# CSO/CISO/BISO/TISO/ISO-Cybersecurity Architecture Concerns

## Cybersecurity Architecture Strategy

- **Zero Trust Strategy**
- **Cloud Security Strategy**
- **IoT/IIoT/ICS/SCADA/OT Strategy**
- **Secure Enclave Strategy**
- **Software Defined WAN Strategy**
- **Identity & Access Management Strategy**
- **Network Virtualization Function Strategy**
- **Software Defined Perimeter Strategy**
- **Defense-in-Depth Strategy**
- **Defense-in-Breadth Strategy**
- **Software Defined Network Strategy**
- **Secure Access/Secure Edge (SASE) Strategy**

### Portfolio Management Integration

- **Program Management Integration**
- **Project Management Integration**

## Cybersecurity Tooling

### Network Cybersecurity
- **Hybrid**
- **On-Premises**
  - **Owned Data Centers**
  - **Server Rooms**
  - **Colocation Sites**
  - **MDF Closets**
- **Cloud**
  - **SaaS**
  - **PaaS**
  - **IaaS**

### Application Cybersecurity
- **Cloud**
- **Hybrid**
- **On-Premises**

### Storage Cybersecurity
- **Cloud**
- **Hybrid**
- **On-Premises**

### Identity and Access Management
- **Cloud**
- **Hybrid**
- **On-Premises**

### System Cybersecurity
- **Cloud**
- **Hybrid**
- **On-Premises**
- **Endpoint**

### Information Cybersecurity
- **Cloud**
- **Hybrid**
- **On-Premises**

### Database Cybersecurity
- **Data Governance**
- **Hybrid**
- **On-Premises**
- **Cloud**

### IoT/IIoT/ICS/SCADA/OT Cybersecurity
- **On-Premises**
- **Cloud**
- **IEC 62443**
- **Hybrid**

## Cybersecurity Architecture Development

### SABSA
- **Contextual Architecture**
  - **Capability**
  - **Business Drivers**
  - **Business Attributes**
- **Conceptual Architecture**
- **Logical Architecture**
- **Physical Architecture**
- **Component Architecture**
- **Service Management Architecture**
- **TOGAF Integration**
- **Zachman Integration**
- **Governor's View**
- **Risk Management**

### Cybersecurity Mechanisms

#### Directory Services
- **Authorization Management**
  - **Entitlements**
  - **Entitlement Management**
- **Credential Management**
- **Federated Services**
- **Authentication Management**
  - **Role-BAC**
  - **Attribute-BAC**
  - **MFA**
  - **Rule-BAC**
- **Risk-Based Authentication**
- **Single Sign-On**
- **Conditional Access**
- **Rule-Based Access**

- **Email Security**
- **DNS Security**
- **Secure Configurations**

#### Key Vaults
- **Cloud**
- **On-Premises**

#### Line of Business Policies
- **Network ACLs**
- **Cloud Policies**
- **Application ACLs**

#### Hardening
- **System Hardening**
- **Application Hardening**
- **Database Hardening**
- **Endpoint Hardening**

#### Network Segmentation
- **Corporate Segmentation**
- **Microsegmentation**
- **Management Network**
- **IoT/IIoT/ICS/SCADA/OT Segementation**
- **Product Segmentation**

### Architecture Change Control
- **Architecture Change Control**
- **New Architecture Request**

### Review Boards
- **Database Review Board**
- **Technology Review Board**
- **Architecture Review Board**

### TOGAF
- **Open Enterprise Security Architecture (O-ESA)**
- **Architecture Development Method (ADM)**
- **Architecture Capability**
- **Business Capability**
- **Jericho Forum**
- **Open Information Security Management (O-ISM)**
- **SABSA Integration**
- **IT4IT**
- **Information Architecture**
- **Application Architecture**
- **Database Architecture**
- **Technical Architecture**
- **Network Architecture**
- **Systems Architecture**