

# ZeroLock<sup>®</sup> Compliance Overview for NIST CSF 2.0

Designed to align with the five core functions of NIST Cybersecurity Framework (CSF) 2.0, ZeroLock<sup>®</sup> delivers a comprehensive, multilayered defense strategy. By integrating advanced attack prevention, AI-driven behavioral detection, and automated remediation, ZeroLock proactively secures your hypervisors against emerging threats. With real-time threat intelligence and adaptive security controls, ZeroLock helps organizations streamline compliance while fortifying their cybersecurity posture.

Function	Category	Applicable Features
<b>Identify (ID)</b>	<ul style="list-style-type: none"><li>Asset Management (ID.AM)</li><li>Risk Assessment (ID.RA)</li><li>Improvement (ID.IM)</li></ul>	<ul style="list-style-type: none"><li>• Network Access Rules</li><li>• Program Execution Rules</li><li>• Program Filter</li><li>• API Integration</li></ul>
<b>Protect (PR)</b>	<ul style="list-style-type: none"><li>Identity Management, Authentication, and Access Control (PR.AA)</li><li>Data Security (PR.DS)</li><li>Platform Security (PR.PS)</li><li>Technology Infrastructure Resilience (PR.IR)</li></ul>	<ul style="list-style-type: none"><li>• SSH MFA</li><li>• File Access Rules</li><li>• SSO Integration</li><li>• Use of Cryptography</li><li>• Canary Files</li></ul>
<b>Detect (DE)</b>	<ul style="list-style-type: none"><li>Continuous Monitoring (DE.CM)</li><li>Adverse Event Analysis (DE.AE)</li></ul>	<ul style="list-style-type: none"><li>• Ransomware Detection</li><li>• Cryptojacking Detection</li><li>• Tampering Detection</li><li>• Email Alerts</li></ul>
<b>Respond (RS)</b>	<ul style="list-style-type: none"><li>Incident Management (RS.MA)</li><li>Incident Analysis (RS.AN)</li><li>Incident Mitigation (RS.MI)</li></ul>	<ul style="list-style-type: none"><li>• Automated Process Trees</li><li>• Endpoint Quarantine</li><li>• Virtual Patching</li></ul>
<b>Recover (RC)</b>	<ul style="list-style-type: none"><li>Incident Recovery Plan Execution (RC.RP)</li></ul>	<ul style="list-style-type: none"><li>• Automated File Rollback</li></ul>



## ZeroLock Endpoint Agent Requirements for Hypervisors

<b>OS</b>	<ul style="list-style-type: none"><li>• ESXi, 6.7+ (Older versions supported upon request.)</li><li>• Nutanix, AHV-2017+</li><li>• XenServer, 6.5+</li><li>• Citrix Hypervisor, 8.0+</li><li>• Proxmox, 3.0+</li><li>• Red Hat Enterprise Virtualization (RHEV), 3.6+</li><li>• KVM, Kernel 3.5+</li></ul>
<b>Processor</b>	x86-64, ARM-64 (coming soon)
<b>Memory</b>	50MB
<b>Disk Space</b>	100MB
<b>Kernel Mods</b>	No kernel modification or modules required
<b>Installation Methods</b>	<ul style="list-style-type: none"><li>• One-line, web-based deployment (Wget)</li><li>• File-based deployment (Tar.gz or Bash)</li><li>• ESXi: Signed VIB and deployable via vCenter</li></ul>

## ZeroLock Server Requirements (Only required for on-prem deployment.)

<b>RAM</b>	16GB
<b>Disk Space</b>	512GB (Dependent on number of endpoints and data retention period.)
<b>CPU Cores</b>	6 or more recommended
<b>Installation Reqs.</b>	<ul style="list-style-type: none"><li>• Self-deployment: Latest version of Docker installed</li><li>• OVA-deployment: ESXi 7.0 or later</li></ul>

## ZeroLock Bidirectional API-First Architecture

<b>Documentation</b>	Visit <a href="https://api.zerolock.com">api.zerolock.com</a> for a full API
<b>Existing Integrations</b>	<ul style="list-style-type: none"><li>• SIEM: Splunk, Sumo Logic, Elastic</li><li>• SOAR: Swimlane</li><li>• Incident API: Veeam</li></ul>

## About Vali Cyber

Vali Cyber, Inc. was founded in 2020 with the mission of addressing the specific security needs of Linux and its derivatives. By focusing on creating a Linux-first security solution with increased efficacy and reduced Total Cost of Ownership (TCO), we created the ZeroLock platform. Our approach puts clients in control of their hypervisor & Linux security by reducing analyst and computational overhead, while simultaneously ensuring uptime with state-of-the-art AI behavioral techniques to stop attacks and automated file rollback to restore your most critical data in milliseconds. Imagine detecting and fully remediating a ransomware attack on your hypervisor in real-time...that dream has become reality.



MADE IN THE U.S.A.



Vali Cyber® and ZeroLock® are trademarks of Vali Cyber, Inc.  
Linux® is the registered trademark of Linus Torvalds.

©Vali Cyber, Inc. | [valicyber.com](https://valicyber.com)