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# SECURE BASELINE CONFIGURATIONS (SBC)

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EXAMPLE

## EXECUTIVE SUMMARY

ACME's asset owners and asset custodians are responsible for implementing and maintaining secure systems, applications and services that utilize industry-recognized practices and in compliance with applicable statutory, regulatory and contractual obligations.

### PURPOSE

This document exists to serve as a reference so secure configurations can be implemented consistently across the company. This focus on secure configurations reduces technology-related risk to ACME. As the graphic below depicts, everything revolves around risk where (1) bad actors wish to harm ACME assets and (2) ACME wants to protect its assets. This is where the implementation of cybersecurity and privacy controls comes into play, since that is what reduces risk.

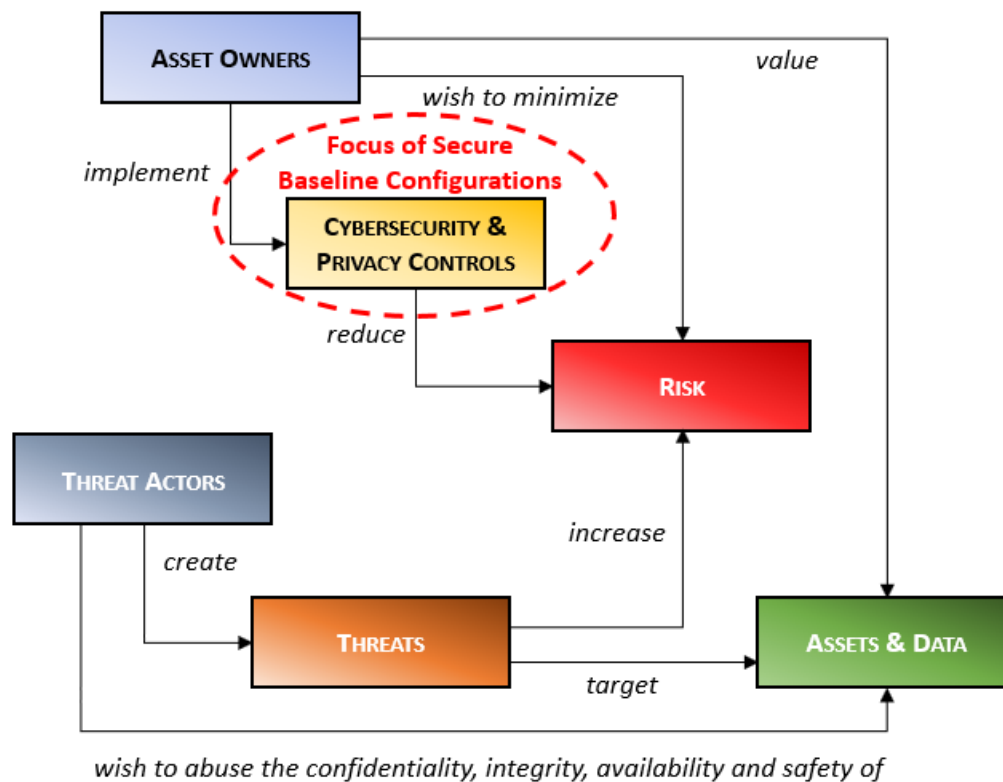


Figure 1: Focus of risk management for Secure Baseline Configurations

### INTENDED AUDIENCE

This Secure Baseline Configurations (SBC) document contains technical guidance that is specifically focused on the following functions internal to ACME or outsourced to a trusted service provider:

- Solutions architects (e.g., IT and cybersecurity architects)
- Systems integrators
- Asset owners
- Asset custodians (e.g., system admins)

### SCOPE & APPLICABILITY

These secure configurations apply to all ACME systems, applications and services that are owned, leased, controlled or used by ACME, its agents, contractors or other business partners on behalf of ACME.

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## DETERMINING SECURE BASELINES & APPROVED DEVIATIONS

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ACME recognizes that “out of the box” secure baseline configuration recommendations will not always be applicable to meet ACME’s business requirements. Given that reality, it is a necessity for ACME cybersecurity staff to document acceptable deviations from industry-recognized security practices and publish “ACME-approved” secure baseline configurations.

It is the responsibility of asset owners and asset custodians to submit a request for exception for any deviations from a ACME-approved secure baseline configuration. This request must include an assessment of risk posed from the deviation.

### DEFINING INDUSTRY-RECOGNIZED PRACTICES

ACME's approved sources for defining appropriate configurations to secure systems, applications and services are:

- Center for Internet Security (CIS) Benchmarks<sup>1</sup>
- Defense Information Systems Agency (DISA) Security Technical Implementation Guides (STIGs)<sup>2</sup>
- Original Equipment Manufacturer (OEM) Recommendations
- Open Web Application Security Project (OWASP)<sup>3</sup>

### CENTER FOR INTERNET SECURITY (CIS) BENCHMARKS

CIS provides free versions of the CIS Benchmarks in PDF format. It is possible to purchase pre-hardened images for certain operating systems for participating cloud environments.<sup>4</sup>

*Note - To stay current on the latest updates to STIGs, asset custodians are encouraged to subscribe to the CIS Workbench newsletter.<sup>5</sup>*

### DEFENSE INFORMATION SYSTEMS AGENCY (DISA) SECURITY TECHNICAL IMPLEMENTATION GUIDES (STIGS)

DISA provides free hardening guidance, in the form of STIGs. To view a STIG, it is necessary to download the STIG Viewer from DISA’s Information Assurance Support Environment (IASE) website, which is a Java-based application.<sup>6</sup>

*Note - To stay current on the latest updates to STIGs, asset custodians are encouraged to subscribe to the STIG mailing list.<sup>7</sup>*

### ORIGINAL EQUIPMENT MANUFACTURER (OEM) RECOMMENDATIONS

It is common practice for hardware or software OEMs to provide configuration recommendations to secure their products or services, since default settings rarely come with security functionality enabled by default. Most OEM security recommendations match up with CIS Benchmarks and DISA STIGs (see above), but analysis is required for settings where other security recommendations either conflict with OEM recommendations or if no other guidance exists:

- For new products or services, asset custodians are expected to review OEM security recommendations and assess the risk associated with making or not making OEM recommended configurations.
- For legacy products or services, asset custodians are expected to visit the OEM’s website and search for OEM security recommendations and assess the risk associated with making or not making OEM recommended configurations.

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<sup>1</sup> CIS Benchmarks - <https://www.cisecurity.org/cis-benchmarks/>

<sup>2</sup> DISA Information Assurance Support Environment (IASE) - <https://iase.disa.mil/stigs/Pages/index.aspx>

<sup>3</sup> OWASP - <https://www.owasp.org>

<sup>4</sup> CIS Hardened Images - <https://www.cisecurity.org/hardened-images/>

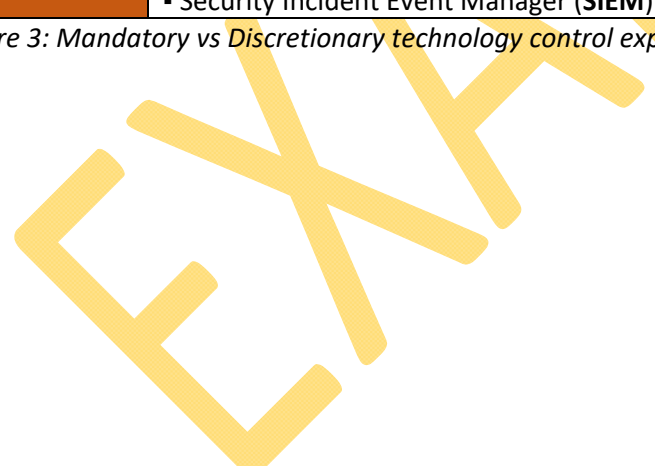
<sup>5</sup> CIS Workbench - <https://workbench.cisecurity.org/>

<sup>6</sup> STIG Viewer - <https://iase.disa.mil/stigs/Pages/stig-viewing-guidance.aspx>

<sup>7</sup> STIG mailing list - [https://public.govdelivery.com/accounts/USDISA/subscriber/new?topic\\_id=USDISA\\_181](https://public.govdelivery.com/accounts/USDISA/subscriber/new?topic_id=USDISA_181)

Assurance Level	BASIC	ENHANCED
Level of Effort	Meets industry-recognized secure practices	Greater than basic industry-recognized secure practices
<b>MANDATORY</b> Technology Controls	<ul style="list-style-type: none"> <li>▪ Antimalware (host-based)</li> <li>▪ Encryption in transit (e.g., SSL/TLS, SFTP, SSH, etc.)</li> <li>▪ Log collection (forwarded to centralized log collector)</li> <li>▪ Patch management</li> <li>▪ Vulnerability scanning</li> <li>▪ Identity &amp; Access Management (IAM)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Antimalware (host-based)</li> <li>▪ Configuration management (automated)</li> <li>▪ Encryption at rest (e.g., file, folder, table or whole drive)</li> <li>▪ Encryption in transit (e.g., SSL/TLS, SFTP, SSH, etc.)</li> <li>▪ File Integrity Monitoring (<b>FIM</b>)</li> <li>▪ Host Intrusion Prevention System (<b>HIPS</b>)</li> <li>▪ Log collection (forwarded to <b>SIEM</b>)</li> <li>▪ Mobile Device Management (<b>MDM</b>)</li> <li>▪ Multi-Factor Authentication (<b>MFA</b>)</li> <li>▪ Network Intrusion Detection / Protection (<b>NIDS / NIPS</b>)</li> <li>▪ Next Generation Firewall (<b>NGF</b>)</li> <li>▪ Patch management</li> </ul>
<b>DISCRETIONARY</b> Technology Controls	<ul style="list-style-type: none"> <li>▪ Configuration management (automated)</li> <li>▪ Encryption at rest (e.g., file, folder, table or whole drive)</li> <li>▪ Host Intrusion Prevention System (<b>HIPS</b>)</li> <li>▪ Mobile Device Management (<b>MDM</b>)</li> <li>▪ Multi-Factor Authentication (<b>MFA</b>)</li> <li>▪ Network Intrusion Detection / Protection (<b>NIDS / NIPS</b>)</li> <li>▪ Next Generation Firewall (<b>NGF</b>)</li> <li>▪ Privileged Identity &amp; Account Management (<b>PIAM</b>)</li> <li>▪ Security Incident Event Manager (<b>SIEM</b>)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Database encryption</li> <li>▪ Database Access Management (<b>DAM</b>)</li> <li>▪ Data Loss Prevention (<b>DLP</b>)</li> <li>▪ Dynamic / Static Application Security Testing (<b>DAST / SAST</b>)</li> <li>▪ Network Access Control (<b>NAC</b>)</li> <li>▪ Penetration test</li> <li>▪ Privileged Identity &amp; Account Management (<b>PIAM</b>)</li> <li>▪ Session recording</li> <li>▪ Web Application Firewall (<b>WAF</b>)</li> </ul>

Figure 3: Mandatory vs Discretionary technology control expectations





## ZONE-BASED APPROACH TO DISCRETIONARY CONTROLS

An additional way to help determine the applicability of Discretionary controls is through a zone-based approach to evaluating if Discretionary controls would be prudent, based on possible risks that are unique to the networking environment.

Zone	Definition of Cybersecurity Risk Zones	Risk Considerations
1	Systems that are exposed to the Internet: <ul style="list-style-type: none"> <li>- Assets in an external-facing Demilitarized Zone (DMZs)</li> <li>- Servers with a direct connection to the Internet</li> </ul>	Discretionary controls are reasonably-expected, due to the direct Internet exposure.
2	Network segments that are dedicated to workstations and end-user equipment: <ul style="list-style-type: none"> <li>- Internal workstations &amp; mobile / remote users</li> <li>- End-user equipment (e.g., desktop printers, scanners, etc.)</li> </ul>	Mandatory controls are expected in this desktop / laptop / mobile device environment.
3	Network segments that are dedicated to internal servers and infrastructure equipment: <ul style="list-style-type: none"> <li>- Servers</li> <li>- Networking equipment (e.g. networked printers, switches, internal servers)</li> </ul>	A mixture of Mandatory and Discretionary controls are expected in this environment, since it is the internal server and network infrastructure environment.
4	Internal DMZs are segmented for statutory, regulatory or special business requirements: <ul style="list-style-type: none"> <li>- PCI DSS cardholder data environment</li> <li>- HVAC / facility control systems</li> <li>- Test / development / staging environments</li> </ul>	A mixture of Mandatory and Discretionary controls are expected in this environment, since some segments will require Enhanced controls (e.g., in scope for PCI DSS or NIST 800-171) while others should have Basic controls (e.g., Test, Dev and Stage).
5	Encompasses all Bring Your Own Devices (BYOD) categories of equipment: <ul style="list-style-type: none"> <li>- User-owned laptops</li> <li>- User-owned smart phones</li> </ul>	Based on the "hands off" approach to BYOD, there is generally little-to-no ability to install endpoint controls, so Discretionary controls should be used at the network-level to control BYOD risks.

Figure 4: Zone-based risk zones

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## SHARED CONFIGURATION SETTINGS

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The following organization-wide configuration settings are intended to be used on all applicable ACME assets, unless an approved deviation from these settings is authorized.

### CENTRALIZED AUTHENTICATION SERVICES

#### ACTIVE DIRECTORY (AD)

- Domain Controller(s) (DC)
  - [insert hostname & IP address of primary DC server(s)]
  - [insert hostname & IP address of backup DC server(s)]
- Domain Name: [insert domain name]

#### LIGHTWEIGHT DIRECTORY ACCESS PROTOCOL (LDAP)

- LDAP servers:
  - [insert hostname & IP address of primary LDAP server]
  - [insert hostname & IP address of backup LDAP server]
- Distinguished username: [insert distinguished name of the LDAP server account]
- Security: Use LDAP over TLS (LDAP-S), where possible
- LDAP Ports:
  - LDAP: 389/TCP & 389/UDP
  - LDAP-S: 636/TCP

#### RADIUS - AUTHENTICATION, AUTHORIZATION & ACCOUNTING (AAA)

- RADIUS servers:
  - [insert hostname & IP address of primary RADIUS server]
  - [insert hostname & IP address of backup RADIUS server]
- Radius Ports:
  - Authentication Ports: 1812/UDP & 1645/UDP
  - Accounting Ports: 1813/UDP & 1645/UDP
- Timeout: 5 seconds
- Retry Count: 3

### CENTRALIZED LOG COLLECTION

#### SECURITY INCIDENT EVENT MANAGER (SIEM)

- Name: [insert hostname of SIEM server]
- Log collectors:
  - [insert hostname & IP address of primary log collector]
  - [insert hostname & IP address of backup log collector]
- Port: 514/UDP

### NETWORKING SERVICES

#### NETWORK TIME PROTOCOL (NTP)

- External NTP Servers
  - Primary: tick.usnogps.navy.mil [204.34.198.40]
  - Alternate: tock.usnogps.navy.mil [204.34.198.41]
- Internal NTP Servers
  - [insert hostname & IP address of primary NTP server]

## SERVER-CLASS SYSTEMS

Server-class systems include, but are not limited to:

- Microsoft Server
- Linux
- Unix

Server-class considerations for assigning Basic vs Enhanced controls are covered in the following chart to establish expectations for technology-based controls to protect servers:

Assurance Level	BASIC	ENHANCED
Level of Effort	Meets industry-recognized secure practices	Greater than basic industry-recognized secure practices
<b>MANDATORY</b> Technology Controls for Servers	<ul style="list-style-type: none"> <li>▪ Antimalware (host-based)</li> <li>▪ Encryption in transit (e.g., SSL/TLS, SFTP, SSH, etc.)</li> <li>▪ Log collection (forwarded to centralized log collector)</li> <li>▪ Patch management</li> <li>▪ Identity &amp; Access Management (IAM)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Antimalware (host-based)</li> <li>▪ Configuration management (automated)</li> <li>▪ Encryption at rest (e.g., file, folder, table or whole drive)</li> <li>▪ Encryption in transit (e.g., SSL/TLS, SFTP, SSH, etc.)</li> <li>▪ File Integrity Monitoring (<b>FIM</b>)</li> <li>▪ Host Intrusion Prevention System (<b>HIPS</b>)</li> <li>▪ Log collection (forwarded to <b>SIEM</b>)</li> <li>▪ Multi-Factor Authentication (<b>MFA</b>)</li> <li>▪ Patch management</li> </ul>
<b>DISCRETIONARY</b> Technology Controls for Servers	<ul style="list-style-type: none"> <li>▪ Configuration management (automated)</li> <li>▪ Encryption at rest (e.g., file, folder, table or whole drive)</li> <li>▪ Host Intrusion Prevention System (<b>HIPS</b>)</li> <li>▪ Multi-Factor Authentication (<b>MFA</b>)</li> <li>▪ Privileged Identity &amp; Account Management (<b>PIAM</b>)</li> <li>▪ Security Incident Event Manager (<b>SIEM</b>)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Data Loss Prevention (<b>DLP</b>)</li> <li>▪ Privileged Identity &amp; Account Management (<b>PIAM</b>)</li> </ul>

Figure 6: Mandatory vs Discretionary technology control expectations for server operating systems

## MICROSOFT SERVER OPERATING SYSTEMS

### ACTIVE DIRECTORY

#### SECURE BASELINE CONFIGURATION

For this technology, the following secure baseline configuration is considered the ACME-approved standard to use:

[choose one (or more) and delete others that are not applicable]

- DISA STIG – Active Directory Forest STIG v2.8<sup>11</sup>
- DISA STIG – Active Directory Domain STIG v2.11<sup>12</sup>
- OEM – Microsoft – Best Practices for Securing Active Directory<sup>13</sup>

#### APPROVED DEVIATIONS

- [list any requirements not met and the justification for the deviation]

#### DISCRETIONARY CONTROLS

- [list any Discretionary controls that are required to be deployed with this OS build]

<sup>11</sup> DISA STIG - <https://iase.disa.mil/stigs/Pages/a-z.aspx>

<sup>12</sup> DISA STIG - <https://iase.disa.mil/stigs/Pages/a-z.aspx>

<sup>13</sup> Microsoft – Best Practices for Securing Active Directory - <https://docs.microsoft.com/en-us/windows-server/identity/ad-ds/plan/security-best-practices/best-practices-for-securing-active-directory>