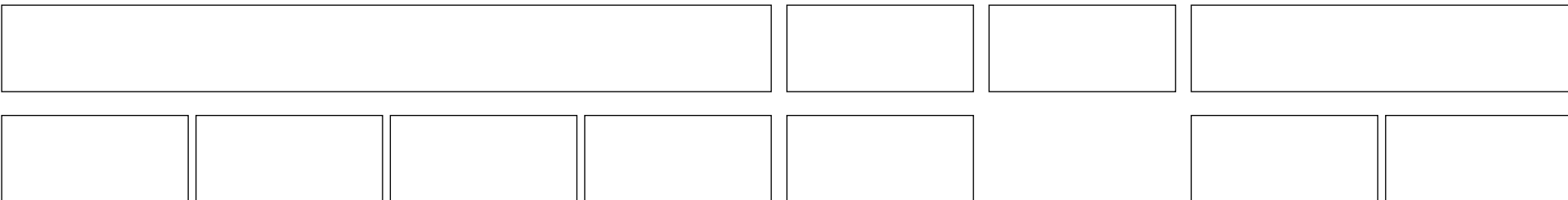
Trusted Computing Base (TCB)



Vulnerabilities in Systems



Web-based Vulnerabilities



Cloud Computing

[illegible][illegible]

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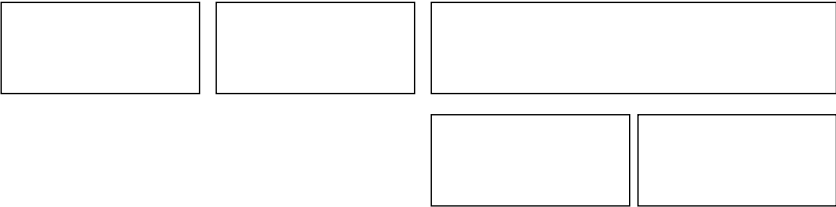
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Cryptographic Services

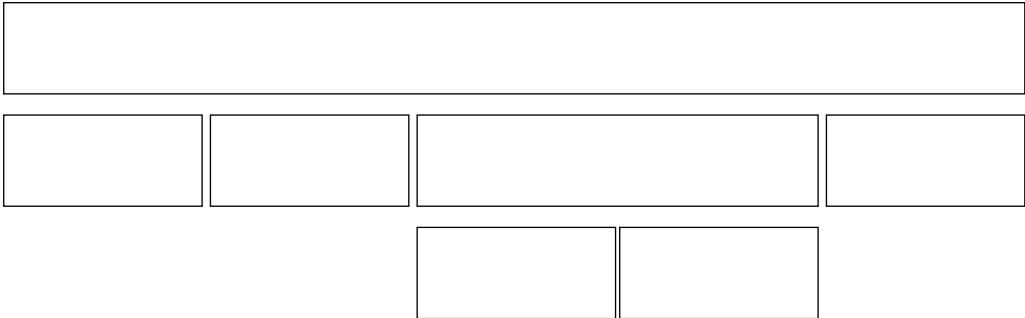
Cryptographic terminology

Secret Writing

Digital Signatures



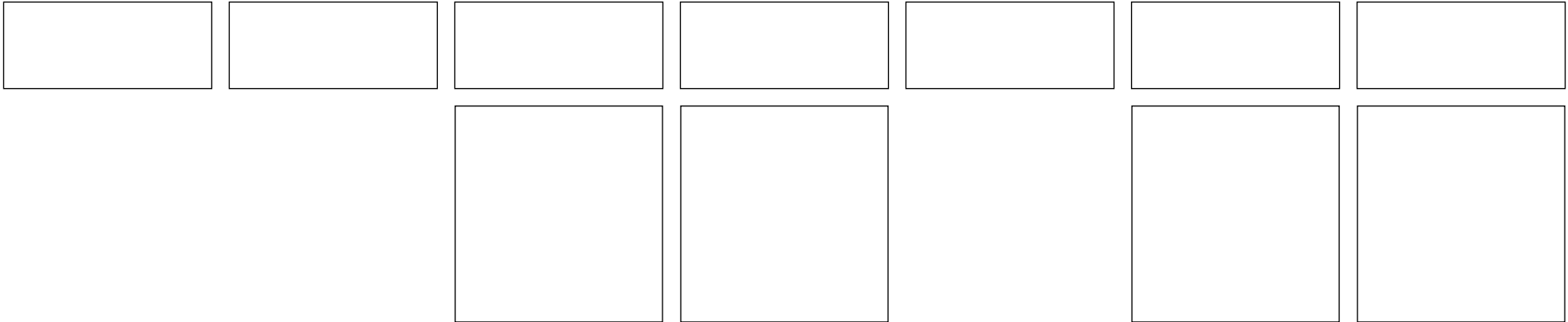
Digital Certificates



PKI



Key Management



Cryptanalysis

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Physical Security

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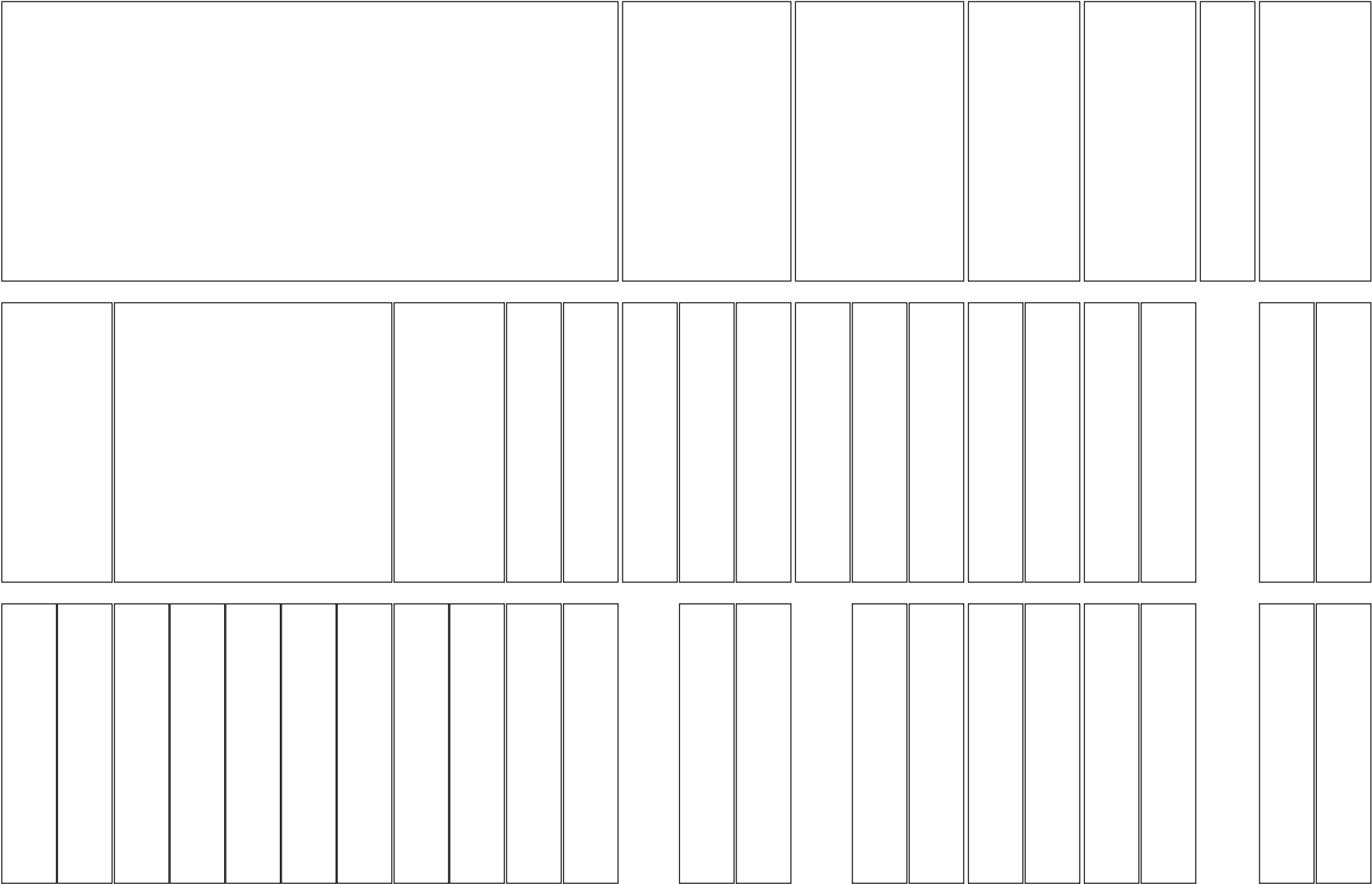
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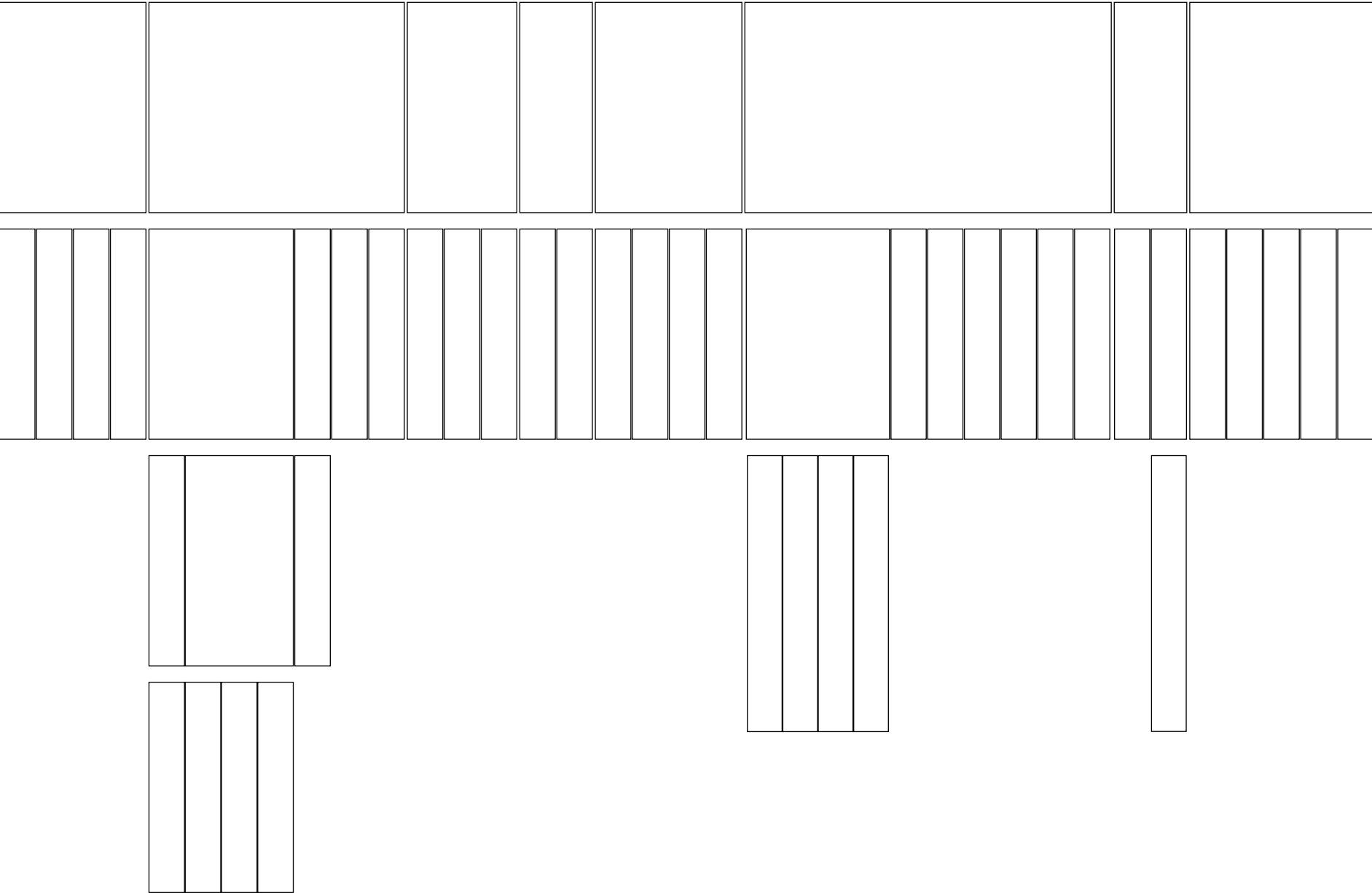
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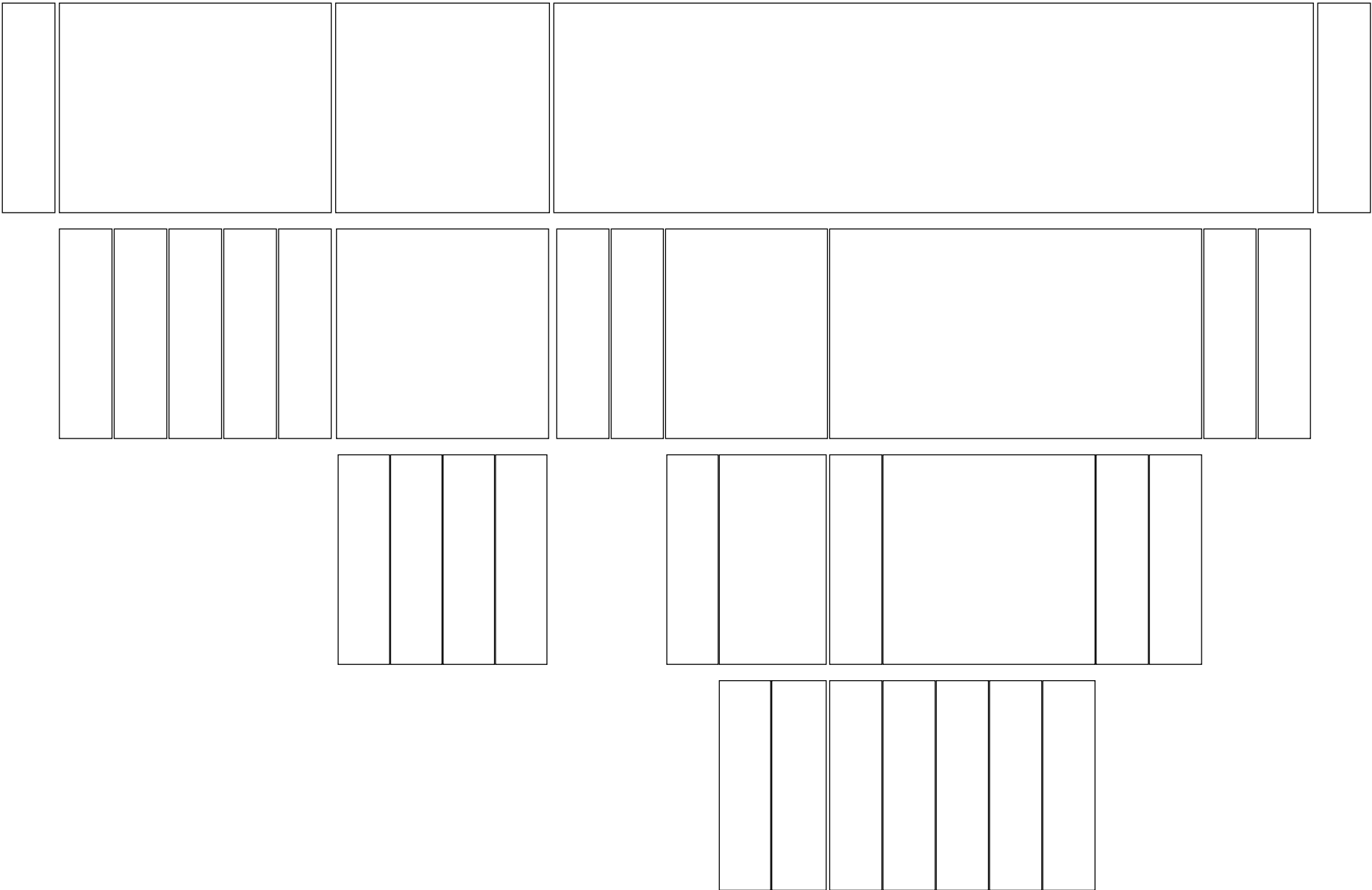
Open Systems Interconnection (OSI) Model



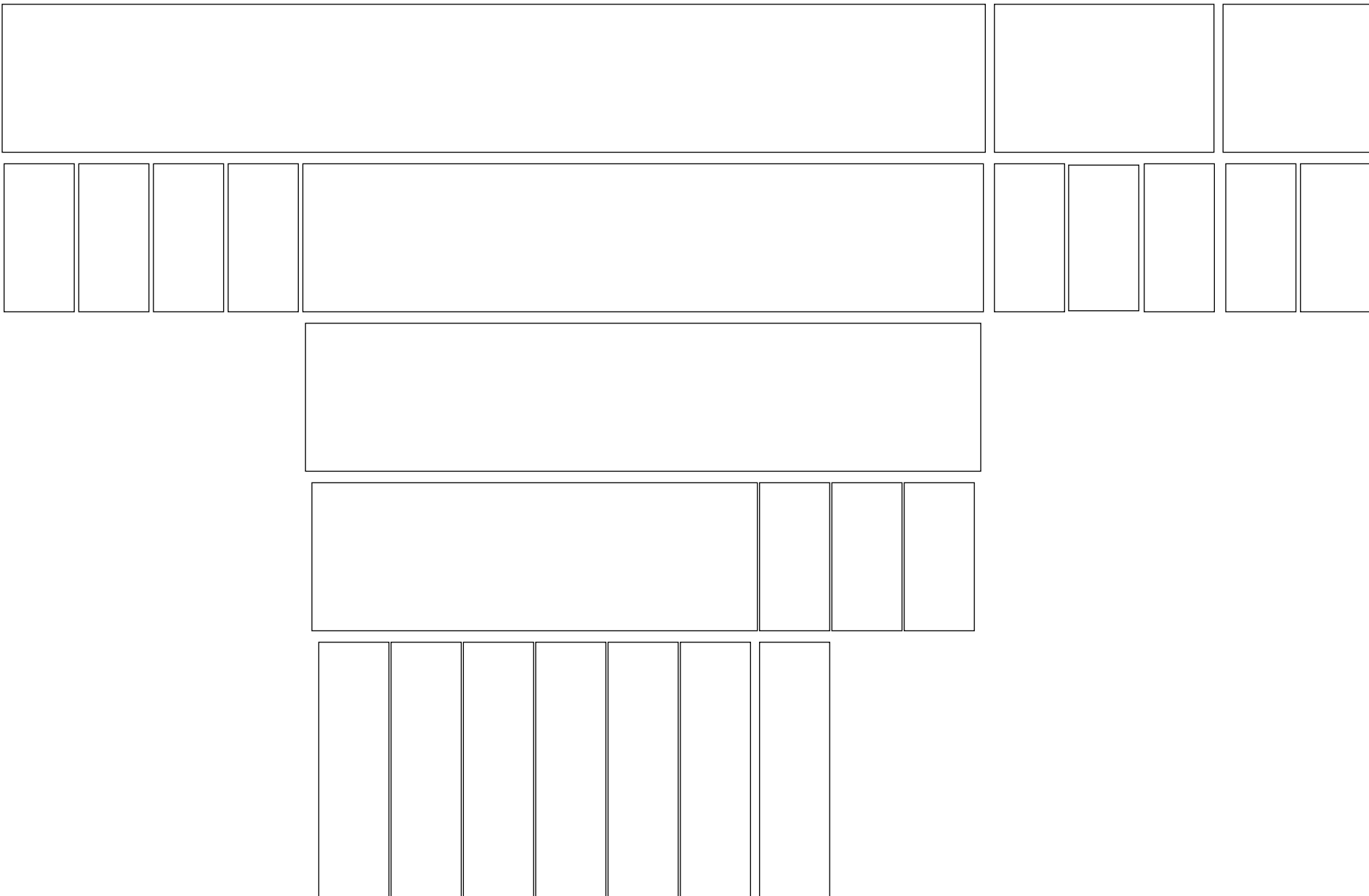
Networking



Network Defense



Remote Access



Access Control

[illegible]

Security Assessment and Testing

[illegible]

Identifying Vulnerabilities

[illegible]

Log Review & Analysis

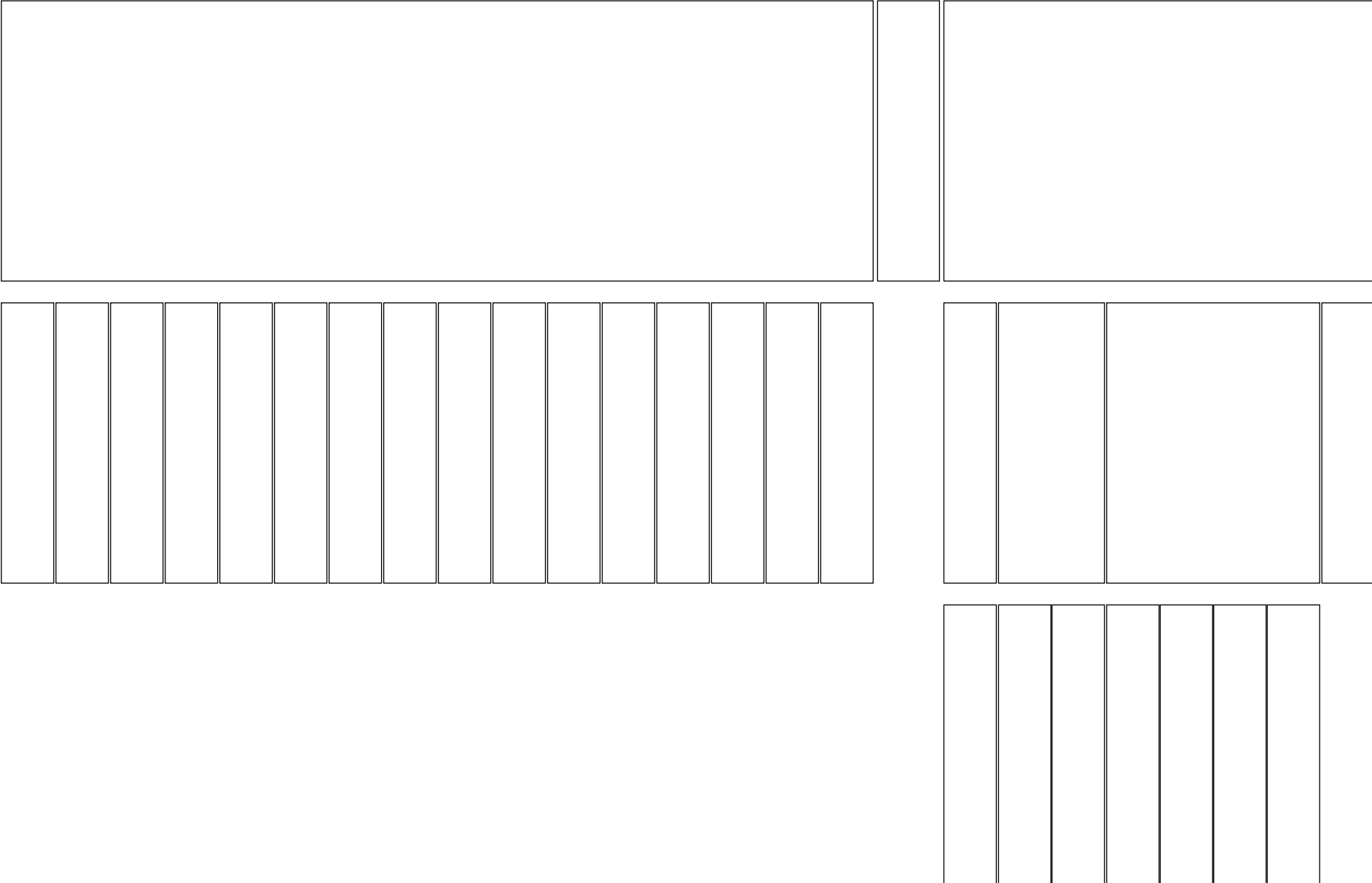
Investigations

[illegible]

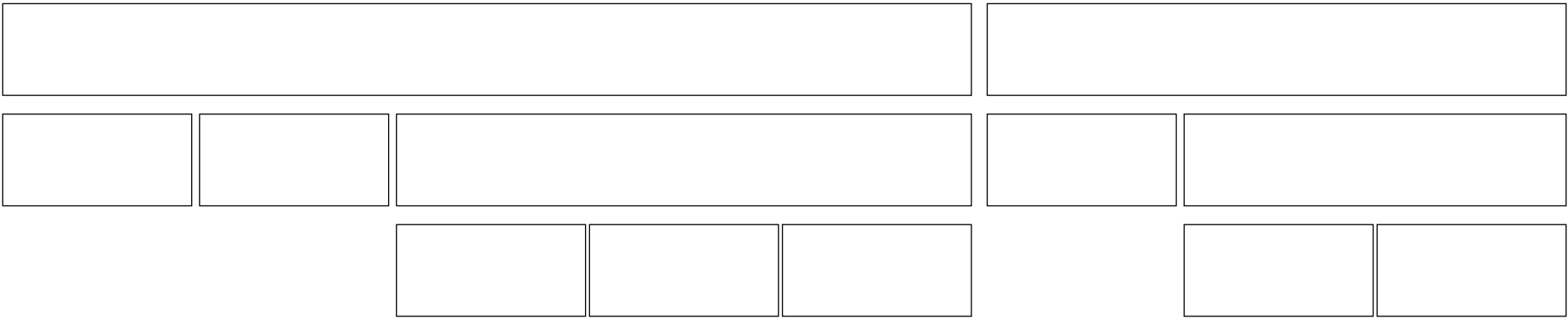
Incident Response

[illegible]

Malware



Patching



Change Management



Recovery Strategies

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[illegible]

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Business Continuity Management (BCM)

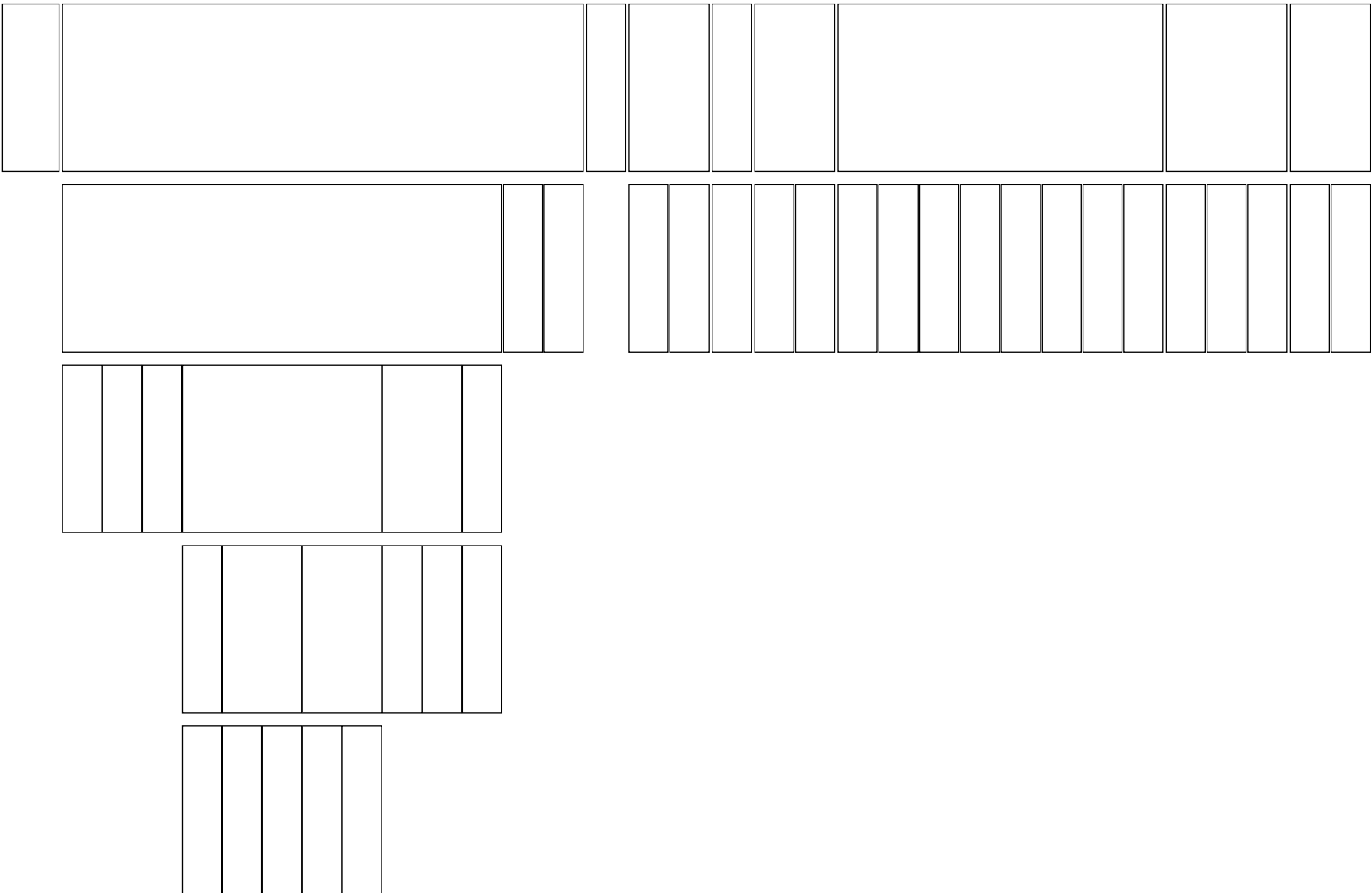
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Secure Software Development



Databases

