

Troubleshoot Alert Message - The File Reputation Service Is Not Reachable

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Introduction

This document describes the alert attributed to the Cisco Email Security Appliance (ESA) with Advanced Malware Protection (AMP) enabled, where the service is unable to communicate over port 32137 or 443 for File Reputation.

"The File Reputation service is not reachable" Error Received for AMP

AMP was released for use on the ESA in AsyncOS Version 8.5.5 for Email Security. With AMP licensed and enabled on the ESA, administrators receive this message:

The Warning message is:

The File Reputation service is not reachable.

Last message occurred 2 times between Tue Sep 10 14:15:14 2024 and Tue Sep 10 14:16:23 2024.

Version: 15.5.1-055

Serial Number: 123A82F6780XXX9E1E10-XXX5DBEFCXXX

Timestamp: 10 Sep 2024 14:19:00 -0500

AsyncOS 14.x or Earlier

The AMP service is enabled but might not communicate on the network via port 32137 for File Reputation.

If that is the case, the ESA administrator can choose to have File Reputation communicate over port 443.

To do so, run **amponfig > advanced** from the CLI and be sure that **Y** is selected for *Do you want to enable SSL communication (port 443) for file reputation? [N]>*:

<#root>

(Cluster example.com)>

ampconfig

Choose the operation you want to perform:

- SETUP - Configure Advanced-Malware protection service.
- ADVANCED - Set values for AMP parameters (Advanced configuration).
- SETGROUP - Add this appliance to the group of appliances that can share File Analysis reporting details.
- CACHESETTINGS - Configure the cache settings for AMP.
- CLUSTERSET - Set how advanced malware protection is configured in a cluster.
- CLUSTERSHOW - Display how advanced malware protection is configured in a cluster.

[]>

advanced

Enter cloud query timeout?

[15]>

Choose a file reputation server:

1. AMERICAS (cloud-sa.amp.cisco.com)
2. AMERICAS(Legacy) (cloud-sa.amp.sourcefire.com)
3. EUROPE (cloud-sa.eu.amp.cisco.com)
4. APJC (cloud-sa.apjc.amp.cisco.com)
5. Private reputation cloud

[1]>

Do you want use the recommended analysis threshold from cloud service? [Y]>

Enter heartbeat interval?

[15]>

Do you want to enable SSL communication (port 443) for file reputation? [N]>

Y

Proxy server detail:

Server :

Port :

User :

Do you want to change proxy detail [N]>

Do you want to suppress the verdict update alerts for all messages that are not delivered to the recipient? [N]>

Choose a file analysis server:

1. AMERICAS (https://panacea.threatgrid.com)
2. EUROPE (https://panacea.threatgrid.eu)
3. Private analysis cloud

[1]>

If you use the GUI, choose **Security Services > File Reputation and Analysis > Edit Global Settings > Advanced (drop-down)** and ensure the **Use SSL** checkbox is checked as shown here:

SSL Communication for File Reputation:

Use SSL (Port 443)


Tunnel Proxy (Optional):

Server: Port:

Username:

Password:

Retype Password:

Relax Certificate Validation for Tunnel Proxy 

Commit any and all changes to the configuration.

Finally, review the current AMP log to see the service and connectivity success or failure. You can accomplish this from the CLI with **tail amp**.

Before changes were made to **amponfig > advanced**, you would have seen this in the AMP logs:

```
Mon Jan 26 10:11:16 2015 Warning: amp The File Reputation service in the cloud
is unreachable.
Mon Jan 26 10:12:15 2015 Warning: amp The File Reputation service in the cloud
is unreachable.
Mon Jan 26 10:13:15 2015 Warning: amp The File Reputation service in the cloud
is unreachable.
```

After the change is made to **amponfig > advanced**, you see this in the AMP logs:

```
Mon Jan 26 10:19:19 2015 Info: amp stunnel process started pid [3725]
Mon Jan 26 10:19:22 2015 Info: amp The File Reputation service in the cloud
is reachable.
Mon Jan 26 10:19:22 2015 Info: amp File reputation service initialized
successfully
Mon Jan 26 10:19:22 2015 Info: amp File Analysis service initialized
successfully
Mon Jan 26 10:19:23 2015 Info: amp The File Analysis server is reachable
Mon Jan 26 10:20:24 2015 Info: amp File reputation query initiating. File Name =
'amp_watchdog.txt', MID = 0, File Size = 12 bytes, File Type = text/plain
Mon Jan 26 10:20:24 2015 Info: amp Response received for file reputation query
from Cloud. File Name = 'amp_watchdog.txt', MID = 0, Disposition = file unknown,
Malware = None, Reputation Score = 0, sha256 = a5f28f1fed7c2fe88bcdf403710098977
fa12c32d13bfbd78bbe27e95b245f82, upload_action = 1
```

The **amp_watchdog.txt** file as shown in the previous example shall run every 10 minutes and be tracked in the AMP log. This file is part of the keep-alive for AMP.

A normal query in the AMP log against a message with the configured file type(s) for File Reputation and File Analysis would be similar to this:

```
Wed Jan 14 15:33:01 2015 Info: File reputation query initiating. File Name =
```

'securedoc_20150112T114401.html', MID = 703, File Size = 108769 bytes, File Type = text/html
Wed Jan 14 15:33:02 2015 Info: Response received for file reputation query from Cloud. File Name = 'securedoc_20150112T114401.html', MID = 703, Disposition = file unknown, Malware = None, Reputation Score = 0, sha256 = c1afd8efe4eeb4e04551a8a0f5533d80d4bec0205553465e997f9c672983346f, upload_action = 1

With this log information, the administrator can correlate the Message ID (MID) in the mail logs.


Additional Troubleshooting

Review firewall and network settings to ensure that SSL communication is opened for these:

Port	Protocol	In/Out	Hostname	Description
443	TCP	Out	As configured in Security Services > File Reputation and Analysis, Advanced section.	Access to cloud services for file analysis.
32137	TCP	Out	As configured in Security Services > File Reputation and Analysis, Advanced section, Advanced section, Cloud Server Pool parameter.	Access to cloud services in order to obtain file reputation.

You can test basic connectivity from your ESA to the cloud service over 443 via Telnet to ensure that your appliance can successfully reach the AMP services, File Reputation, and File Analysis.

 **Note:** The addresses for File Reputation and File Analysis are configured on the CLI with **amponfig > advanced** or from the GUI with **Security Services > File Reputation and Analysis > Edit Global Settings > Advanced (drop-down)**.

 **Note:** If utilizing a tunnel proxy between the ESA and File Reputation server(s), you might be required to enable the option to Relax Certificate Validation for Tunnel Proxy. This option is provided to skip standard certificate validation if the tunnel proxy server's certificate is not signed by a root authority trusted by the ESA. For instance, select this option if using a self-signed certificate on a trusted internal tunnel proxy server.

File Reputation example:

```
10.0.0-125.local> telnet cloud-sa.amp.sourcefire.com 443  
  
Trying 23.21.199.158...  
Connected to ec2-23-21-199-158.compute-1.amazonaws.com.  
Escape character is '^]'.  
^]  
telnet> quit  
Connection closed.
```

File Analysis example:

```
10.0.0-125.local> telnet panacea.threatgrid.com 443
```

```
Trying 69.55.5.244...
Connected to 69.55.5.244.
Escape character is '^]'.
^]
telnet> quit
Connection closed.
```

If the ESA can telnet to the file reputation server, and there is not an upstream proxy decrypting the connection, then the appliance may need to be re-registered with Threat Grid. On the ESA CLI there is a hidden command:

```
10.0.0-125.local> diagnostic
```

Choose the operation you want to perform:

- RAID - Disk Verify Utility.
 - DISK_USAGE - Check Disk Usage.
 - NETWORK - Network Utilities.
 - REPORTING - Reporting Utilities.
 - TRACKING - Tracking Utilities.
 - RELOAD - Reset configuration to the initial manufacturer values.
 - SERVICES - Service Utilities.
- ```
[> ampregister
```

AMP registration initiated.

## AsyncOS 15.x or Later

Make sure that the correct File Reputation server is selected. This can also be accomplished in the GUI by navigating to **Security Services > File Reputation and Analysis > Edit Global Settings > Advanced Settings for File Reputation > File Reputation Server**.



**Note:** For hostname and port information to configure your firewall, please review the Firewall Information section within the user guide [here](#).

---

```
(Cluster example.com)> ampcnfig
```

```
File Reputation: Enabled
File Analysis: Enabled
Appliance Group ID/Name: Not part of any group yet
```

Choose the operation you want to perform:

- SETUP - Configure Advanced-Malware protection service.
  - ADVANCED - Set values for AMP parameters (Advanced configuration).
  - SETGROUP - Add this appliance to the group of appliances that can share File Analysis reporting details.
  - CACHESETTINGS - Configure the cache settings for AMP.
  - CLUSTERSET - Set how advanced malware protection is configured in a cluster.
  - CLUSTERSHOW - Display how advanced malware protection is configured in a cluster.
- ```
[> advanced
```

Enter cloud query timeout?

[20]>

Choose a file reputation server:

1. US Cloud
2. EU Cloud
3. APJC Cloud
4. Private reputation cloud

[1]>

Do you want use the recommended analysis threshold from cloud service? [Y]>

Enter heartbeat interval?

[15]>

Proxy server detail:

Server :

Port :

User :

Passphrase:

Do you want to change proxy detail [N]>

Do you want to suppress the verdict update alerts for all messages that are not delivered to the recipient?

Choose a file analysis server:

1. AMERICAS (<https://panacea.threatgrid.com>)
2. AUSTRALIA (<https://panacea.threatgrid.com.au>)
3. CANADA (<https://panacea.threatgrid.ca>)
4. EUROPE (<https://panacea.threatgrid.eu>)
5. Private analysis cloud

[1]>

Use Existing File Reputation Proxy? [N]>

Proxy server detail:

Server :

Port :

User :

Password :

Do you want to change proxy detail [N]>

File Reputation: Enabled

File Analysis: Enabled

Appliance Group ID/Name: Not part of any group yet

Related Information

- [ESA Advanced Malware Protection \(AMP\) Test](#)
- [ESA User Guides](#)
- [ESA FAQ: What is a Message ID \(MID\), Injection Connection ID \(ICID\), or Delivery Connection ID \(DCID\)?](#)
- [How do I search and view the mail logs on the ESA?](#)
- [Technical Support & Documentation - Cisco Systems](#)