



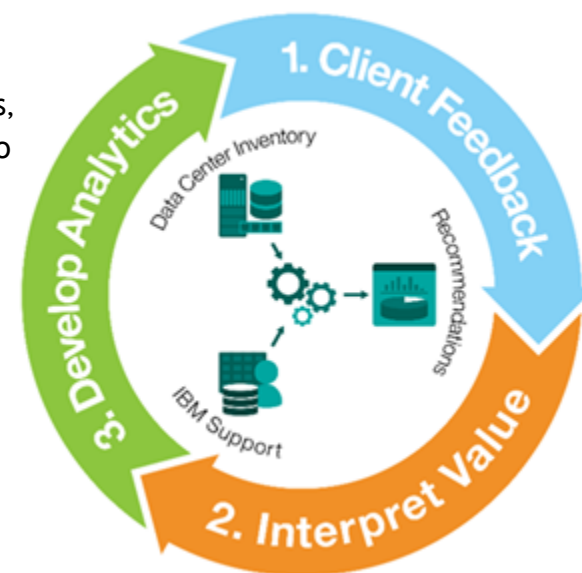
Technical Support Appliance Summary Report

Company:	SAMPLE REPORT01		
TSA Entity ID:	EPS/COLC00000001		
Appliance Name:	jhproweb2		
Version:	2.4.0.0	Transmission Date:	Mar 31, 2019
Latest Version:	2.4.0.0	Report Run Date:	Mon, April 1, 2019

The Technical Support Appliance solution includes device discovery and support-based analytics, and promotes a collaborative relationship with IBM TSS to develop insights that are important to you. The reports provide an aggregation point for your datacenter device and operating system inventory.

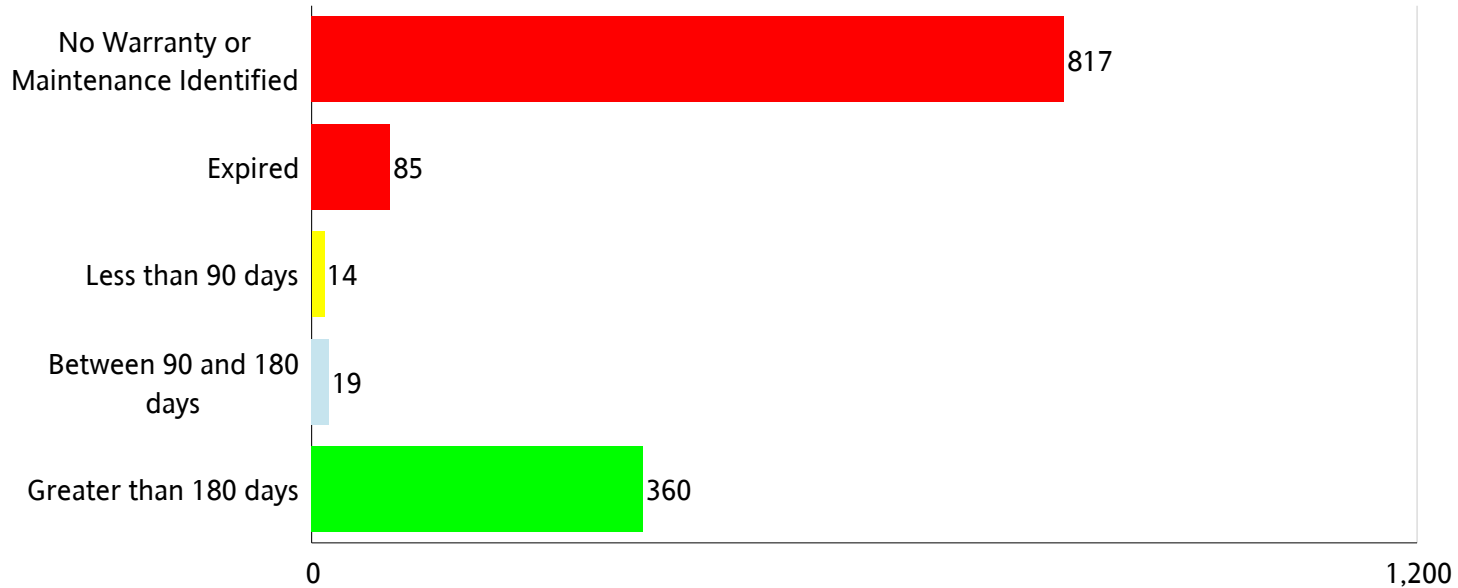
Recommendations and storage<->host recipes are a valuable starting point when considering maintenance windows and can assist with strategic planning. As always, IBM recommends that you evaluate and prioritize new features and fixes before implementing code updates.

Information provided in this report is summarized in the TSA Detail Report of the same date.





Hardware Support Coverage Status (Warranty or Maintenance Contract)



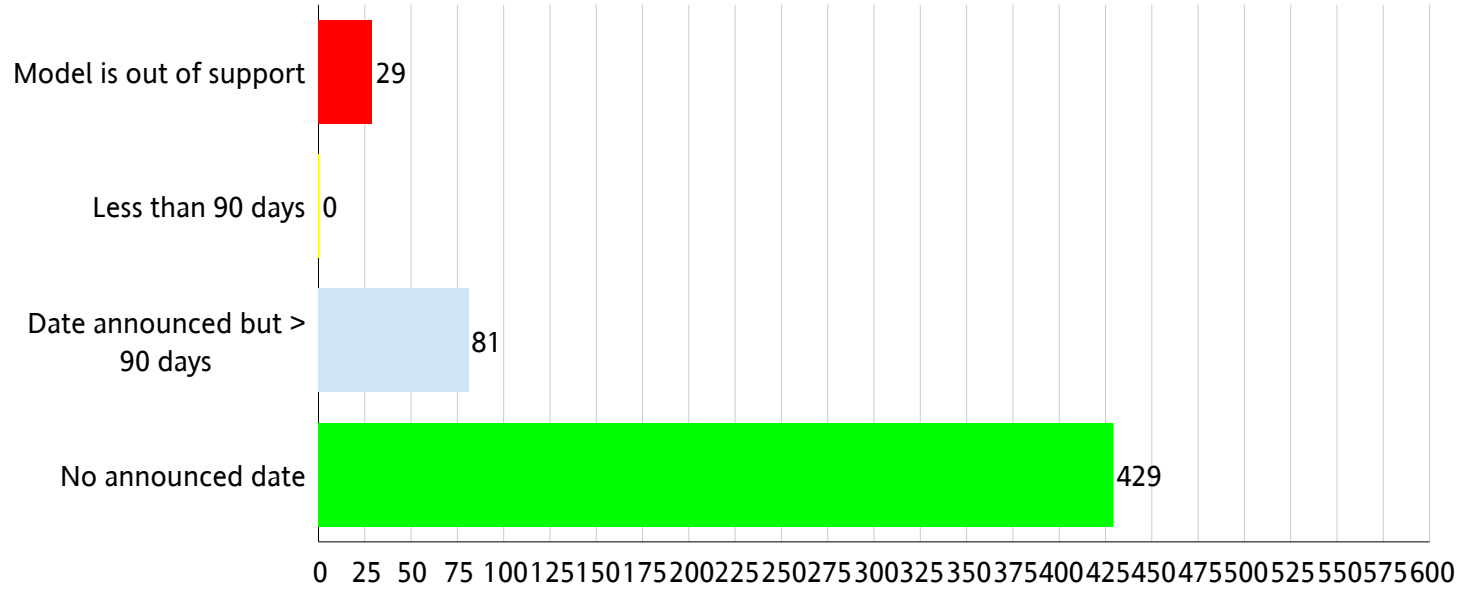
Please refer to the TSA Detail Report ("TSS Contract Detail" tab) for additional details behind these contracts. Contract data is only available for servers/ devices that are registered by their specific machine type and serial number.

No Warranty or Maintenance Identified means that no warranty or follow on TSS maintenance contract was found that matches a TSA identified machine/serial number.

The value should match the number of entries highlighted with red bars in the No TSS contract identified column on the Contract Summary tab of the spreadsheet. If it does not, it may signify that a software maintenance contract exists without hardware maintenance.



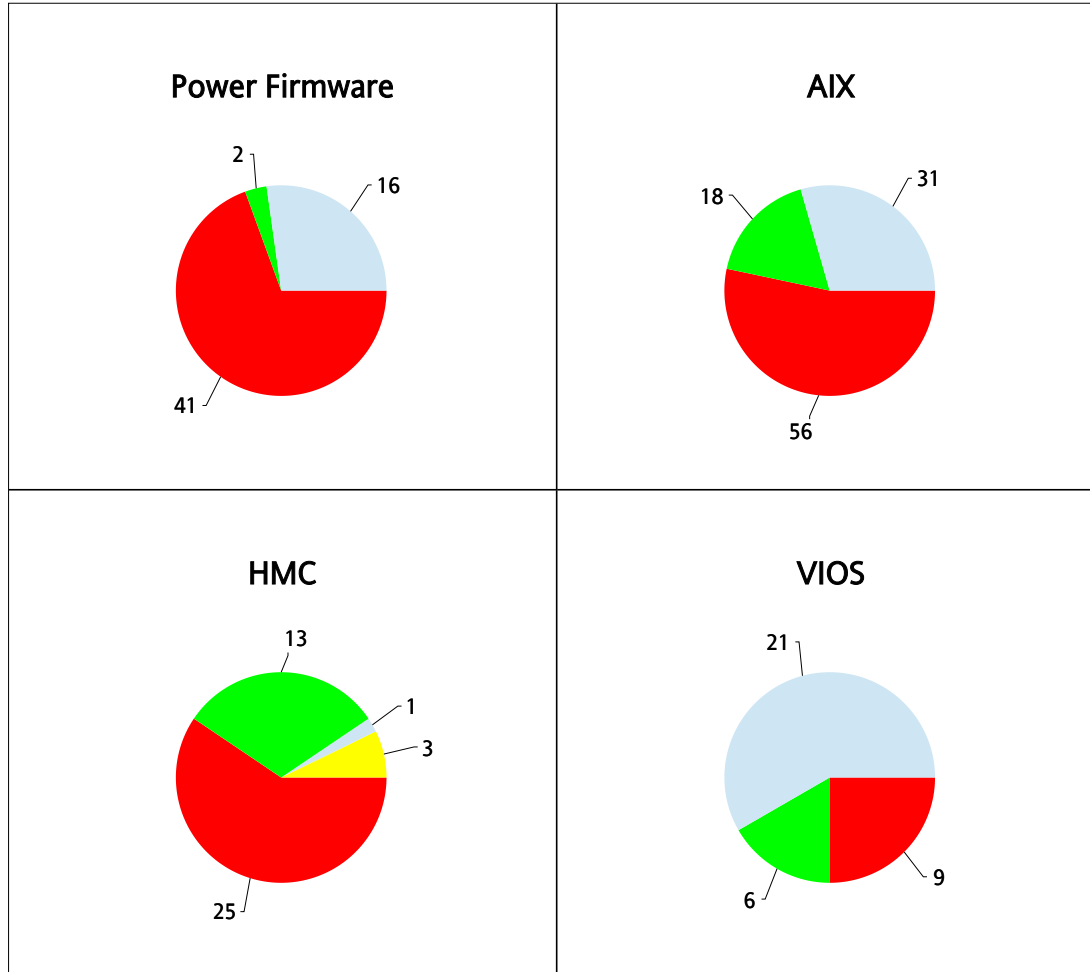
Hardware Lifecycle Status - Systems with Model End of Support Date Announced



Only TSA identified IBM and Lenovo machines are counted in above chart.
Please refer to the TSA Detail Report ("TSS Contract Detail" tab) for additional details



IBM Power Systems Recommendations



Section	Count
End of Service reached - Installed version is end-of-service. ("Update EOS date" may reflect extended support contracts.)	131
Nearing End of Service - Installed version has less than 6 months of service remaining.	3
Supported Level - Installed version is supported for at least 6 months, with a recommendation to move to an updated level.	69
Recommended Level - Installed version is supported for at least 6 months, and it is already at a recommended or later level.	39
Overall - Total	242

Please refer to the TSA Detail Report ("Power Firmware" and "AIX VIOS HMC" tabs) for the detailed recommendations available for these devices.



IBM Power Systems Software Recommendations



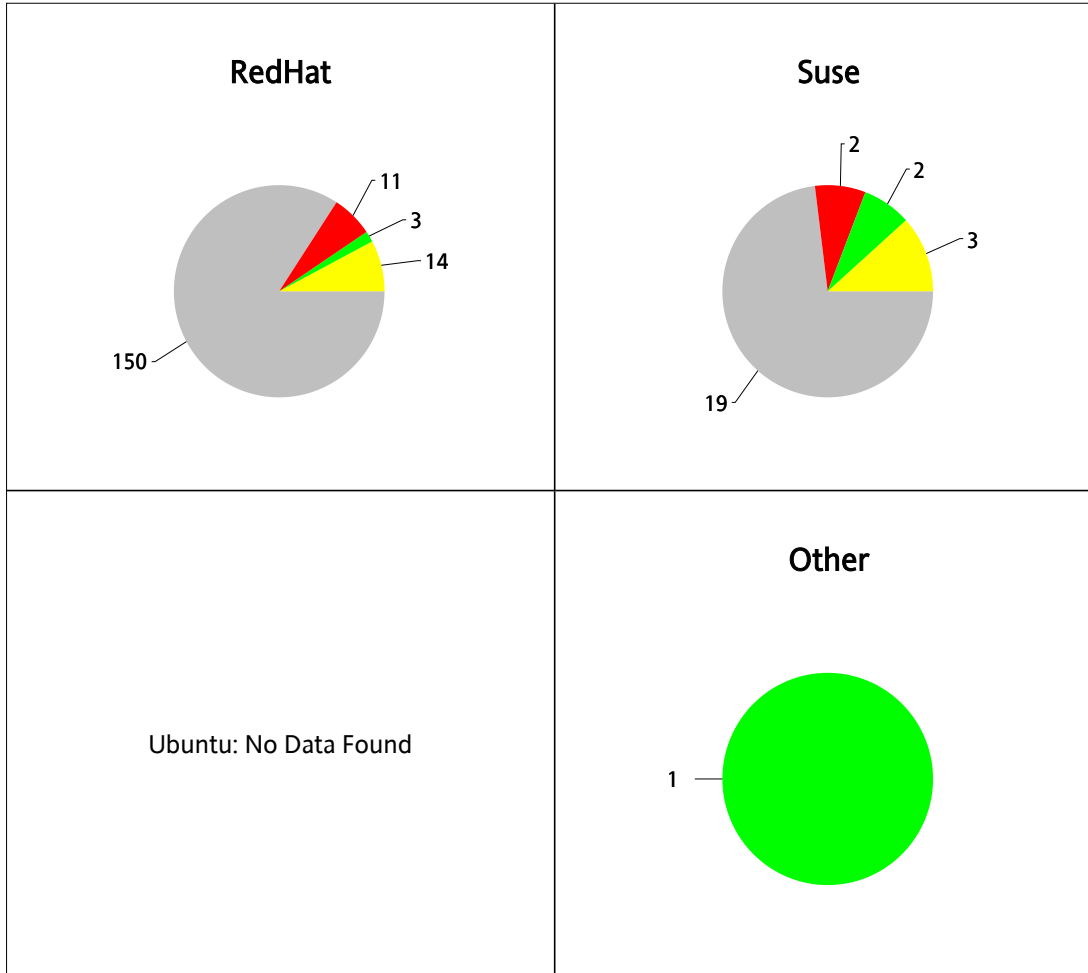
HACMP: No Data Found

Section	Count
End of Service reached - Installed version is end-of-service. ("Update EOS date" may reflect extended support contracts.)	3
Nearing End of Service - Installed version has less than 6 months of service remaining.	0
Supported Level - Installed version is supported for at least 6 months, with a recommendation to move to an updated level.	0
Recommended Level - Installed version is supported for at least 6 months, and it is already at a recommended or later level.	1
Overall - Total	4

Please refer to the TSA Detail Report ("GPFS HACMP POWERSC" tab) for the detailed recommendations available for these devices.



Linux Recommendations

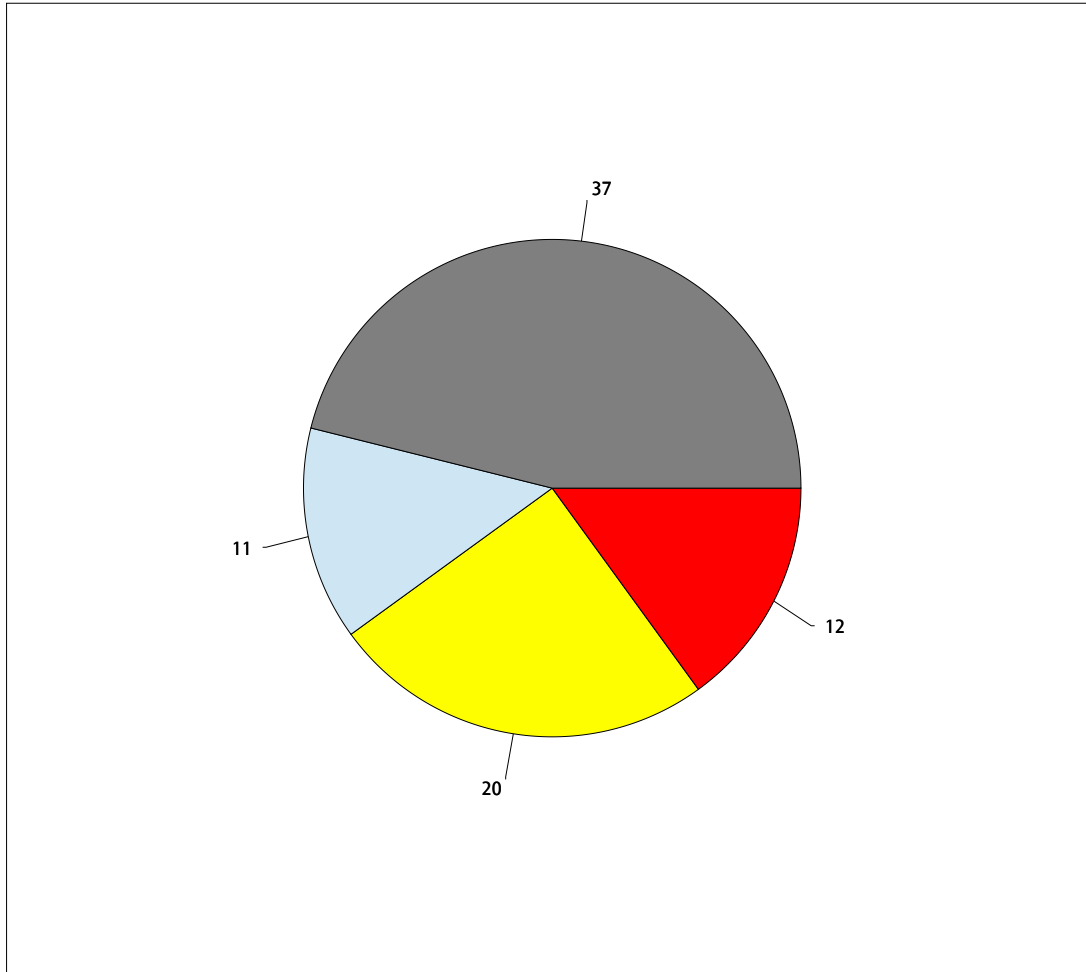


Section	Count
End of Service reached - no future fixpacks; installed level is end of service with no upgrade recommendation. ("Update EOS date" may reflect extended support contracts.)	13
Update/Upgrade available: installed level has less than 6 months remaining of service and there is a recommended upgrade available.	17
Latest Level: Installed level is at the latest level and is supported for at least 6 more months	8
Complete Installed Version Release Level Unknown	224
Overall - Total	262

Please refer to the TSA Detail Report ("Linux Recommendations" tab) for the detailed recommendations available for these devices.



Storage Device Recommendations

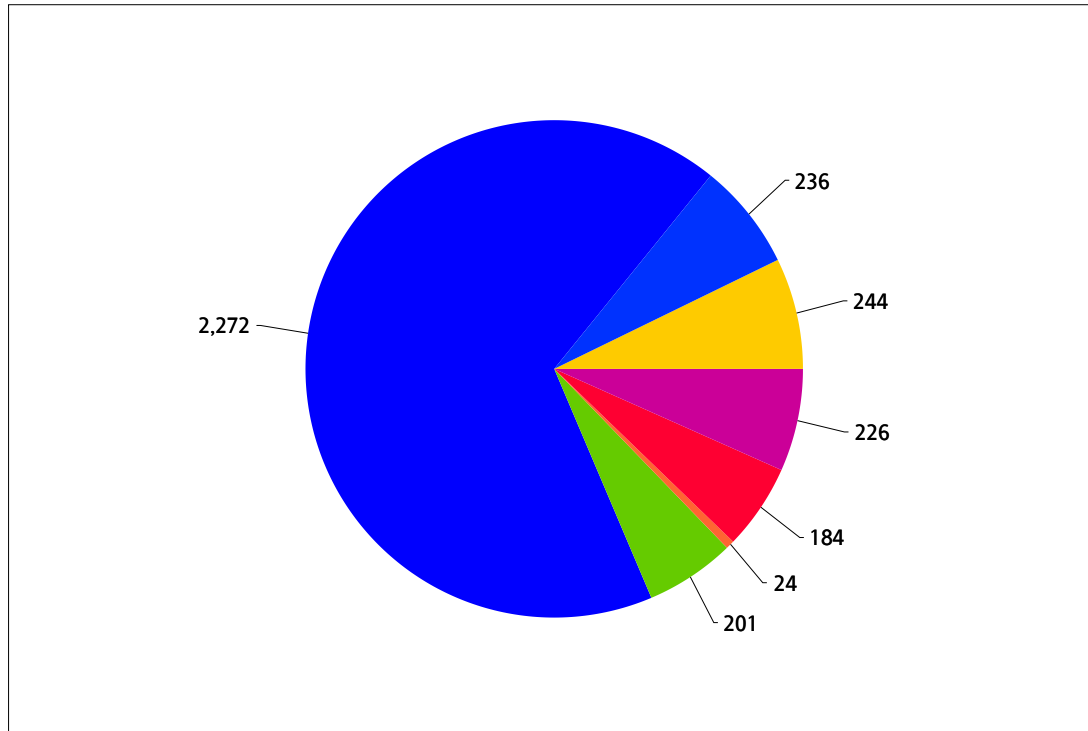


Section	Count
Code below supported level and/or product end of life	12
Between minimum and recommended	20
At or above recommended	11
Unrecognized	37
Overall - Total	80

Please refer to the TSA Detail Report ("Storage Device Recommendation" tab) for the detailed recommendations available for these devices.



Physical and Virtual Devices by Manufacturer



Please refer to the TSA Detail Report ("Identified Devices" and "Detected Devices" tabs) for additional details behind these physical and virtual devices. This chart summarizes the devices in those tabs at the distinct machine level. Devices that represent less than 5% of the total have been aggregated into the Other category in the pie chart. The "Detected" device count refers to ip address endpoints that TSA has detected as active on the network, even without valid system credentials. When correct credentials are configured in TSA, it will discover a more complete system inventory (including manufacturer, machine type, etc), and the device entry is moved from the Detected tab to the Identified tab.

Manufacturer	# of Machines
IBM	2,272
Lenovo	236
Cisco	226
HP	201
Dell	184
Juniper	79
FUJITSU	53
Seagate	19
Supermicro	15
Brocade Communication Systems Inc.	8
Nutanix	8
Oracle/Sun	8
EMC	7
DELL	6
Microsoft	6
Fortinet	5
BLADE Network Technologies	4
Intel	4
NetApp	4
Check Point	3
F5	3
VMware, Inc.	3
Nortel	2
VN Dell	2
Citrix Inc.	1



Physical and Virtual Devices by Manufacturer



Manufacturer	# of Machines
HITACHI	1
Huawei Technologies Co., Ltd.	1
INTEL	1
Micron_M500DC_MTFDDAK120MBB	1
Micron_M550_MTFDDAK128MAY	1
NEC	1
unknown	1
Xen	1
Detected	24
Total Devices Identified	3391

Please refer to the TSA Detail Report ("Identified Devices" and "Detected Devices" tabs) for additional details behind these physical and virtual devices. This chart summarizes the devices in those tabs at the distinct machine level. Devices that represent less than 5% of the total have been aggregated into the Other category in the pie chart. The "Detected" device count refers to ip address endpoints that TSA has detected as active on the network, even without valid system credentials. When correct credentials are configured in TSA, it will discover a more complete system inventory (including manufacturer, machine type, etc), and the device entry is moved from the Detected tab to the Identified tab.



Detected by Possible Operating System

Possible Operating System	Version	# Detected
		1
AudioCodes embedded		1
Linux	XenServer release 7.3.0 (xenenterprise)	1
Linux	XenServer release 7.6.0 (xenenterprise)	1
No OS Identified		12
Wind River VxWorks		8
Overall - Total		24

This tab shows those machines in which no valid credentials were provided and no mfg, model or serial number can be discovered. For other tabs to be populated additional credentials will need to be provided. TSA tries to identify what possible operating system is running on the endpoint based on which ports are open. For more details on Possible Operating System, please reference the Detected tab in the TSA Detail Report



Identified by Operating System

Operating System	Version	# Identified	Operating System	Version	# Identified	Operating System	Version	# Identified
AIX	5300-10-00	3	AIX	5300-08-01	1	ASA	9.6(4)	1
AIX	5300-12-09	3	AIX	5300-08-10	2	ASA	9.6(4)14	1
AIX	6100-03-10	3	AIX	5300-11-08	1	ASA	9.6(4)8	2
AIX	6100-09-03	3	AIX	5300-12-00	1	Bundle - controller_a	TS251P006-02	1
AIX	6100-09-05	18	AIX	5300-12-08	2	Bundle - controller_b	TS251P006-02	1
AIX	6100-09-08	14	AIX	6100-00-03	1	CentOS 4/5 or later (64-bit)		4
AIX	6100-09-11	6	AIX	6100-04-05	1	CentOS 4/5/6 (64-bit)		8
AIX	7100-03-02	3	AIX	6100-06-05	1	CentOS 4/5/6/7 (64-bit)		5
AIX	7100-03-03	3	AIX	6100-07-01	1	Cisco Internetwork Operating System Software	12.0(5)XU	1
AIX	7100-03-04	11	AIX	6100-07-04	1	Cisco Internetwork Operating System Software	12.1(22)EA10	1
AIX	7100-03-05	22	AIX	6100-08-01	2	Cisco Internetwork Operating System Software	12.1(22)EA12	1
AIX	7100-03-06	3	AIX	6100-08-03	2	Cisco Internetwork Operating System Software	12.2(20)EW	1
AIX	7100-03-07	3	AIX	6100-09-06	2	Cisco Internetwork Operating System Software	12.2(20)SE	1
AIX	7100-04-01	5	AIX	6100-09-07	1	Cisco Internetwork Operating System Software	12.2(20)SE3	1
AIX	7100-04-02	14	AIX	6100-09-10	1	Cisco IOS	03.03.00SE	1
AIX	7100-04-03	4	AIX	6100-09-12	1	Cisco IOS	03.08.06.E	1
AIX	7100-04-04	39	AIX	7100-00-08	1	Cisco IOS	12.0(5)WC3b	1
AIX	7100-04-05	15	AIX	7100-00-10	1	Cisco IOS	12.1(13)EA1a	1
AIX	7100-04-06	4	AIX	7100-02-01	1	Cisco IOS	12.1(14)EA1a	1
AIX	7100-05-01	13	AIX	7100-02-02	1	Cisco IOS	12.1(19)EA1c	1
AIX	7100-05-02	60	AIX	7200-00-04	1	Cisco IOS	12.1(22)EA1b	1
AIX	7100-05-03	3	AIX	7200-01-02	3	Cisco IOS	12.1(22)EA2	1
AIX	7200-01-04	4	AIX	7200-02-01	1	Cisco IOS	12.1(22)EA4	1
AIX	7200-02-02	17	AIX	7200-03-00	1	Cisco IOS	12.1(22)EA4a	1
AIX	7200-03-02	44	AIX		3	Cisco IOS	12.1(22)EA9	1
						Cisco IOS	12.2(18)SXD7	1
						Cisco IOS	12.2(25)SEE2	1
						Cisco IOS	12.2(35)SE5	1
						Cisco IOS	12.2(40)EX1	1



Identified by Operating System

Operating System	Version	# Identified
Cisco IOS	12.2(50)SE5	2
Cisco IOS	12.2(55)SE1	1
Cisco IOS	12.2(55)SE10	2
Cisco IOS	12.2(55)SE12	9
Cisco IOS	12.2(55)SE5	2
Cisco IOS	12.2(58)SE2	2
Cisco IOS	12.2(7)	1
Cisco IOS	12.3(11)T3	1
Cisco IOS	12.3(17c)	1
Cisco IOS	12.3(5b)	1
Cisco IOS	12.3(8)T8	1
Cisco IOS	12.4(22)T1	1
Cisco IOS	12.4(24)T3	1
Cisco IOS	12.4(25f)	1
Cisco IOS	15.0(1)M6	1
Cisco IOS	15.0(2)SE8	1
Cisco IOS	15.0(2)SG11	1
Cisco IOS	15.1(2)SY10	1
Cisco IOS	15.2(1)SY5	1
Cisco IOS	15.2(4)E6	2
Cisco IOS	15.4(3)M3	1
Cisco IOS	15.4(3)M6a	2
Cisco IOS	15.4(3)M9	1
Cisco IOS	15.5(3)M7	3
Cisco IOS	15.5(3)S6	1
Cisco IOS	15.5(3)S7b	1
Cisco IOS	15.6(3)M	1
Cisco IOS	15.6(3)M4	1
Cisco IOS	15.6(3)M5	1



Identified by Operating System

Operating System	Version	# Identified
Cisco IOS	15.7(3)M	1
Cisco IOS	15.7(3)M3	4
Cisco IOS	16.3.6	2
Cisco IOS	16.6.1	1
Cisco IOS	16.6.2	1
Cisco IOS	16.8.1a	1
Cisco IOS Software	12.2(25)SEB2	1
Cisco IOS Software	12.2(35)SE5	1
Cisco IOS Software	12.2(46)SE	2
Cisco IOS Software	12.2(50)SE3	3
Cisco IOS Software	12.2(50)SE5	1
Cisco IOS Software	12.2(53)SG8	1
Cisco IOS Software	12.2(55)SE	4
Cisco IOS Software	12.2(55)SE10	1
Cisco IOS Software	12.2(55)SE5	1
Cisco IOS Software	12.2(55)SE6	2
Cisco Nexus Operating System	6.2(11c)	5
Cisco NX-OS	6.2(14)	1
Cisco NX-OS	6.2(16)	1
Cisco NX-OS	7.0(3)I4(8b)	1
Cisco NX-OS	7.0(3)I7(2)	3
Cisco NX-OS	7.0(8)N1(1)	1
Cisco Storage Area Networking Operating System (SAN-OS) Software	3.3(5a)	1
Cisco Storage Area Networking Operating System (SAN-OS) Software	3.3(5b)	2
Data Domain OS	5.7.4.10-559104	1
Data Domain OS	5.7.5.6-580632	2
Debian GNU/Linux 4 (32-bit)		1
Diagnostics	9.54	2
Embedded Operating Systems	1.3.2	3



Identified by Operating System

Operating System	Version	# Identified
Fabric OS	v5.0.1d	1
Fabric OS	v6.3.1a	1
Fabric OS	v6.4.2b4	1
Fabric OS	v7.2.1a	1
Fabric OS	v7.2.1d	3
Fabric OS	v7.4.0b	1
Fabric OS	v7.4.1c	1
Fabric OS	v7.4.1d	1
Fabric OS	v7.4.1e	1
Fabric OS	v7.4.1f	1
Fabric OS	v7.4.2c	2
Fabric OS	v8.0.2b	2
Fabric OS	v8.0.2c	1
Fabric OS	v8.2.0b	1
FortiOS	5.6.2	5
FPGA Revision - PCI_Card	77.1.22.0	2
FreeBSD (64-bit)		17
FSM	1.3.2	1
Gaia	R77.30	3
HP-UX	B.11.23	2
IMM	1.33	2
IMM	1.47	1
IMM Firmware	1.47	2
IMM2	4.31	2
IMM2	4.97	3
JUNOS		1
JUNOS	10.2R3.10	1
JUNOS	10.4R8.5	1
JUNOS	11.4R1.6	10



Identified by Operating System

Operating System	Version	# Identified
JUNOS	12.1R5.5	1
JUNOS	12.1R7.9	1
JUNOS	12.1X46-D40.2	1
JUNOS	12.1X46-D65.4	1
JUNOS	12.3R12-S10	3
JUNOS	12.3R12.4	1
JUNOS	12.3R9.4	2
JUNOS	12.3X48-D50.6	1
JUNOS	12.3X48-D75.4	1
JUNOS	13.2R5.10	1
JUNOS	14.1X53-D30.3	1
JUNOS	14.1X53-D42.3	1
JUNOS	14.1X53-D47.6	1
JUNOS	15.1R7-S3.1	5
JUNOS	15.1X49-D150.2	2
Linux	3.0.101-63-default	1
Linux	CentOS Linux release 7.4.1708 (Core)	1
Linux	CentOS Linux release 7.5.1804 (Core)	3
Linux	EMC VNX Control Station Linux release 3.0 (NAS 7.1.80)	1
Linux	Red Hat Enterprise Linux Server release 5.11 (Tikanga)	1
Linux	Red Hat Enterprise Linux Server release 5.3 (Tikanga)	2
Linux	Red Hat Enterprise Linux Server release 5.4 (Tikanga)	1
Linux	Red Hat Enterprise Linux Server release 5.8 (Tikanga)	1
Linux	Red Hat Enterprise Linux Server release 6.3 (Santiago)	3
Linux	Red Hat Enterprise Linux Server release 6.4 (Santiago)	4
Linux	Red Hat Enterprise Linux Server release 6.8 (Santiago)	1
Linux	Red Hat Enterprise Linux Server release 6.9 (Santiago)	1
Linux	Red Hat Enterprise Linux Server release 7.1 (Maipo)	1
Linux	Red Hat Enterprise Linux Server release 7.3 (Maipo)	2



Identified by Operating System

Operating System	Version	# Identified
Linux	Red Hat Enterprise Linux Server release 7.5 (Maipo)	1
Linux	SUSE Linux Enterprise Server 10 (i586) PATCHLEVEL = 1	1
Linux	SUSE Linux Enterprise Server 10 (i586) PATCHLEVEL = 2	1
Linux	SUSE Linux Enterprise Server 11 SP4	4
Linux	SUSE Linux Enterprise Server 12 SP1	2
Linux	SUSE Linux Enterprise Server 12 SP3	1
Linux	XenServer release 5.6.100-46766p (xenenterprise)	1
Linux	XenServer release 6.2.0-70446c (xenenterprise)	2
Linux	XenServer release 6.5.0-90233c (xenenterprise)	1
Microsoft Windows 10 (64-bit)		3
Microsoft Windows 7 (64-bit)		40
Microsoft Windows 8 (64-bit)		2
Microsoft Windows Server 2003 (32-bit)		6
Microsoft Windows Server 2003 Standard (32-bit)		14
Microsoft Windows Server 2003 Standard (64-bit)		1
Microsoft Windows Server 2003, Standard Edition (32-bit)		1
Microsoft Windows Server 2008 (32-bit)		14
Microsoft Windows Server 2008 (64-bit)		12
Microsoft Windows Server 2008 R2 (64-bit)		241
Microsoft Windows Server 2012 (64-bit)		247
Microsoft Windows Server 2016 (64-bit)		93
MLNX-OS	3.4.3050	2
NetApp Release	8.1.4P1 7-Mode	1
ONTAP	7.3.7	2
ONTAP	8.1.4P1 7-Mode	1
Oracle Linux 4/5 or later (64-bit)		17
Oracle Solaris 10 (64-bit)		1
OS/400	V5R4M5	13
OS/400	V6R1M0	7



Identified by Operating System

Operating System	Version	# Identified
OS/400	V6R1M1	13
OS/400	V7R1M0	20
OS/400	V7R2M0	21
OS/400	V7R3M4	5
Other (32-bit)		1
Other (64-bit)		2
Other 2.6.x Linux (32-bit)		1
Other 2.6.x Linux (64-bit)		5
Other 3.x or later Linux (64-bit)		5
Other Linux (32-bit)		3
Other Linux (64-bit)		4
Red Hat	6.5	3
Red Hat	6.6	2
Red Hat	6.8	1
Red Hat	6.9	1
Red Hat	7.2	1
Red Hat	7.3	2
Red Hat	7.4	1
Red Hat	7.6	2
Red Hat Enterprise Linux 4 (32-bit)	4.x	3
Red Hat Enterprise Linux 5 (32-bit)	5.x	2
Red Hat Enterprise Linux 5 (64-bit)	5.x	6
Red Hat Enterprise Linux 6 (64-bit)	6.x	118
Red Hat Enterprise Linux 7 (64-bit)	7.x	24
Red Hat Enterprise Linux Server release 5.11 (Tikanga)	2.6.18-398.el5	18
Red Hat Enterprise Linux Server release 5.11 (Tikanga)	2.6.18-423.el5	1
Red Hat Enterprise Linux Server release 5.6 (Tikanga)	2.6.18-238.40.1.el5	2
RHEL 6.1 x86_64		1
RHEL 6.6 x86_64		1



Identified by Operating System

Operating System	Version	# Identified
RSA		1
SunOS	5.10 138888-07	1
SunOS	5.10 144488-12	1
SunOS	5.11 11.3	2
SuSE	11	4
SUSE Linux Enterprise 11 (64-bit)	11.x	46
SUSE Linux Enterprise 12 (64-bit)	12.x	24
SUSE Linux Enterprise 8/9 (64-bit)	8/9.x	1
TMOS	13.1.0.3	3
Ubuntu Linux (64-bit)		21
VIOS	2.2.1.3	2
VIOS	2.2.2.2	2
VIOS	2.2.3.1	2
VIOS	2.2.3.4	6
VIOS	2.2.3.50	4
VIOS	2.2.4.10	2
VIOS	2.2.4.21	2
VIOS	2.2.4.22	4
VIOS	2.2.5.10	16
VIOS	2.2.5.20	10
VIOS	2.2.5.30	3
VIOS	2.2.6.10	5
VIOS	2.2.6.20	2
VIOS	2.2.6.21	11
VIOS	2.2.6.23	1
VIOS	2.2.6.31	10
VIOS	2.2.6.32	3
VIOS	3.1.0.10	2
VIOS	VIOS 2.2.6.31	4



Identified by Operating System

Operating System	Version	# Identified
Vmnix	VMware ESX 4.1.0 build-800380	1
VMware ESX	4.1.0	2
VMware ESXi	VMware ESXi 4.1.0 build-502767	1
VMware ESXi	VMware ESXi 5.0.0 build-469512	2
VMware ESXi	VMware ESXi 5.0.0 build-623860	3
VMware ESXi	VMware ESXi 5.1.0 build-1065491	1
VMware ESXi	VMware ESXi 5.1.0 build-1483097	4
VMware ESXi	VMware ESXi 5.1.0 build-3070626	2
VMware ESXi	VMware ESXi 5.1.0 build-799733	2
VMware ESXi	VMware ESXi 5.5.0 build-2068190	4
VMware ESXi	VMware ESXi 5.5.0 build-2143827	1
VMware ESXi	VMware ESXi 5.5.0 build-2403361	3
VMware ESXi	VMware ESXi 5.5.0 build-2718055	1
VMware ESXi	VMware ESXi 5.5.0 build-3116895	2
VMware ESXi	VMware ESXi 5.5.0 build-3248547	6
VMware ESXi	VMware ESXi 5.5.0 build-3568722	2
VMware ESXi	VMware ESXi 5.5.0 build-4179633	6
VMware ESXi	VMware ESXi 5.5.0 build-4345813	6
VMware ESXi	VMware ESXi 5.5.0 build-5230635	2
VMware ESXi	VMware ESXi 5.5.0 build-6480324	9
VMware ESXi	VMware ESXi 5.5.0 build-7618464	13
VMware ESXi	VMware ESXi 5.5.0 build-7967571	6
VMware ESXi	VMware ESXi 5.5.0 build-9919047	2
VMware ESXi	VMware ESXi 6.0.0 build-2494585	2
VMware ESXi	VMware ESXi 6.0.0 build-3380124	1
VMware ESXi	VMware ESXi 6.0.0 build-3620759	8
VMware ESXi	VMware ESXi 6.0.0 build-4192238	1
VMware ESXi	VMware ESXi 6.0.0 build-5572656	15
VMware ESXi	VMware ESXi 6.0.0 build-6765062	1



Identified by Operating System

Operating System	Version	# Identified
VMware ESXi	VMware ESXi 6.0.0 build-6921384	57
VMware ESXi	VMware ESXi 6.0.0 build-7504637	1
VMware ESXi	VMware ESXi 6.0.0 build-7967664	19
VMware ESXi	VMware ESXi 6.0.0 build-8934903	1
VMware ESXi	VMware ESXi 6.5.0 build-10884925	3
VMware ESXi	VMware ESXi 6.5.0 build-4887370	2
VMware ESXi	VMware ESXi 6.5.0 build-5969303	3
VMware ESXi	VMware ESXi 6.5.0 build-7273056	1
VMware ESXi	VMware ESXi 6.5.0 build-7388607	22
VMware ESXi	VMware ESXi 6.5.0 build-8294253	1
VMware ESXi 6.5		3
Windows	10.0.14393	8
Windows	10.0.16299	4
Windows	10.0.17134	1
Windows	6.2.9200	2
Windows	6.3.9600	16
Windows 7	6.1 (Build 7601 Multiprocessor Free)	2
Windows 7	6.1.7601	1
Windows Server 2003	5.2 (Build 3790 Multiprocessor Free)	1
Windows Server 2003	5.2.3790	17
Windows Server 2003 64-Bit	5.2.3790	8
Windows Server 2008	6.0.6002	1
Windows Server 2008	6.1.7600	1
Windows Server 2008	6.1.7601	24
Windows Server 2008 64-Bit		3
Windows Server 2008 R2	6.1 (Build 7601 Multiprocessor Free)	1
Windows Server 2008 R2	6.1.7601	23
Windows Server 2012	6.2.9200	8
Windows Server 2012 R2	6.3 (Build 9600 Multiprocessor Free)	1



Identified by Operating System

Operating System	Version	# Identified
Windows Server 2012 R2	6.3.9600	33
Windows XP	5.1.2600	1
Overall - Total	2,182	

For more details on Operating Systems, please reference the Identified tab in the TSA Detailed Report.