



Firewall Information

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Firewall Information

The following table lists the possible ports that may need to be opened for proper operation of Cisco Secure Email Gateway (these are the default values).

Table 1: Firewall Ports

| Default Port | Protocol | In/Out | Hostname | Purpose |
|--------------|----------|-----------|-------------------------|---|
| 20/21 | TCP | In or out | AsyncOS IPs, FTP server | FTP for aggregation of log files. Data ports TCP 1024 and higher must also all be open. For more information, search for FTP port information in the Knowledge Base. See Knowledge Base . |
| 22 | TCP | In | AsyncOS IPs | SSH access to the CLI, aggregation of log files. |
| 22 | TCP | Out | SSH Server | SSH aggregation of log files. |
| 22 | TCP | Out | SCP server | SCP push to log server. |
| 25 | TCP | Out | Any | SMTP to send email. |
| 25 | TCP | In | AsyncOS IPs | SMTP to receive bounced email or if injecting email from outside firewall. |

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|-------------|---------|----------|-------------------------------|--|
| 53 | UDP/TCP | Out | DNS servers | DNS if configured to use Internet root servers or other DNS servers outside the firewall. Also for SenderBase queries. |
| 80 | HTTP | In | AsyncOS IPs | HTTP access to the GUI for system monitoring. |
| 80 | HTTP | Out | downloads.ironport.com | and McAfee definitions. |
| 80 | HTTP | Out | updates.ironport.com | AsyncOS upgrades and McAfee definitions. |
| 80 | HTTP | Out | TAXII servers | Used to allow your email gateway to consume external threat feeds. |
| 82 | HTTP | In | AsyncOS IPs | Used for viewing the spam quarantine. |
| 83 | HTTPS | In | AsyncOS IPs | Used for viewing the spam quarantine. |
| 110 | TCP | Out | POP server | POP authentication for end users for spam quarantine. |
| 123 | UDP | In & Out | NTP server | NTP if time servers are outside firewall. |
| 143 | TCP | Out | IMAP server | IMAP authentication for end users for spam quarantine. |
| 161 | UDP | In | AsyncOS IPs | SNMP Queries. |
| 162 | UDP | Out | Management station | SNMP Traps. |
| 389 or 3268 | LDAP | Out | LDAP servers | LDAP if LDAP directory servers are outside firewall. LDAP authentication for Cisco Spam Quarantine. |
| 636 or 3269 | LDAPS | Out | LDAPS | LDAPS — ActiveDirectory's global catalog server (uses SSL). |
| 443 | TCP | In | AsyncOS IPs | Secure HTTP (https) access to the GUI for system monitoring. |
| 443 | TCP | Out | res.cisco.com | Verify the latest files for the update server. |
| 443 | TCP | Out | update-manifests.ironport.com | Obtain the list of the latest files from the update server (for physical hardware email gateways.) |

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|-----|-------|------------|---|---|
| 443 | TCP | Out | update-manifests.sco.cisco.com | Obtain the list of the latest files from the update server (for virtual email gateways.) |
| 443 | TCP | Out | serviceconfig.talos.cisco.com grpc.talos.cisco.com email-sender-ip-rep-grpc.talos.cisco.com For IP -based firewall: 146.112.62.0/24 146.112.63.0/24 146.112.255.0/24 146.112.59.0/24 2a04:e4c7:ffff::/48 2a04:e4c7:fffe::/48 | Cisco Talos Intelligence Services - to obtain IP reputation, URL reputation and category, and to send Service Logs details. |
| 443 | TCP | Out | kinesis.us-west-2.amazonaws.com sensor-provisioner.ep.prod .agari.com houston.sensor.prod.agari.com | Register and send header details to Cisco Advanced Phishing Protection cloud service. |
| 443 | TCP | In & Out | outlook.office365.com login.microsoftonline.com. | Access to Office 365 services for mailbox auto remediation. |
| 443 | TCP | In & Out | Hostname of the Microsoft On-premise exchange server | Access to Microsoft On-premise exchange servers for remedating messages from the mailbox. |
| 443 | TCP | Out | aggregator.cisco.com | Access to the Cisco Aggregator server. |
| 443 | HTTPS | Out | logapi.ces.cisco.com | To upload the debug logs that are collected by Cisco TAC. |
| 443 | HTTPS | Out | TAXII servers | Used to allow your email gateway to consume external threat feeds. |
| 443 | HTTPS | In and Out | api-sse.cisco.com | Used to register your email gateway with Cisco Cloud Services Portal. |
| 443 | HTTPS | In and Out | api.eu.sse.itd.cisco.com | Used to register your email gateway with Cisco Cloud Services Portal. |

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|-----------------|---------|------------|---------------------------|--|
| 443 | HTTPS | In and Out | api.apj.sse.itd.cisco.com | Used to register your email gateway with Cisco Cloud Services Portal. |
| 443 | HTTPS | In and Out | est.sco.cisco.com | Used to download a certificate to verify whether your email gateway is accessing a verified site when registering to Cisco Cloud Services Portal. |
| 443 | HTTPS | In and Out | AsyncOS IPs | HTTPS access to the GUI using <code>trailblazerconfig</code> CLI command. |
| 514 | UDP/TCP | Out | Syslog server | Syslog logging. |
| 628 | TCP | In & In | AsyncOS IPs | QMQP if injecting email from outside firewall. |
| 990 | TCP/FTP | Out | cxd.cisco.com | To upload the debug logs that are collected by Cisco TAC. |
| 1024 and higher | — | — | — | See information above for Port 21 (FTP.) |
| 2222 | CCS | In & In | AsyncOS IPs | Cluster Communication Service (for Centralized Management). |
| | TCP | Out | AsyncOS IPs | Cisco Spam Quarantine. |
| 7025 | TCP | In and out | AsyncOS IPs | Pass policy, virus, and outbreak quarantine data between Cisco Secure Email Gateways and Cisco Secure Manager Email and Web Gateways when this feature is centralized. |
| 6080 | HTTP | In or Out | AsyncOS IPs | Access to API ports for HTTP Server |
| 6443 | HTTPS | In or Out | AsyncOS IPs | Access to API ports for HTTPS Server |

Firewall Information for File Reputation and File Analysis Services

The following table lists the possible ports that may need to be opened for proper operation of File Reputation and File Analysis services configured in your email gateway (these are the default values).

Table 2: Firewall Ports

| Region | Purpose | Hostname | Default Port | Protocol | In / Out |
|-----------------------------|-------------------|--|--------------|----------|----------|
| US and North America | File Reputation | cloud-esa-asn. amp.cisco.com cloud-esa-est. amp.cisco.com | 443 | TCP | Out. |
| | File Analysis | panacea.threatgrid.com | 443 | TCP | Out |
| | API | api.amp.cisco.com | 443 | TCP | Out |
| | Event Server | intake.amp.cisco.com | 443 | TCP | Out |
| | Management Server | mgmt.amp.cisco.com | 443 | TCP | Out |
| Canada | File Analysis | panacea.threatgrid.ca | 443 | TCP | Out |
| Europe | File Reputation | cloud-esa-asn. eu.amp.cisco.com cloud-esa-est. eu.amp.cisco.com | 443 | TCP | Out |
| | File Analysis | panacea.threatgrid.eu | 443 | TCP | Out |
| | API | api.eu.amp.cisco.com | 443 | TCP | Out |
| | Event Server | intake.eu.amp.cisco.com | 443 | TCP | Out |
| | Management Server | mgmt.eu.amp.cisco.com | 443 | TCP | Out |
| Australia | File Analysis | panacea.threatgrid.com.au | 443 | TCP | Out |

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|----------------------------|-------------------|--|-----|-----|-----|
| Asia Pacific, Japan, China | File Reputation | cloud-esa-asn. apjc.amp.cisco.com cloud-esa-est. apjc.amp.cisco.com | 443 | TCP | Out |
| | File Analysis | Use European or North American hostnames | 443 | TCP | Out |
| | API | api.apjc.amp.cisco.com | 443 | TCP | Out |
| | Event Server | intake.apjc.amp.cisco.com | 443 | TCP | Out |
| | Management Server | mgmt.apjc.amp.cisco.com | 443 | TCP | Out |

Protecting Email Gateway from Network Attacks

Make sure that you perform the following prerequisites to protect your email gateway from network attacks:

- Do not expose port 22 (SSH) to your email gateway external IP address.
- Enable only specific IP addresses to manage your email gateway using the web interface and CLI configuration settings.
- [If required] Enable Host Header protection using the `adminaccessconfig` CLI command.
- Enable Cross Scripting protection using the `adminaccessconfig` CLI command.
- Do not configure a Relay rule on a public listener.



Note If you require a relay rule on an external listener, configure 'SMTP AUTH' on a normal public listener.
