Endian UTM Virtual Appliance

- Prebuilt VMware appliance for ESX or ESXi
- Support for both Xen and Citrix XenServer
- Prebuilt Microsoft Hyper-V appliance
- Support for KVM hypervisor
Endian UTM Virtual Appliance: Secure and Protect your Virtual Infrastructure

Whether you are securing your internal virtual business environment, running a world-class hosting or colocation facility, or providing cloud services - the Endian UTM Virtual Appliance can provide superior network security to protect your virtual infrastructure from any potential threats.

Simple and Effective
By providing simple and effective network security solutions, Endian helps businesses leverage new virtual and cloud technologies to:

- Secure the entire virtual infrastructure (internally and externally)
- Seamlessly integrate with current virtual platform investments and their management tools
- Save time and effort (i.e. money) with Endian centralized management and support tools
- Securely connect all of the virtual or hosted infrastructure to the main office using VPN
- Monitor and prevent access to and from the virtual systems to the outside world
- Safeguard all inter-VM, internal, and external network connectivity

All of these objectives and more can be achieved using the Virtual Appliance.

Endian Advantages
The Virtual Appliance offers the most intuitive and universally supported solution available by including things like:

- Support for four major virtual platforms including VMware, Xen, Hyper-V and KVM
- Unified, intuitive user interface across all platforms -- hardware, software, and virtual
- Extremely efficient and scalable resource requirements
- Native support included for available virtual infrastructure toolsets

In addition, you can utilize all of the great features that come with all flavors of the Endian UTM family including centralized management and monitoring via Endian Network, the simplest web interface available, best of breed open-source software, top-notch Endian support and much more.

Flexible Security
Endian offers a wide range of network security products to fit any requirement including hardware, software or virtual solutions. This means you can use the leading open source unified threat management product however and wherever you need.
Endian UTM Virtual Appliance Use Cases

Protect the Virtual Network
Most virtual networks are not much different from physical networks so the same networking and security principles should be applied. Whether you’re running a virtualized platform in the data center or at remote offices, concepts like network separation are critical to safeguard various virtual resources from each other, protect and separate the virtual data and management networks, prevent the spread of malware, and provide containment against hackers and other threats.

Secure External Connectivity
All virtual networks require some form of physical connectivity which means you may want to securely connect virtual resources to the outside world. Endian provides this with both IPSec or SSL VPN (OpenVPN) and multiple connectivity options including network-to-network and individual remote access (roadwarrior). Whether you are using virtual platforms to connect remote offices, link up data centers, or just for disaster recovery, Endian has the solution for you.

Hosted / Cloud Services
If you are providing some form of a hosted or cloud public service then you already recognize how important it is to ensure to your existing and potential customers that you implement maximum security processes and technology. Our virtual solution can enhance any hosted service from simple web and email services to more complex VoIP and VPN configurations. The Virtual Appliance makes securing your virtual platform simple, scalable, and best of all cost-effective.

Virtual Appliance Highlights
- Optimized for Virtual Platforms
- VMware Prebuilt Appliance
- Xen Prebuilt Appliance*
- KVM Prebuilt Appliance
- Hyper-V Prebuilt Appliance
- Centralized Management Included
- Robust Firewall
- IPS with Deep Packet Inspection
- IPSec and SSL VPN (OpenVPN)

* Citrix XenServer & Xen are supported
Endian UTM Features

**Network Security**
- Stateful packet firewall
- Application control (including Facebook, Twitter, Skype, WhatsApp and more)
- Demilitarized zone (DMZ)
- Intrusion detection and prevention
- Multiple public IP addresses
- Multiple WAN
- Quality of service and bandwidth management
- SNMP support
- VoIP/SIP support
- SYN/ICMP flood protection
- VLAN support (IEEE 802.1Q trunking)
- DNS proxy/routing
- Anti-spyware
- Phishing protection

**User Authentication**
- Active Directory / NTLM
- LDAP
- Active Directory / NTLM

**Virtual Private Networking**

**IPsec**
- Hash algorithms: MD5, SHA1, SHA2 256/384/512-bit, AESX/20
- Diffie Hellman modes: 1, 2, 5, 14, 15, 16, 17, 18, 22, 23, 24
- Authentication: pre-shared key (PSK), RSA keys
- X.509 certificates
- IKEv1, IKEv2
- Dead Peer Detection (DPD)
- NAT traversal
- Compression
- Perfect Forward Secrecy (PFS)
- VPN Site-to-Site
- VPN Client-to-Site (roadwarrior)
- L2TP user authentication
- XAUTH user authentication

**OpenVPN**
- Encryption: DES, 3DES, AES 128/192/256-bit, CAST5, Blowfish
- Authentication: pre-shared key, X.509 certificates
- Support for VPN over HTTP Proxy
- PPTP passthrough
- VPN client-to-site (roadwarrior)
- VPN client for Microsoft Windows and Apple OS X
- Possibility of multiple logins per user
- VPN failover
- Multiple server support
- Support for mobile devices (Android, iOS)

**BYO/D / Hotspot**
- Configurable captive portal
- Use your website as portal (SurfNow Button)
- Free access to allowed sites (walled garden)
- Wired / wireless support
- Integrated RADIUS service
- Connection logging
- Bandwidth limiting based on user, ticket or global settings
- Social login (Facebook, Google)
- Social Enabler (sharing on social networks)
- MAC-address based user accounts
- Configurable multiple logins per user
- User accounts import/export via CSV
- User password recovery
- Automatic client network configuration (support for DHCP and static IP)
- Fully integrated accounting
- Generic JSON API for external accounting and third party integration
- Instant WLAN ticket shop (Smart-Connect)
- Single-click ticket generation (Quick ticket)
- SMS/e-mail user validation and ticketing
- Pre-/postpaid and free tickets
- Time-/traffic-based tickets
- Configurable ticket validity
- Terms of Service confirmation
- MAC address tracking for free hotspots
- Cyclic/recurring tickets (daily, weekly, monthly, yearly)
- Remember user after first authentication (SmartLogin)
- Multi-location setup through master/satellite configuration
- External authentication server (Local, LDAP, Active Directory, RADIUS)

**VPN Portal for Clientless Connections**
- Web-based access to internal resources
- Configurable portal page
- Support for multiple destinations
- Destination-based authentication
- SSL offloading

**User Management & Authentication**
- Unified user management for OpenVPN, L2TP, XAUTH, VPN Portal
- Group management
- Integrated certificate authority
- External certificate authority support
- User password and certificate management
- Multiple authentication servers (local, LDAP, Active Directory, RADIUS)
- Fully integrated one-time password (OTP) support
- Let’s Encrypt Support

**Bridging**
- Firewall stealth mode
- OSI layer 2 firewall functionality
- Spanning tree
- Unlimited interfaces per bridge

**High Availability**
- Hot standby (active/passive)
- Node data/configuration synchronization (not for BYOD/Hotspot)

**Event Management**
- More Than 30 Individually Configurable Events
- Email Notifications
- SMS Notifications
- Powerful Python Scripting Engine

**Logging and Reporting**
- Reporting dashboard
- Detailed system, web, email, attack and virus reports
- Live network traffic monitoring (powered by nttopng)
- Live log viewer
- Detailed user-based web access report (not in Mini 10 and Mini 10 WiFi)
- Network/system/performance statistics
- Rule-based logging settings (firewall rules)
- Syslog: local or remote
- OpenTSA trusted timestamping

**Extra Services**
- NTP (Network Time Protocol)
- DHCP server
- SNMP server
- Dynamic DNS

**Management / GUI**
- Centralized management through Endian Network (SSL)
- Easy Web-Based Administration (SSL)
- Multi-language web-interface (English, Italian, German, Japanese, Spanish, Portuguese, Chinese, Russian, Turkish)
- Secure remote SSH/SCP access
- Serial console

**Updates and Backups**
- Centralized updates through Endian Network
- Scheduled automatic backups
- Encrypted backups via email
- Instant recovery / Backup to USB stick (Endian Recovery Key)

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* Not in UTM Software 10, UTM Virtual 10, UTM Mini 10, UTM Mini 10 WiFi
** Master functionality not in UTM Mini 25, UTM Mini 25 WiFi and UTM Mercury 50