

Advanced Threat Protection Suite

CYBERHOUND

Advanced Threat Protection for Schools



Protecting School Networks

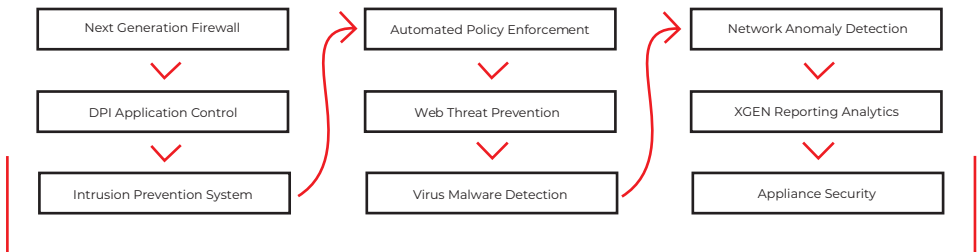
Superloop's CyberHound has invested millions of dollars in developing a unique K12 solution for schools. Every aspect of our solution and service has been designed to meet the specific needs of the K12 market.

CyberHound has developed one of the most advanced sets of multi-layered 'defence in depth' security platforms to deliver reliable cybersecurity for schools.

This platform now sets the benchmark for K12 security coupled with the extensive set of additional features within the Unified Threat Management or Secure Web Gateway solutions.

These are all supported and updated by CyberHound's Managed Security Cloud Services - all delivered securely from the most secure data centres in Australia.

9 Layers of Security



Superloop CyberHound Managed Security Cloud Services



Firewall

Next Generation Firewall delivers application aware firewalling to the enterprise with inbuilt controls for the identification and control of evasive technologies such as anonymisers, VPNs, proxies and more.

This mature and evolving core capability of the CyberHound platform boasts flexible configuration for network, port, application, protocol, time of day, group and custom date range.

Optimised for high throughput networks up to 10 Gbps it now also includes new advanced Application Controls.



Category Web Filtering

Advanced category web filtering provides 500+ categories of content to ensure granular access to online digital content in real-time.

Categorization is informed by over 600 million users globally and 4 trillion queries a month, and uses a combination of machine learning and 24x7 human quality assurance to maintain access and acceptable use policies in real time.

This includes URL, IP and page level detection of emerging exploits e.g. malware, phishing, fraud, botnets and zero day threats.



Virus & Malware Protection

Next generation technology identifies new threats with highly accurate detection and prevention of malware pre-execution. This provides protection from system and memory based attacks as well as scripting, spear phishing and malicious programs.

Traffic is scanned using the latest virus and malware signatures available that are updated daily, ensuring the best protection for the network.



Application Control

Superloop CyberHound's Unified Threat Management (UTM) Series Appliance delivers enhanced application control utilising scalable Deep Packet Inspection (DPI) technology resulting in prevention of malicious content, external threats and inappropriate activity.

1600+ application signatures with regular updates are seamlessly analysed through layers 3 to 7. Our IPS identifies applications in as few as 3 packets allowing early packet discard (e.g. in cases of malware) and enables granular application visibility, monitoring and control.



Intrusion Prevention System

High performance flow-based Intrusion Prevention System (IPS) delivers advanced threat protection by inspecting network traffic for exploits and vulnerabilities.

Our IPS includes hyperscale architecture with real-time threat detection prevention and detection including malware and zero day identification.

With 12,000+ rules, weekly updates and advanced GeoIP controls, live monitoring and historical reporting and analytics that can be integrated with third party SIEM providers, our IPS provides protection against the latest known and unknown threats.



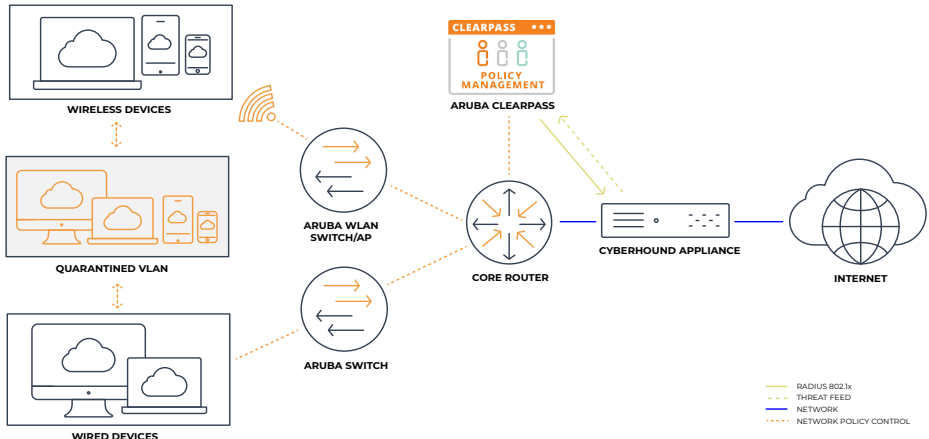
Aruba ClearPass

Aruba ClearPass extends a network's security capabilities by utilising CyberHound's IPS threat intelligence feeds to manage infected devices and apply automated policy enforcement.

Our certified integration with Aruba ClearPass enables automated actions

based on threat severity, category and your customised policies.

Block and remove users from the network as well as automatically move infected devices to a quarantined network with custom block messages. See diagram below for more information.





Network Anomaly Detection

Active scanning of network traffic for anomalous behaviour, brute force detection, prevention and alerting as well as Botnet alerting and known threat detection enhances network protection, including in BYOD environments.

Plus IP based connection rate limits are able to be set to further ensure network security.



XGEN Reporting

The XGEN Reporting platform contains a centralized repository incorporating live data collected from the various layers of network traffic for easy to use reporting, alerting and analysis of data.

Data includes 5 major sources across network monitoring, firewall activity, IPS data, virus and malware detection and GeoIP events and more.

XGEN Reporting also includes template best practice reports, admin access audit logging and integration to third party tools and SIEM providers.

“**We are proud to partner with Superloop CyberHound to accelerate their innovative, vertically-focused solution built on HPE ProLiant DL360 Gen10 servers, the industry's most secure industry-standard server. It is exciting to see our combined security-focused visions and technologies successfully keeping our children and educators safe worldwide.**”

Philip Spiessens, Senior Director, Global OEM, Aruba



Data Privacy Protection

Data protection and privacy is much more than just security, it requires control over services providers, data location, access and support.

Superloop CyberHound is owned by Superloop, an Australian Telecommunications provider subject to extensive legislation to protect customer data and networks and is fully compliant with the Australian Privacy Act.

All data used for cloud Managed Security services is hosted in tier 3 data centres in Australia with full data encryption.



Appliance Platform

CyberHound's HPE appliance platforms (Gen10) boasts the world's most secure industry standard server platform.

HPE's iLO Advanced Premium Security includes run-time firmware validation, unique silicon "root of trust" protection for BIOS and firmware updates, prevention against firmware and BIOS attacks and automated recovery capabilities.

HPE's iLO also provides other advanced monitoring capabilities. HPE's platforms offer best-in-class performance and value for schools.



Support

We provide the highest level of support from experienced technical experts, based in Australia, with deep expertise in our technology and school network requirements. We also provide proactive service reviews to ensure optimal use of the technology. All hardware appliances are provided through our OEM partnership with HPE and are custom built for performance and in-built hardware resilience. These are backed up by 24x7x4 on-site hardware support (subject to HPE terms).



Managed Security Services

Our Managed Security Services ensures real-time security updates are provided seamlessly to our customers with zero downtime or need for local administration.

These updates are managed from our secure cloud service infrastructure that also includes secure configuration backups in the event of a critical restore.

CyberHound's security updates cover all aspects of the Advanced Threat Protection Suite and utilise global and local threat intelligence feeds in combination with our security partnerships with leading cybersecurity service providers.



Deployment Options

Most schools deploy the CyberHound solution as a physical on-premise appliance using one of CyberHound's tested appliance range. We also support VMware (5.0+) and Hyper-V (2012 R2+) for virtualised environments and

can recommend appropriate resource requirements.

The platform can be hosted in private or public clouds and we also offer hosting services and full managed service options.

HR3-SERIES REDUNDANT	HR2-SERIES REDUNDANT
Over 3,000 Users	Over 1,200 Users
Dual Intel 12-core E5 Xeon CPU	Dual Intel Octa-core E5 Xeon CPU
128GB Ram	64GB Ram
4 x 480GB Hot Swap SSD Drives, Raid 10 Storage	2 x 480GB Hot Swap SSD Drives, Raid 1 Storage
4 x 1GB Ethernet Interfaces (expandable to 12)	4 x 1GB Ethernet Interfaces (expandable to 12)
2 x 10GB 10GB Cat6e Ethernet or SFP+ Ports (expandable to 6)	Optional 2 x 10GB Cat6e Ethernet or SFP+ Ports (expandable to 6)
Redundant Hot Swap Power Supplies	Redundant How Swap Power Supplies
8 x Hot Swap Fans	8 x Hot Swap Fans
HPE iLo Systems Management Suite	HPE iLo Systems Management Suite
HR-SERIES REDUNDANT	H-SERIES
Up to 1,200 Users	Up to 400 Users
Intel Octa-core E5 Xeon CPU	Intel Quad-core E3 Xeon CPU
32GB Ram	16GB Ram
2 x 480GB Hot Swap SSD Drives, Raid 1 Storage	2 x 480GB Hot Swap SSD Drives, Raid 1 Storage
Optional 2 x 10GB Cat6e Ethernet or SFP+ Ports (expandable to 6)	4 x 1GB Ethernet Ports (expandable to 6)
Redundant How Swap Power Supplies	Single Power Supply + 2 x Fans
6 x Hot Swap Fans	
HPE iLo Systems Management Suite	

CyberHound Advantage

Added Benefits

CyberHound offers many advantages for Australian K12 schools . We provide schools with the ability to optimise, secure and manage their Internet services. We help students engage in new forms of learning and help staff confidently use digital content and resources without the worry of access, Internet performance or Internet reliability. We help schools protect their data and simply improve school outcomes.

Over 20 years of focused Research and Development investment has delivered substantial benefits from the custom features for schools and the partnerships we have built. Our support and managed security services help IT teams by reducing their support needs and providing peace of mind from the simplicity and reliability of the solution.

We help schools focus on improving teaching outcomes through reliable and secure availability of digital services and content while enhancing student cybersafety and welfare. Most importantly we ensure complete cybersecurity for schools and ensure that sensitive data is secured and managed in compliance with Australian Data Privacy Standards.

“Internet trends change quickly so to have a solution that provides the flexibility to create and implement custom policies to combat anything concerning quickly provides us with a lot of confidence to safeguard our school community.”

Ross Oakes, Network Administrator Mount Lawley Senior High School

About Superloop

CyberHound is a part of the Superloop Group. Superloop is one of Asia Pacific’s most innovative telecommunications providers. Superloop focuses on providing high levels of innovation and service backed up by reliable cybersecurity capabilities.

Superloop Ltd is listed on the ASX (SLC).