

## Secure, Hardware-Agnostics Endpoint OS

### OVERVIEW

## What Is SnapOS?

SnapOS is a purpose-built, hardened Linux-based endpoint operating system engineered for enterprise VDI, DaaS, SaaS, and secure browsing environments. With a locked-down security model at its core, SnapOS transforms most x86-64 devices, or virtual machines, into a secure, centrally managed endpoint, delivering CAPEX and OPEX savings, extending hardware lifecycle, and simplifying IT operations at a fraction of the cost of established thin client OS platforms.



#### Hardware Agnostic & Highly Scalable

Runs on most x86-64 devices with UEFI or Legacy BIOS firmware repurpose existing PCs, laptops, and thin clients, or deploy factory zTC hardware. Scale from a handful of endpoints to fleets of 1,000+, centrally managed.



#### Standardized Desktops & Repurposing

A unified end-user experience the same look and feel across every device, regardless of make or model. Convert new and existing hardware without a refresh. Secured, updated, and supported through AmZetta zMAN Director from first boot through ongoing operations, without on-site visits.



#### Any EUC Environment, Any Cloud

Built for any VDI or cloud environment, on-prem or remote. Native clients for Citrix Workspace, Microsoft AVD, Omnisia Horizon, and Amazon WorkSpaces, plus browser-based SaaS.



#### Easy to Install and Boot

Live boot without touching the underlying OS, or install to disk via USB or PXE. Dual boot installs alongside Windows for a phased migration or occasional native access.



#### Enterprise-Grade Security

Nothing is stored on the endpoint. Immutable Linux base resists malware. Full disk encryption, SCEP certificate enrollment, and 802.1X network access control provide layered, compliance-ready protection. al boot installs alongside Windows for a phased migration or occasional native access.



#### Always Centrally Managed

Every endpoint is provisioned, configured, secured, updated, and supported through AmZetta zMAN Director from first boot through ongoing operations, without on-site visits.

# Technical Specifications

## ■ Enterprise-Grade Security

- Secure, Hardened Linux-Based OS
- Immutable, Read-Only OS Partition
- x86-64 / UEFI or Legacy BIOS Platform Support
- Runs on zTC Thin Clients or Most UEFI/Legacy BIOS PC/Laptop
- Workstation-Class Hardware Support (GPU)

## ■ Boot & Deployment Options

- Live Boot (USB)
- PXE Network Boot
- MSI Installer (SCCM/Intune)
- Dual Boot Alongside Windows

## ■ VDI Desktop Environment

- Purpose-Built VDI Desktop Environment
- Hierarchical Start Menu

## ■ Device Redirection & USB

- USB Mass Storage / Pen Drives
- USB Printers
- USB Webcams
- USB Signature Pads
- USB Smart Card / Proximity Readers
- USB Barcode Readers
- USB Audio Headsets (Plug-and-Play)
- USB HID (Keyboard/Mouse) — Automatic
- USB Imaging Devices (Scanners)

## ■ VDI Protocols & Applications

### CITRIX

- Citrix Workspace App (25.5.0.44+)
- Virtual Apps & Desktops (XenApp/XenDesktop)
- StoreFront and NetScaler/Gateway
- HDX Multimedia Redirection
- HDX RealTime Optimization (Teams)
- App Protection (anti-capture)
- USB Redirection Mode (Generic/Optimized)

### OMNISSA HORIZON

- Blast Extreme, PCoIP
- Connection Server, Unified Access Gateway
- USB & Webcam Redirection
- Microsoft Teams Optimization

### MICROSOFT REMOTE DESKTOP

- Direct RDP, RD Web Access, RD Gateway
- RDP Web Client (AVD, Windows 365)
- NLA, RemoteFX, Autologin

### AMAZON WORKSPACES

- PCoIP and WSP Protocols
- Registration Code Enrollment

### BROWSER-BASED VDI (CHROMIUM)

- HTML5 Citrix / Horizon / AVD Access
- Kiosk and Policy-Controlled Mode
- Incognito (Private Browsing) Mode

### MIGRATION

- Dual Boot for Phased Windows

## ■ USB Access Control Policy

- Allow/Block by Device ID (VID:PID)
- Allow/Block by Device Class
- Block All / Allow All Shortcuts
- Restricted Classes (Hub, Wireless Controller)

## ■ Audio & Printing

- PulseAudio Volume Control
- Per-Stream Playback & Recording Levels
- USB Headset Priority Over Analog Jack
- Bidirectional Audio Redirection
- Local USB & Network Printer Support
- Printer Redirection to VDI Session
- LPD, IPP (CUPS), Port-9100 Support

## ■ Display & Input Devices

- Up to 3 Simultaneous Monitors
- Extended and Clone (Mirror) Modes
- EDID Auto-Detect Resolution
- Custom Resolution Override
- DPI / HiDPI Scaling
- Touchscreen Calibration
- On-Screen Keyboard (Onboard)
- Accessibility: Sticky/Slow/Bounce Keys
- Mouse Speed, Sensitivity, Button Swap
- Keyboard Layout / Language Switching

# Security, Networking & Management

## ■ Networking & VPN

### WIRED

- Wired Ethernet
- DHCP and Static IP / DNS / Gateway
- IPv4 and IPv6

### WI-FI

- WPA2 Personal, WPA, WEP, Open
- zMAN-Managed SSID Profiles
- IEEE 802.1X Port-Based Access Control

### VPN CLIENTS

- OpenFortiGUI (Fortinet)
- SonicWALL NetExtender
- OpenVPN

### PROXY

- Auto (WPAD/PAC), Manual, Disabled

## ■ Management Integration (zMAN)

- Zero-Touch Provisioning
- DHCP, DNS, or mDNS Discovery
- Manual Provisioning (Access Key)
- Policy Enforcement & Settings Lock
- Profile Auto-Apply on Boot
- App Configurator (Enable/Disable Apps)
- Restore Profile Settings
- Local & Remote Factory Reset
- Deregistration / Re-Enrollment

## ■ Security, Authentication & Encryption

- Secure, Immutable Linux-Based OS
- Read-Only OS Partition
- No Local Data Persistence
- Locked Package Management
- Minimal Attack Surface
- Protected Admin Shell (ztcAdmin)

### FULL DISK ENCRYPTION

- TPM Preferred
- TPM Mandatory
- User Passphrase
- Recovery Key Management

### CERTIFICATE MANAGEMENT

- DER / PEM / PKCS#12 / PKCS#7
- USB, FTP, or zMAN Push Install
- SCEP Automated Enrollment

### 802.1X NETWORK ACCESS CONTROL

- EAP-TLS Authentication
- RADIUS Compatibility

### USB DEVICE SECURITY POLICY

- Allow/Block by Device ID
- Allow/Block by Device Class
- Centrally Enforced via zMAN

## ■ Firmware Management

- zMAN Remote Update (zDM Cache / S3)
- USB Storage Update (Offline)
- HTTPS URL Manifest Update
- Cryptographic Integrity Verification

## ■ Logging & Diagnostics

- Syslog Remote Logging (TCP/UDP)
- RFC 5424 / 3164 Compliant
- Metricbeat System Metrics Shipping
- Filebeat Log File Shipping
- Configurable Log Retention & Rotation
- zDiag Remote Diagnostic Tool

## ■ Remote Access

- SSH Client (Outbound)
- SSH Server (Inbound via zDM Tunnel)
- VNC Client (Outbound)
- VNC Server (Inbound, Port 5900)

## ■ Browser & Power Management

- Chromium Web Browser
- HTML5 / WebRTC Support
- Kiosk & Incognito Modes
- zMAN Policy-Controlled Access
- Reboot, Shutdown, Suspend
- Wake on LAN & Wake on USB
- Power Scheduling (Daily/Weekly)
- Remote Power Ops via zMAN

## See SnapOS Running in Your Environment

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