Troubleshoot Secure Web Appliance Latency

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Introduction

This document describes the troubleshooting steps to tackle High Latency, High Disk, and High CPU in Cisco Secure Web Appliance (SWA).

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco SWA administration
- Proxy deployment methods (Explicit and Transparent)
- SWA Command Line Interface (CLI) commands

Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

When contacting Cisco Technical Support, you are asked to provide details on the SWA outbound and inbound network activity, which can be monitored by running a packet capture to collect traffic for debugging or verification purposes.

Frequent Causes of High Latency in SWA

In general, there are three main categories for the high latency in SWA:

- 1. Inadequate SWA Sizing or Overloaded Resources
- 2. Complex Configurations
- 3. Network-Related Latency Issues

One of the most common causes of high latency in SWA is inadequate sizing of the solution. Proper sizing is critical to ensure that the SWA system has sufficient resources to handle current and expected workloads. If the system is undersized, it can struggle to process requests efficiently, leading to delays in operations and reduced performance. Factors such as the number of users, volume of decryption, and specific scanning demands must be carefully evaluated during deployment to avoid resource constraints. Failure to align the SWA capacity with organizational needs can result in persistent latency and degraded user experience.

Complex configurations can degrade performance and cause latency on the SWA, especially under high load, as each request must be processed through numerous conditions.

Network-related latency can stem from the SWA itself, third-party services like Active Directory, DLP, DNS, or from network delays between the client, SWA, and upstream servers.

Analyzing the requests sent to the SWA, including identifying the top users and the most accessed URLs, can help uncover potential misbehavior and pinpoint the root causes of latency. This information is invaluable for diagnosing performance issues, managing bandwidth consumption, and ensuring appropriate usage of the system.

SWA Latency Troubleshooting Tools

System Status

Use these steps to check the current resource consumption in SWA:

Step 1. Access the SWA Graphical User Interface (GUI).

Step 2. Navigate to **Reporting > System Information > System Status**.

Step 3. Check these critical metrics to assess system performance:

- CPU Usage (%): Indicates the current CPU load
- RAM Usage (%): Reflects the memory utilization
- Reporting/Logging Usage (%): Shows the percentage of disk space being used for reporting and logging
- System Uptime: Displays the total time the system has been running without a restart

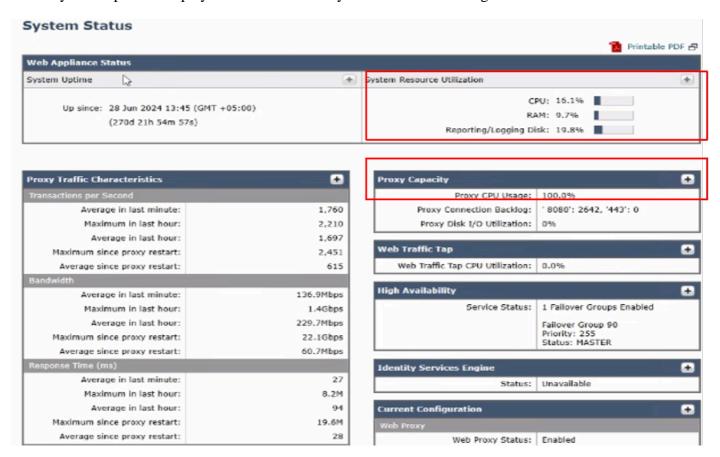


Image- System Status

This page provides an overview of the current status of RAM, CPU, and disk usage. To view resource usage over time, from **SWA GUI**, navigate to **Reporting** and choose **System Capacity**.

System Capacity

The System Capacity page in the SWA provides a comprehensive view of resource utilization and performance metrics over a specified time range. This page offers detailed graphs to help monitor and analyze system behavior, ensuring optimal performance and identifying potential bottlenecks.

Available Graphs and Metrics in System Capacity page are:

- 1. Overall CPU Usage: Displays the total CPU usage, giving a high-level overview of system performance.
- 2. CPU Usage by Function: Breaks down CPU usage based on specific functions, including:
- Web Proxy
- Logging

- Reporting
- McAfee
- Sophos
- Webroot
- Acceptable Use and Reputation
- 3. Response Time/Latency (milliseconds): Tracks response times to identify any delays in processing requests.
- 4. Transactions Per Second: Shows the number of transactions being handled by the SWA per second.
- 5. Connections Out: Monitors the number of outbound connections being established.
- 6. Bandwidth Out (Bytes): Measures the amount of outbound bandwidth being utilized.
- 7. Proxy Buffer Memory (%): Displays the percentage of memory used by the proxy process.

Check the metrics for any signs of high resource usage in this dashboard.

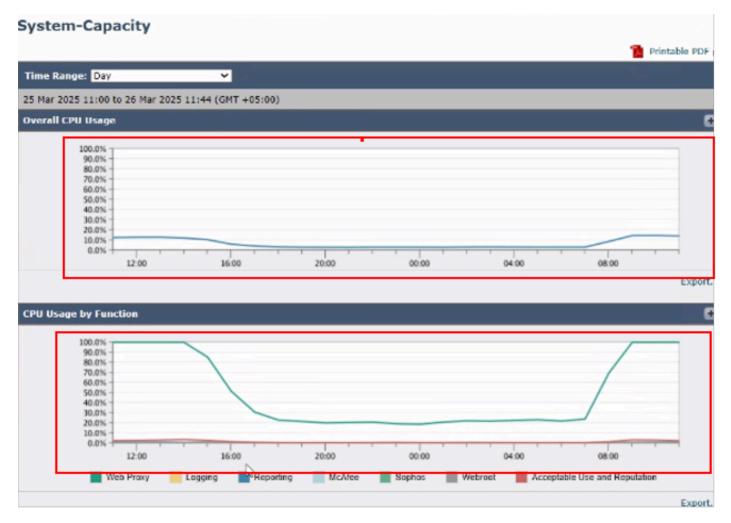


Image- System Capacity

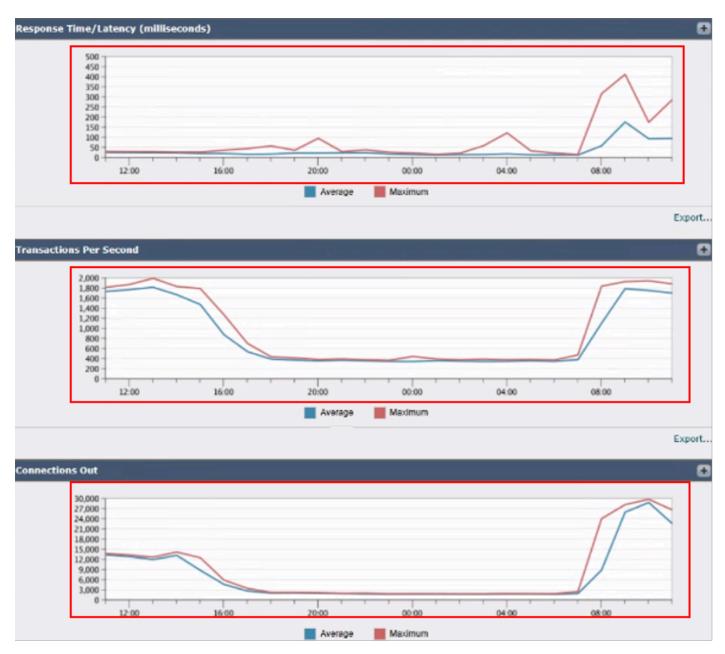


Image- SWA Transactions Per Second and Connections Out



Image- SWA Memory Usage

Analyze Top Destinations

To analyze top destinations, navigate to the **SWA GUI**, navigate to **Reporting**, and select **Websites**. Review the list of top HTTP/HTTPS websites and identify high-traffic or frequently accessed domains.

Based on your findings, consider bypassing or exempting generic URLs, such as Microsoft Updates, Adobe, Office365, and online meeting platforms. This approach helps reduce traffic on the SWA, leading to lower latency and a reduced proxy processing load.

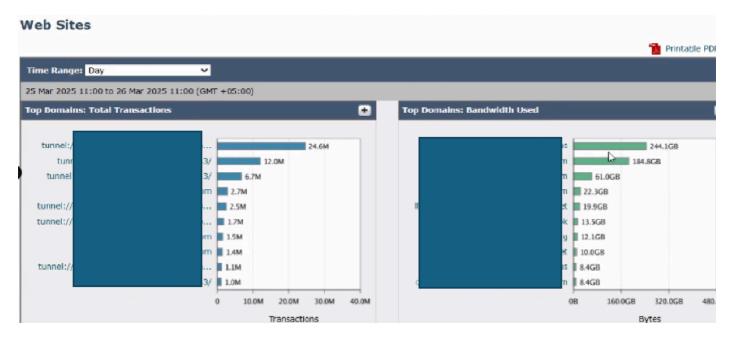


Image- SWA Top Websites Dashboard

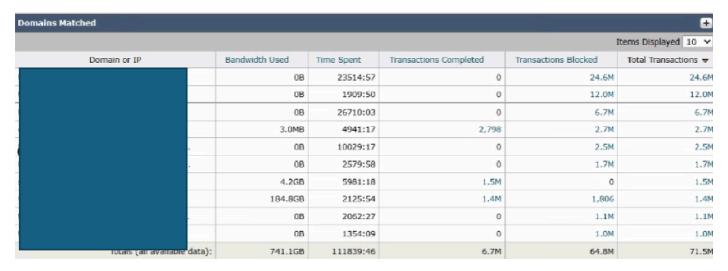


Image- SWA Top Domains Dashboard

Analyze Top Users

To identify potential sources of excessive traffic, navigate to the SWA GUI from Reporting choose Users.

Review the list to determine which users are generating the highest number of transactions to the SWA. Additionally, check for user machines that are generating the highest number of transactions to the SWA and consuming the maximum bandwidth.

This analysis can help pinpoint users or devices responsible for significant traffic loads, enabling targeted actions to reduce overall system strain.

Users Printable PDF Time Range: Custom Range... 24 Dec 2024 00:00 to 21 Mar 2025 15:03 (GMT +05:30) **Top Users: Transactions Blocked** Top Users: Bandwidth Used \blacksquare 765.4MB 245.3MB 40.3MB 27.2MB 13.3MB 7.943 3,754 7.2MB 3.1MB 1.0MB 60.8KB 4,000 8,000 12.04 320.0MB 640.0MB 960.0MB Transactions Bytes Chart Options... | Export... Chart Options... | Export... ⊞ Users User ID or Client IP Bandwidth Used Time Spent Transactions Completed Transactions Blocked 🕶 Total Transactions 13.9k 245.3MB 06:56 5.916 7,943 7.2MB 00:22 223 3,754 3,977 02:25 13.3MB 333 340

Image-SWA Top Users Dashboard

Totals (all available data):

SHD Logs

By reviewing the SHD_log, you can analyze some of the performance metrics such as number of sessions from users to SWA (CliConn), number of sessions from SWA to the Internet (SrvConn), the average requests per seconds (Reqs) and so on.

For more information about the SHD Log, refer to link <u>Troubleshoot Secure Web Appliance Performance</u> with <u>SHD Logs</u>,

Some key Parameters to review in the SHD logs are:

• ClientConns: Number of active client connections

60.8KB

1.0MB

27.2MB

765.4MB

23.3MB

3.1MB

40.3MB

1.1GB

00:13

00:10

00:40

02:33

00:14

00:07

02:18

16:03

Find User ID or Client IP

50

117

187

1,589

3,192

104

442

12.2k

3

1

0

0

0

0

11.7k

53

118

187

1,589

3,192

104

442

23.9k

Columns... | Export...

- ServerConns: Number of active server connections
- ProxLd: Average Proxy process load

- CPULD: Average overall CPU load
- RAMUTIL: RAM utilization
- Latency: Average service time in one minute
- DiskUtil: Disk usage and I/O performance

As in this example, having around 1,600 Requests per Seconds, leads to high proxy process load.

```
Wed Mar 26 11:09:30 2025 Info: Status: CPULd 16.3 DskUtil 19.9 RAMUtil 9.3 Reqs 1661 Band 152966 Latenc Wed Mar 26 11:10:31 2025 Info: Status: CPULd 13.6 DskUtil 19.9 RAMUtil 9.5 Reqs 1699 Band 107048 Latenc Wed Mar 26 11:11:31 2025 Info: Status: CPULd 15.0 DskUtil 19.9 RAMUtil 9.5 Reqs 1669 Band 178803 Latenc Wed Mar 26 11:12:31 2025 Info: Status: CPULd 17.6 DskUtil 19.9 RAMUtil 9.2 Reqs 1785 Band 143721 Latenc
```

Using Access Logs to Troubleshoot Latency Issues

When latency issues occur with traffic being proxied through an SWA, Access Logs can serve as a valuable tool for identifying the probable root cause. To enhance troubleshooting efforts, you can either modify the existing Access Log settings or create a new Access Log. By including Performance Parameters in the Custom Field, you can gain deeper insights into factors contributing to latency, enabling more effective analysis and resolution.

For more information about the Performance Parameters and the configuration steps, refer to link: <u>Configure Performance Parameter in Access Logs</u>

Here is the detailed guide to collect logs in the SWA: Access Secure Web Appliance Logs

Latency sources can be analyzed by examining key parameters that help determine whether delays occur between the client and the SWA, inside SWA internal processes or between the SWA and the web server. Important indicators to consider include network-based services such as DNS resolution, authentication time, and server or client response times. Additionally, delays caused by scanning engines like AMP, Sophos, and AVC must be evaluated to identify their impact on overall latency.

```
1750344193.093 272 10.10.20.30 TCP_MISS_SSL/200 39 CONNECT tunnel://cisco.com:443/ "cisco\user@cisco.com" DIRECT/www.cisco.com-DECRYPT_WEBCAT_7-DefaultGroup-Authentication_Profile-DefaultGroup-NONE-NONE-DefaultGroup-NONE
    "cisco\user@cisco.com" Direction_Profile-DefaultGroup-NONE-NONE-DefaultGroup-NONE-NONE-DefaultGroup-NONE

    NONE
    "C_Cis",6.3,1,"-",-,-,-,"-",-,"-",-,"-",-,"-",-,"-",-,"-","-",-," IW_Com",-,"-"," Computer","-"," Unknown"," Unknown","-","-",0.06,0,-,"-","-",-,"-",-,"-",-,"-",-,-,"-",-,-,-,- [Request Details: ID = 169121930, User Agent = "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/137.0.0.0 Safari/537.36", AD Group Memberships = (NTLMSSP)

    "Cisco\Users" ] [ Tx Wait Times (in ms): 1st byte to server = 3 Request Header = 0, Request to Server = 0, 1st byte to client = 3

    Response Header = 0, Client Body = 9 ] [ Rx Wait Times (in ms): 1st request byte = 0, Request Header = 0, Client Body = 0, 1st response byte = 0, Response header = 0 Server response = 13, Disk Cache = 0; Auth response = 0, Auth total = 3; DNS response = 0, DNS total = 0

    WBRS response = 0, WBRS total = 0, AVC response = 0, AVC total = 0, DCA response = 0, DCA total = 0, McAfee response = 0 McAfee total = 0, Sophos response = 0, Sophos total = 0. Webroot response = 0. Webroot total = 0. Anti-Spyware response=0. Anti-Spyware total = 0; AMP response = 0, AMP total = 0; Latency = 143; '19/Jun/2025:14:43:13 +0000" ] [Client Port = 57785, Server IP = 10.20.30.40, Server Port = 443]
```

Image - Performance Parameters in the AccessLog

High Authentication Time

If the authentication response time is high, this information is required for TAC to troubleshoot the authentication latency better and faster:

- Current SWA configuration
- Authentication logs in debug or trace mode
- · Packet captures from
 - Client machine.
 - SWA (With filter to capture the Client traffic and the SWA traffic to all active directories configured in the realm settings.)
- Make sure Accesslogs has both custom field %m and %g to identify the authentication mechanism and groups
- HAR file from the Client while reproducing the issue
- The output of **testauthconfig** command from the CLI

This example shows the high latency time related to Authentication:

Image - Sample of High Authentication Latency

High DNS Time

If the DNS response time is high, this information is required for TAC to troubleshoot DNS latency issues:

- Current SWA configuration
- System logs in trace mode
- DNS servers IP address
- Packet captures from
 - Client machine

- SWA (Filtering with DNS servers IP address.)
- Make sure your Accesslogs have both %:<d and %:>d in the custom field
- HAR file from the Client while reproducing the issue

To read more about the DNS configuration and troubleshooting, refer to link <u>Troubleshoot Secure Web</u> <u>Appliance DNS Service</u>

This example shows the high latency time related to DNS name resolution:

```
1750344193.093
                       4472
                                 10.10.20.30
                                                  TCP MISS SSL/200
                                                                              39
                                                                                    CONNECT
                                                                                                   tunnel://cisco.com:443/
"cisco\user@cisco.com"DIRECT/www.cisco.com-DECRYPT_WEBCAT_7-DefaultGroup-
Authentication_Profile-DefaultGroup-NONE-NONE-DefaultGroup-NONE <" C_Cis",6.3,1," -",-,-,-,
   "-",-,-,"-","-",-,-,"IW_Com",-,"-","Computer","-","Unknown","Unknown","-","-",0.06,0,-,"-","-
-,"-",-,-,"-","-",-,-,"-",-,->--[Request Details: ID = 169121930, User Agent = "Mozilla/5.0 (Windows
10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/137.0.0.0 Safari/537.36", AD
Group Memberships = ( NTLMSSP ) "Cisco\Users" ] [ Tx Wait Times (in ms): 1st byte to server = 3, Request
Header = 0, Request to Server = 0, 1st byte to client = 3, Response Header = 0, Client Body = 9 ] [ Rx Wait Times (in ms): 1st request byte = 0, Request Header = 0, Client Body = 0, 1st response byte = 0. Response
header = 0, Server response = 13, Disk Cache = 0; Auth response = 0, Auth total = 3; DNS response = 4320
DNS total = 65, WBRS response = 0, WBRS total = 0, AVC response = 0, AVC total = 0, DCA response = 0,
DCA total = 0, McAfee response = 0, McAfee total = 0, Sophos response = 0, Sophos total = 0, Webroot
response = 0, Webroot total = 0, Anti-Spyware response = 0, Anti-Spyware total = 0; AMP response = 0,
AMP total = 0; Latency = 4353; "19/Jun/2025:14:43:13 +0000" ] [Client Port = 57785, Server IP =
10.20.30.40, Server Port = 443]
```

Image - Sample of High DNS Resolution Latency

High Scanning Engine Time

If the response time is high for Web Reputation Score (WBRS), Application and Visibility Control (AVC), and Malware Scanning engines, this information is required for TAC to troubleshoot scanning engine high response time:

- Current SWA configuration.
- Depends on the Engine that has high response time, change the logging level to debug.

This example shows the high latency time related to Sophos Engine:

```
1750344193.093
                 4500
                                     TCP_MISS_SSL/200
                                                              CONNECT
                                                                          tunnel://cisco.com:443/
                        10.10.20.30
                                                         39
cisco\user@cisco.com"DIRECT/www.cisco.com-DECRYPT_WEBCAT_7-DefaultGroup-Authentication_Profile-
 DefaultGroup-NONE-NONE-DefaultGroup-NONE
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/137.0.0.0 Safari/537.36", AD Group Memberships = (
NTLMSSP) "Cisco\Users" ] [ Tx Wait Times (in ms): 1st byte to server = 3, Request Header = 0, Request to
Server = 0, 1st byte to client = 3, Response Header = 0, Client Body = 9 ] [ Rx Wait Times (in ms): 1st request
byte = 0, Request Header = 0, Client Body = 0, 1st response byte = 0, Response header = 0, Server response =
13, Disk Cache = 0; Auth response = 0, Auth total = 0; DNS response = 0, DNS total = 0, WBRS response = 0,
WBRS total = 0, AVC response = 0, AVC total = 0, DCA response = 0, DCA total = 0, McAfee response = 0,
McAfee total = 0, Sophos response = 4376, Sophos total = 145, Webroot response = 0, Webroot total = 0,
Anti-Spyware response = 0, Anti-Spyware total = 0; AMP response = 0, AMP total = 0; Latency = 4409;
"19/Jun/2025:14:43:13 +0000" ] [Client Port = 57785, Server IP = 10.20.30.40, Server Port = 443]
```

Image - Malware Scanning Engine High Latency

If the scanning engines show high response, for immediate recovery, you can restart the **scanning service** from CLI using these steps:

- Step 1. Type **diagnostic** and press **Enter** (This is a hidden command and you need to type the exact command.)
- Step 2. Choose **SERVICES**.
- Step 3. To restart the **WBRS service**, choose **WBRS** else skip to step 6.
- Step 4. Choose **RESTART**.
- Step 5. Keep pressing **Enter** to exit the wizard.
- Step 6. In case you are planning to restart any Malware scanning engine, choose **ANTIVIRUS**.
- Step 7. Select your **scanners**.
- Step 8. Choose **RESTART**.
- Step 9. Keep pressing **Enter** to exit the wizard.



Warning: Restarting the internal services causes service interruption. Recommend to perform this in off-production hours or by caution.

Best Practice While Connecting Packet Capture

While performing any packet capture please collect and share this information with Cisco TAC.

- · Client IP address.
- The URL which you were trying to access.
- The IP address resolved for that URL from Client PC and from the SWA.
- User experience (such as page did not load or has partial load, and if there are any error messages, please take a screen shot).
- Time-stamp of the test.
- Close all other browsers and apps on the client machine. Access the **website**, **capture logs** in Notepad for one success/failure attempt, and share with **Cisco Support**.

For detailed information about how to perform packet capture in SWA, refer to link <u>Configure Packet Capture on Content Security Appliance</u>

Configuration Complexity

Another common cause of high latency and poor performance is configuration complexity. This occurs when the SWA is configured with an excessive number of conditions, profiles, and policies. Such complexity can significantly increase response times and place a heavy load on the proxy process. This issue tends to become more pronounced during peak hours, when traffic is at its highest.

Here are some tips to Optimize Configuration:

- 1. Limit HTTPS Decryption: Only decrypt the traffic essential to your security policies. Whenever possible, reduce processing overhead while maintaining security.
- 2. Prioritize Policies for Efficiency: Arrange the most frequently used policies at the top of the policy list. This ensures faster processing by addressing most demanding traffic first.
- 3. Streamline Policy Design: Simplify policies by minimizing their number as much as possible. This reduces unnecessary processing and improves overall system performance.
- 4. Optimize Anti-Malware and Anti-Virus Scanning: Review scanning configurations for anti-malware and anti-virus processes. These can be CPU-intensive, so fine-tuning them can significantly lower resource consumption without compromising security.
- 5. Use Lightweight Regular Expressions: Avoid complex or resource-heavy regular expressions. Ensure characters like dots (.) and stars (*) are properly escaped to reduce processing strain and prevent inefficiencies

For detailed information about SWA Best Practice, visit <u>Use Secure Web Appliance Best Practices</u>

CLI Commands

Version

Use **version** command to verify hardware allocation (for Virtual SWA) and RAID status (for physical SWA). Check hardware configuration: Ensure number of CPU cores, Memory and Hard disks are allocated as expected. In virtual models, RAID status shows as Unknown, if the RAID Status is Degraded or Failed in physical appliance, please contact Cisco TAC to review the disk status from back end.

Here is a Sample of allocating more CPU to the SWA that can lead to misbehavior:

SWA Lab> version Current Version

Product: Cisco S100V Secure Web Appliance

Model: S100V BIOS: 6.00

CPUs: 3 expected, 4 allocated

Memory: 8192 MB expected, 8192 MB allocated

Hard disk: 200 GB, or 250 GB expected; 200 GB allocated

RAID: NA

RAID Status: Optimal

displayalerts

Use **displayalerts** command to check SWA network related alert messages that can indicate the root cause.

In this example, the DNS server at IP address 10.10.10.10 was not responding, and the message "The File Reputation service is not reachable" can indicate a network connectivity issue.

```
SWA LAB> displayalerts

Date and Time Stamp

Description

26 Mar 2025 11:20:07 +0500 The File Reputation service is not reachable.

26 Mar 2025 11:20:07 +0500 Critical: Reached maximum failures querying DNS server 10.10.10.10

26 Mar 2025 11:20:07 +0500 Critical: Reached maximum failures querying DNS server 10.10.10.10

26 Mar 2025 10:16:18 +0500 Warning: Communication with the File Reputation service has been established
```

process_status

Use process_status command to view process and memory usage of SWA internal services.

If the Prox process, which is the main process handling traffic proxying, consistently exceeds 100% usage for several minutes, it indicates a sustained high load on the process. However, occasional short spikes in CPU usage on the Prox or other processes are normal and expected.

```
<#root>
SWA LAB> process_status
USER
         PID
  %CPU
%MEM
   VSZ
          RSS TT STAT STARTED
                                         TIME
COMMAND
         11 2805.4 0.0
                                     512 -
                                            RNL 28Jun24 11863204:12.63 idle
root
       71189
root
102.0
19.5
 6670700 6478032 - R
                          23Feb25
                                    18076:32.80
prox
                                                             58854:51.78 counterd
      91880
              99.0 0.6
                          369564
                                 214832
                                            R
                                                 28Jun24
root
root
      91267
              76.0 0.9
                          379804
                                  292324
                                             R
                                                  28Jun24
                                                             59371:01.26 counterd
              25.9 0.0
                              0
                                   1600
                                            WL
                                                  28Jun24
                                                             30899:57.88 intr
root
         12
      46955
              25.0 0.2
                          91260
                                   59336 -
                                            S
                                                 23Jan25
                                                             7547:02.96 wbnpd
root
      95056
              23.0 11.2 5369332 3710348 -
                                            Ι
                                                 28Jun24
                                                            31719:23.99 java
root
      93190
              12.0 1.4 3118384 456088 -
                                            S
                                                 01:15
                                                                29:57.05 beakerd
root
      64579
              11.0 0.2 101336
                                   71204 - S
                                                            12074:55.55 coeuslogd
                                                  6Aug24
root
```

status detail

The **status detail** command provides a real-time summary of system resource usage, network traffic metrics, and connection statistics, reflecting the overall health and performance of the SWA. It mirrors the System Status view in the GUI for quick monitoring and troubleshooting.

<#root>

SWA LAB> Status detail

Status as of: Wed Mar 26 11:51:27 2025 PKT

Up since: Fri Jun 28 13:45:43 2024 PKT (270d 22h 5m 43s)

1745

2210

99

System Resource Utilization:

CPU 16.0%

RAM 10.3%

Reporting/Logging Disk 19.8%

Transactions per Second:
Average in last minute
Maximum in last hour

Average in last hour 1708
Maximum since proxy restart 2451
Average since proxy restart 615

Bandwidth (Mbps):

Average in last minute 149.699
Maximum in last hour 1356.387
Average in last hour 229.634
Maximum since proxy restart 22075.244
Average since proxy restart 60.689

Response Time (ms):
Average in last minute

Maximum in last hour 8194128
Average in last hour 87
Maximum since proxy restart 19608632
Average since proxy restart 28

Cache Hit Rate:

Average in last minute 3
Maximum in last hour 6
Average in last hour 2
Maximum since proxy restart 89
Average since proxy restart 2

Connections:

Idle client connections 3481
Idle server connections 754

Total client connections 21866

SSLJobs:	
In queue Avg in last minute	0
Average in last minute	12050
SSLInfo Average in last min	0
Network Events:	
Average in last minute	16.0
Maximum in last minute	171
Network events in last min 1	51918

Ipcheck

The **ipcheck** command displays detailed system information for the Secure Web Appliance, including hardware specs, disk usage, network interfaces, installed software keys, and version details, providing a comprehensive snapshot of the appliance's current state.

<#root>

SWA LAB > ipcheck
Ipcheck Rev

Date Fri Mar 21 16:34:56 2025

Model S100V

Platform vmware (VMware Virtual Platform) Secure Web Appliance Version Version: 15.2.1-011

Build Date 2024-10-03

Install Date 2025-02-13 17:49:24

Burn-in Date Unknown
BIOS Version 6.00
RAID Version NA
RAID Status Unknown
RAID Type NA
RAID Chunk Unknown
BMC Version NA

Disk 0 200GB VMware Virtual disk 1.0 at mpt0 bus 0 scbus2 target 0 lun 0

Disk Total 200GB

Root 4GB 64%

Nextroot 4GB 65%

Var 400MB 38%

Log 130GB 24%

DB 2GB 0%

Swap 8GB Proxy Cache 50GB RAM Total 8192M

rate

The rate command prints the connection rates and the number of requests per seconds for every 10 seconds.

<#root>

SWA LAB> rate
Press Ctrl-C to stop.

%proxy reqs		client	server	%bw	disk o	disk
CPU /sec	hits blocks misses	kb/sec	kb/sec	saved	wrs	rds
100.00 1800	17 16352 1626	178551	178551	0.0	2366	0
100.00 1813	18 16453 1659	226301	224952	0.6	3008	0
99.00 1799	10 16338 1645	206234	206234	0.0	3430	1

Collecting Logs for High Latency

It depends on the section that you are seeing high response time from Access Logs or high process load from SHD logs, for further troubleshooting, it is best to change the corresponding log subscription to Debug.



Warning: Setting the log level to debug or trace can lead to increased resource usage and cause log files to rotate or overwrite quickly.

Access Log Field	SHD Log Field	Corresponding Log Subscription
Auth response, Auth total		authlogs
DNS response, DNS total		system_logs
WBRS response, WBRS total	Wbrs_WucLd	Contact Cisco TAC
AVC response, AVC total		avc_logs
McAfee response, McAfee total	McafeeLd	mcafee_logs

Sophos response, Sophos total	SophosLd	sophos_logs
Webroot response, Webroot total	WebrootLd	webrootlogs
AMP response, AMP total	AMPLd	amp_logs

Related Information

Troubleshoot Secure Web Appliance Performance with SHD Logs

Access Secure Web Appliance Logs

Configure Packet Capture on Content Security Appliance

Use Secure Web Appliance Best Practices

Configure Performance Parameter in Access Logs

Troubleshoot Unusual Process States in SWA

Determine Decryption Rate in SWA

Troubleshoot Secure Web Appliance DNS Service

Access Secure Web Appliance Logs