

# Network Security Architectures: Protecting Enterprise Networks from Evolving Threats

Network security architectures provide a framework to safeguard enterprise IT infrastructure from cyber threats by integrating multiple layers of defense.



## Perimeter Security: The First Line of Defense

Secures the network boundary using firewalls, IDS/IPS, and secure web gateways to block unauthorized access.

## Defense-in-Depth: Multi-Layered Security Strategy

Employs multiple layers of security controls to minimize the risk of successful attacks.

## Zero Trust Architecture (ZTA): Trust No One

Assumes no inherent trust, requiring continuous authentication and authorization for all users and devices.

## Network Segmentation: Isolating Sensitive Assets

Divides the network into isolated zones to limit the spread of potential breaches.

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## Secure Network Design: Planning for Scalability and Security

Designs networks with security built-in from the ground up, ensuring scalability and resilience.

## Endpoint Security: Protecting Devices Connected to the Network

Secures devices like computers and mobile phones to prevent them from becoming attack vectors.

## Cloud Security Architecture: Securing the Hybrid Environment

Protects data, applications, and services in the cloud while ensuring integration with on-premises systems.

## Identity and Access Management (IAM): Controlling Who Can Access What

Manages user identities and enforces access controls to sensitive resources using technologies like MFA and RBAC.

## Security Monitoring and Incident Response: Proactive Threat Detection

Continuously monitors network traffic to detect and respond to security threats in real-time.

## Data Loss Prevention (DLP): Safeguarding Sensitive Information

Prevents unauthorized access or leaks of sensitive data through encryption, access restrictions, and monitoring.

[www.thecentexitguy.com](http://www.thecentexitguy.com)

**Centex Technologies**



13355 Noel Road, Suite #1100  
Dallas, TX 75240

Phone: (972) 375 - 9654

501 N. 4th Street,  
Killeen, TX 76541

Phone: (254) 213 - 4740

1201 Peachtree ST NE,  
400 Colony Square #200  
Atlanta, GA 30361

Phone: (404) 994 - 5074

Capital Factory, 701  
Brazos Street, Suite 500  
Austin, TX 78701

Phone: (512) 956 - 5454