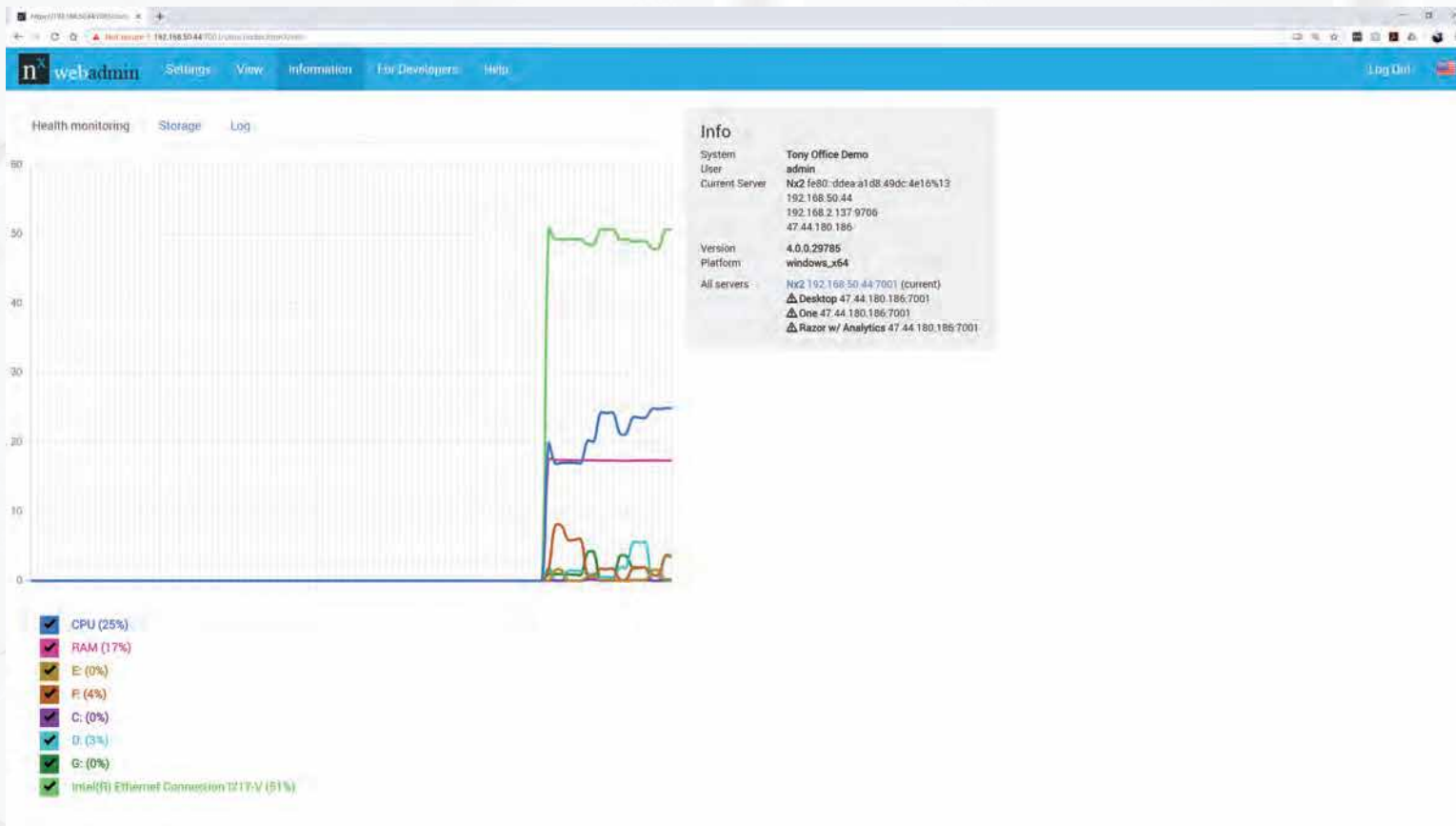




Witness VMS

SERVER OVERVIEW

A lightweight media server application designed for discovering, adding, and managing system resources and their related metadata.



DISCOVER	
	99% of IP Cameras, Webcams
	I/O Devices
	Encoders
	RTSP / HTTP / UDP Streams
	SAMBA NAS Devices
	Nx Systems and Servers

MANAGE	
	Device Configurations
	System Rules
	Failover / Redundancy
	Connections (HTTP, HTTPS)
	Archived Video
	Flexible Archive Backup

VIEW	
	Server Health
	Live / Recorded Video
	System Configuration
	Log Files
	Audit Trail
	Storage Status

INTEGRATE	
	HTTP Events & Actions
	Server API
	Metadata SDK
	Video Source SDK
	Storage SDK
	Server via Cloud API



Witness VMS

SERVER SPECS

COMPATIBLE HARDWARE

RECOMMENDED BASED ON # OF STREAMS

STREAMS	RAM	NIC	CPU
Up to 8	1 GB	1 GB	Dual Core ARM
Up to 16	2 GB	1 GB	Dual Core Atom
Up to 32	4 GB	1 GB	Dual Core Celeron
Up to 64	8 GB	1 GB	Core i3
Up to 128	16 GB	1 GB	Core i3

*CPUs change fast and this spec sheet is fixed.

RECOMMENDED MAXIMUMS

- # OF RESOURCES PER SYSTEM: 10,000
- # OF CLIENTS PER SYSTEM: UNLIMITED
- # OF STREAMS PER SERVER: 128
- # OF SERVERS IN A SERVER HIVE: 100
- # OF USERS IN A SYSTEM: 1000

*Based on lab environments. Designing a system that exceeds the numbers above? Contact us for assistance.

SUPPORTED OPERATING SYSTEMS

WINDOWS

- Windows 7
- Windows 8
- Windows 8.1
- Windows 10
- Windows Server 2008
- Windows Server 2008 R2
- Windows Server 2012
- Windows Server 2012 R2
- Windows 2016 v1607
- Windows 10 Enterprise

UBUNTU LINUX

- Ubuntu Linux 16.04 LTS
- Ubuntu Linux 18.04 LTS

ARM DEVICES

- Raspberry Pi
- Jetson TX1, TX2, XAVIER AGX
- * Contact us to learn more about our ARM support

UNIQUE CAPABILITIES

SERVER HIVE

- SYNCHRONIZATION: SERVERS SYNCHRONIZE SYSTEM DATA IN REAL TIME
- FAILOVER: AUTOMATIC CAMERA FAILOVER WHEN SERVER FAILS

ARCHIVE INTEGRITY

- INTEGRITY CHECK: NOTIFICATION WHEN FILES MANUALLY MODIFIED
- BACKUP: REAL-TIME (CONCURRENT) OR SCHEDULED

NO PREREQUISITE SOFTWARE REQUIRED

- DATABASE: SQLITE + PROPRIETARY ARCHIVE INDEX
- LIGHTWEIGHT: ~75MB INSTALL FILE

STORAGE

- LAN / WAN: HDD SSD NAS (SAMBA)
- STORAGE SDK: INTEGRATE NEW STORAGE MEDIUMS (E.G. FTP, CLOUD)

SECURITY

- USER RIGHTS: LDAP/ACTIVE DIRECTORY SECURE PASSWORD RECOVERY
- TECHNOLOGIES: HTTPS OPEN SSL SALTED MD5 HASH TSL/SSL
- ENCRYPTION: SECURE CONNECTIONS ENCRYPTED VIDEO

SUPPORTED MEDIA STREAMING

LIVE STREAM (AVAILABLE VIA SERVER API)

- VIDEO: H.265 H.264 MJPEG
- AUDIO: MP3
- PROTOCOLS: RTSP WebM HLS
- TRANSCODING: SUPPORTED (FOR WEB CLIENT, MOBILE, API)

OTHER MEDIA

- VIDEOS: AVI MKV MP4 MOV TS M2TS MPEG MPG FLV WMV 3GP
- IMAGES: JPG PNG GIF BMP TIFF
- VIRTUAL CAMERA: Upload footage from offline cameras (e.g. wearable cameras)