



Tenable One Device Profiling

Quick Reference Guide

Last Revised: September 26, 2025



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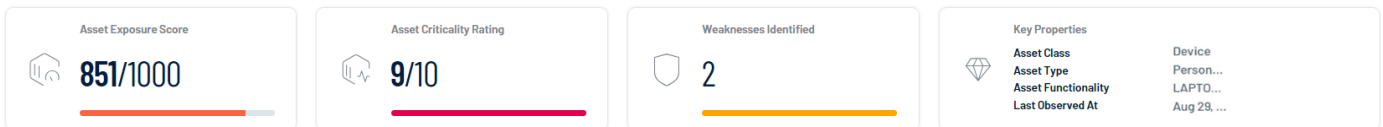


Welcome to the Tenable One Device Profiling Quick Reference Guide

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Device Profiling is a framework that can be used to classify assets in a network. The first phase will focus on device classification while future phases will provide richer context about the asset; e.g. device ownership, administration and location. The framework is designed to be transparent, extendable, and explainable and to produce a holistic (“global”) profile of an asset.

In the Tenable Inventory user interface, you can view the profile of an asset via the [Asset Details](#) page.



Framework

Where possible, each device is assigned a Device Profile and a Device Functionality. A profile is meant to answer the question: “What is this device?”.

In the current framework, each asset belongs to only one of the following profiles:

- Cloud computing device
- Compute and Application Server
- Compute and Application Server (Virtual Machine)
- Healthcare device
- Internet of Things device
- Legacy device
- Network Infrastructure device
- Network Infrastructure device (Virtual Machine)
- OT or Industrial Internet of Things device



- Peripheral device
- Personal Computing device
- Telecommunication device
- Undefined Class
- Workload device or Virtual Machine

A profile captures the fundamental similarity between all devices that belong to the profile and can be used for clustering. While the profile label captures fundamental similarity between the devices in a class, the different functionality within the class capture the fundamental differences between the devices in the class.

Device functionality answers the question: "What does the device do? Or What functionality does it provide?"

Each device can have one or more functionality labels as devices can be multi-functional. Devices within a functionality label share fundamentally similar attributes. Additionally, each Device Profile includes a set of Device Functionality labels. For more information, see [Device Profiles and Functionality](#).



Device Profiles and Functionality

The following table displays each available device profile as well as the functionality labels available for the profile.

Profile	Functionality Labels
NI – Network Infrastructure device	<ul style="list-style-type: none">• DHCP – Dynamic Host Configuration Protocol server• DNS – Domain Name System server• DS – Directory Service protocol (LDAP, GC, etc.) server• FIREWALL_NGFW – Firewall and Next Generation Firewall• HV_HCI – Hypervisors and Hyperconverged Infrastructure• INFRASTRUCTURE_MANAGEMENT – KVM switch, and integrated remote access controllers, UPSs, Network shutdown modules, etc.• LOAD_BALANCER – Traffic load balancer• NETWORK_GEAR – Network switch or router
NI_VM – Network Infrastructure device, Virtual Machine	<ul style="list-style-type: none">• DOMAIN_CONTROLLER – Server responsible for user authentication and access authorization• SAN_NAS – Storage Area Network and Network Attached Storage server• SDN – Software Defined Network server• SSE – Secure Service Edge server• VPN – Virtual Private Network server• NTP – Network Time protocol server• ROUTER_SWITCH_WAP – Small router, switch, and wireless access point device
CAS – Compute and Application Server	<ul style="list-style-type: none">• AC – Aggregator and concentrator• BIP – Business Intelligence platform



- CMS – Content Management System
- DATABASE – Database Management System
- EAM – Enterprise Asset Management system
- FBCR_DP – File backup, caching, replication, and data protection server
- GIS – Geographical Information System
- IAM – Identity and Access Management system
- IRM – IT Risk Management system
- ITSM – IT Service Management system
- MAIL – Email system
- MAINFRAME – Mainframe computer
- MIS – Middleware and Integration server
- MQM – Message Queue Management server
- NGINX – Reverse proxy, load balancing, and caching server
- NMM – Network Management and Monitoring server
- RM – Repository Manager
- SCA – Security Control Application
- UEM – Unified Endpoint Management system
- IGA – Information Governance Application
- CAM – Cloud Application Management
- DPP – Data Pipeline Platform
- VCS – Version Control System
- WCT – Wiki and Collaboration Tool server
- WEB – Web Application server
- PROXY – Proxy server
- SMP – Security Management Portal
- UNDEFINED – Server with unknown functionality



CAS_VM – Compute and Application Server, Virtual Machine	
CLOUD – Cloud computing device	<ul style="list-style-type: none">• AWS_INSTANCE – Amazon compute environment• AZURE_INSTANCE – Azure compute environment• GCP_INSTANCE – Google compute environment
PCD – Personal Computing device	<ul style="list-style-type: none">• LAPTOP_DESKTOP – Personal laptop or desktop• MOBILE_DEVICE – Personal mobile device• STATELESS_ENDPOINT – Thin or zero client device• VM – Virtual machine with a host operating system typically used for personal computing devices.
IOT – Internet of Things device	<ul style="list-style-type: none">• CAMERA_SURVEILLANCE – Camera and surveillance equipment• GATEWAY – Management server of IoT devices and applications• MEDIA_DEVICE – Smart media device• POINT_OF_SALE_DEVICE – Point of Sale Device (POS)• SMART_DEVICE_SENSOR – Multifunction IoT device
PERIPHERAL – Peripheral device	<ul style="list-style-type: none">• FAX – Fax device• PLOTTER – Large format printer or plotter• PRINTER – Printer
TELECOM_DEVICE – Telecommunication device	<ul style="list-style-type: none">• PHONE – Phone or VoIP phone device• TELECOM_SYSTEM – Telecommunication systems, PBX systems, etc• VCE – Video Conferencing Equipment and servers



	<ul style="list-style-type: none">• VOIP_GW_ADAPTER – VoIP gateway adapter• ANTENNA – Distributed Antenna Arrays, etc.
HEALTHCARE_DEVICE – Healthcare device	BP_MONITOR – Blood Pressure monitor
OT_IIOT – OT and Industrial Internet of Things device	<ul style="list-style-type: none">• PLC – Programmable Logic Controller• SERIAL_DEVICE – Serial device• RTOS_EOS – Realtime & Embedded Operating System• GRAPHICS_TERMINAL – Graphics Terminal• RELAY – Relay• BMS – Building Management Systems (BacNET)• OT_DEVICE – Operational technology device• OT_SERVER – OT server, historian, HMI• SIEMENS_DEVICE – Siemens protocol supported device• MOXA_DEVICE – Moxa device• TRIMBLE_DEVICE – Trimble protocol supported device• MODBUS_PROTOCOL – Modbus protocol supported device• OPC_UA_PROTOCOL – OPC-UA protocol supported device• DNP_3_PROTOCOL – DNP-3 protocol supported device• CRIMSON_PROTOCOL – Red Lion Crimson 3 device• SIEMENS_S7_PROTOCOL – Siemens-S7 protocol supported device• OMRON_FINS_PROTOCOL – OMRON Fins protocol supported device• PANASONIC_CONTROL_PROTOCOL – Panasonic Control Station



	<ul style="list-style-type: none">• PROFINET PROTOCOL – Profinet protocol supported device
LEGACY – Legacy device	<ul style="list-style-type: none">• SAN_NAS – Legacy Storage Area Network and Network Attached Storage devices• WINDOWS_2000 – Microsoft Windows 2000 system• WINDOWS_3 – Microsoft Windows 3.* system• WINDOWS_95 – Microsoft Windows 95 system• WINDOWS_98 – Microsoft Windows 98 system• WINDOWS_ME – Microsoft Windows ME system• WINDOWS_NT – Microsoft Windows NT system• WINDOWS_VISTA – Microsoft Windows Vista system• WINDOWS_XP – Microsoft Windows XP system• WINDOWS_SERVER_2003 – Microsoft Windows Server 2003 system• WINDOWS_SERVER_2008 – Microsoft Windows Server 2008 system• WINDOWS_SERVER_2012 – Microsoft Windows Server 2012• WINDOWS_SERVER_2011 – Microsoft Windows Small Business Server 2011• VM – Virtual Machine running a legacy operating system
VM_WORKLOAD – Workload device or a Virtual Machine	<ul style="list-style-type: none">• PCD-OS Workload device running OS typically used for PCD devices• Undefined <div>Note: The VM_WORKLOAD profile can contain any functionality labels from CAS, NI, management servers for IoT, OT-IIoT, etc.</div>



UNDEFINED – Unknown
device

Undefined