

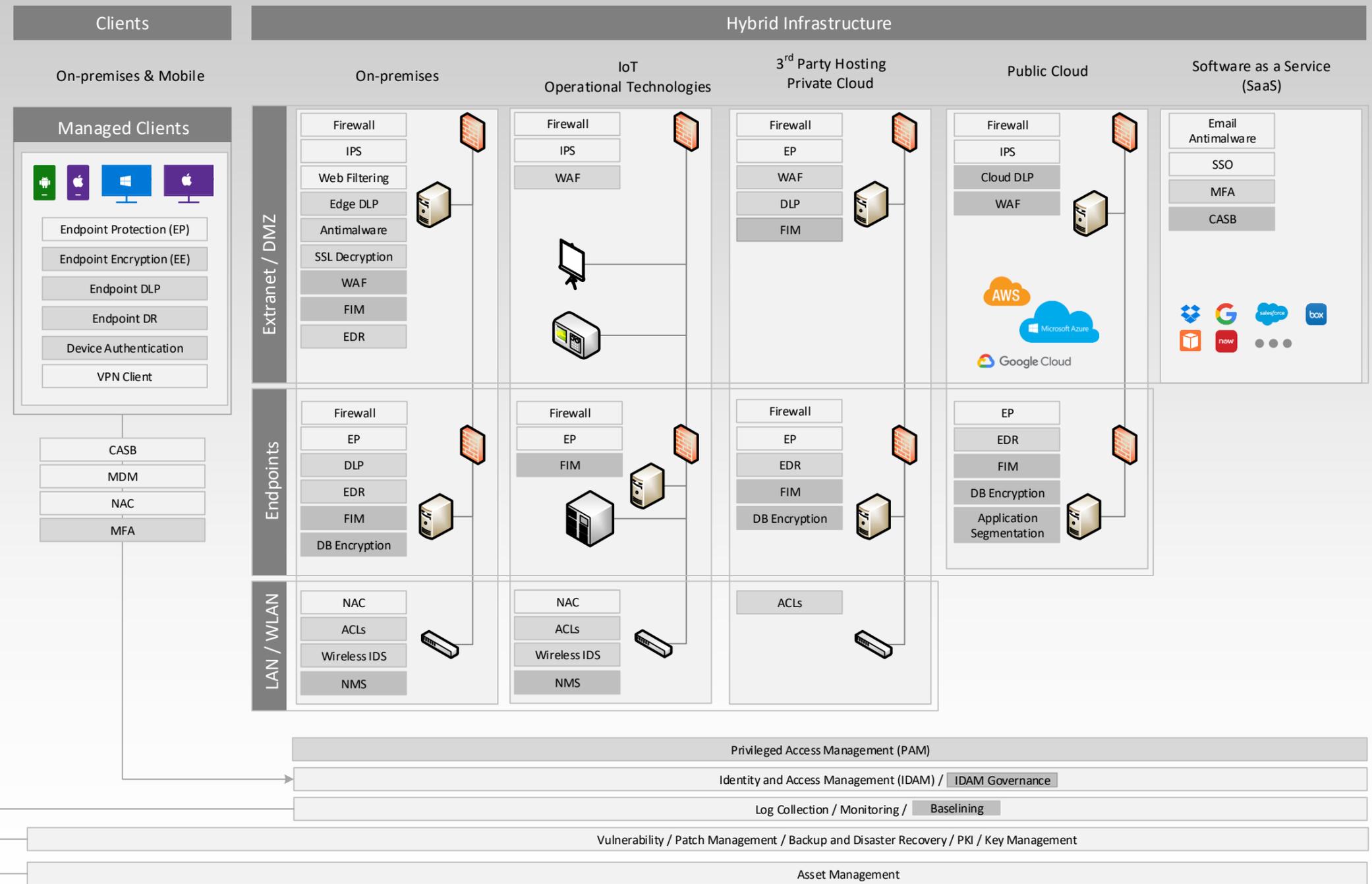
NIST Risk Management Framework – SP 800-18

Categorize System	Select Controls	Implement Controls	Assess Controls	Authorize System	Monitor Controls
Information Security Office			MSSPs		
Incident Response and Recovery	Configuration Management	Managed NAC			
Asset Management	Patch Management	Managed SIEM			
Vulnerability Management	Security Governance	Managed Firewalls/IDS/IPS/Web Filtering			
SIEM & Analytics	Awareness and Training	Managed IPS/IDS			
Penetration Testing / Red Teaming	Security Architecture	eDiscovery / Forensics Retainer			
eDiscovery / Forensics	Risk Assessments / Compliance	Threat Hunting			
Threat Hunting	Supply Chain Risk Management	Managed Detection and Response			

Cybersecurity Architecture Roadmap

Version 2.1 – April 2019 © Adrian Grigorof

- Currently implemented
- 2019 implementation
- 2020 implementation
- Not on the roadmap



- Identify**
 - Governance
 - Risk Assessments
 - Compliance
 - Configuration Management
 - Vulnerability Scanning
 - Penetration Testing
 - Asset Management
- Protect**
 - Firewalls / ACLs
 - Remote Access (VPN)
 - Endpoint Protection (EP)
 - Email Antimalware
 - Intrusion Prevention (IPS)
 - Web Filtering
 - Identity and Access Management (IDAM)
 - Single Sign-On (SSO)
 - Multi-Factor Authentication (MFA)
 - Privileged Access Management (PAM)
 - IDAM Governance
 - Network Access Control (NAC)
 - Mobile Device Management (MDM)
 - Endpoint Encryption (EE)
 - Database Audit Monitoring
 - Device Authentication
 - Web Application Firewall (WAF)
 - Database Encryption
 - Cloud Access Security Broker (CASB)
 - Application Segmentation
 - Public Key Infrastructure (PKI)
 - Key Management
 - DDoS Protection
 - Application Whitelisting

Security Controls vs NIST Cybersecurity Framework



- Detect**
 - SIEM & Analytics
 - Intrusion Detection (IDS/IPS)
 - Vulnerability Scanning
 - Wireless IDS
 - Endpoint EDR / HIDS
 - Endpoint DLP
 - Edge DLP
 - Edge Antimalware
 - SSL Decryption
 - NMS
 - File Integrity Monitoring (FIM)
 - Baselining
 - Threat Hunting
 - Threat Intelligence Feeds
 - Deception / Honey pots
 - Code Analysis
- Respond**
 - Incident Response and Recovery
 - Endpoint Detection and Response
 - eDiscovery / Forensics
- Recover**
 - Disaster Recovery Planning
 - Incident Response and Recovery