

Configurar nombres de dominio UTF-8 (IDN) en 14.X

Contenido

[Introducción](#)

[Requirements](#)

[Componentes Utilizados](#)

[Idiomas admitidos en 14.x para el soporte de IDN](#)

[Lenguas regionales indias](#)

[Lenguas europeas/asiáticas](#)

[Formatos compatibles con IDN](#)

[¿Dónde se admite IDN?](#)

[Rutas SMTP](#)

[Dominios DNS](#)

[Receptor - RAT/HAT](#)

[Políticas de correo entrante/saliente - Remitentes/destinatarios](#)

[Tabla de excepciones](#)

[Listas de direcciones](#)

[Controles de destino](#)

[Perfiles de rebote](#)

[LDAP](#)

[Cuarentena de spam local](#)

[Verificación y resolución de problemas](#)

[Información Relacionada](#)

Introducción

Este documento describe cómo configurar y utilizar la nueva función UTF-8 International Domain Name (IDN) añadida a Secure Email Gateway (ESA) y Secure Email Cloud Gateway (CES) en el código 14.x

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Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

Conceptos y configuración de ESA

Componentes Utilizados

La información de este documento se basa en AsyncOS para ESA 14.0 y posteriores.

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. Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

Idiomas admitidos en 14.x para el soporte de IDN

Lenguas regionales indias

hindi, tamil, telugu, canarés Marati, punjabi, malayalam, bengalí, Gujarati, urdu, assamés, nepalí, Bodo, bengalí, Dogri, Cachemira, Konkani, Maithili, Manipuri, Oriya, Sanskrit, Santali, Sindhi, Tulu.

Lenguas europeas/asiáticas

Francés, ruso, japonés, alemán, ucraniano, coreano, español, italiano, chino, holandés, tailandés, árabe, kazajo

Formatos compatibles con IDN

- Dominio IDN completo: अ न अ न् ता@जी^.Compati, ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷.Compati
- Dominio IDN parcial: .को म , ಯೂ ಹೂ.ಜ್ಞಾ
- ASCII, combinación de IDN: test@जी मे ल.को म

¿Dónde se admite IDN?

Rutas SMTP

Navegue hasta Red -> Rutas SMTP -> Agregar Ruta -> Agregar dominio IDN -> Enviar -> Registrar

Mode —Cluster: ESA_BETA_CLUSTER Change Mode...

Centralized Management Options

SMTP Route Settings

Receiving Domain: ?	जीमेल.कोम			
Destination Hosts:	Priority ?	Destination ?	Port	Add Row
	0	10.1.1.1	25	
	(Hostname, IPv4 or IPv6 address.)			
Outgoing SMTP Authentication:	No outgoing SMTP authentication profiles are configured. See Network > SMTP Authentication			

Note: DANE will not be enforced for domains that have SMTP Routes configured.

Cancel Submit

Dominios DNS

Podemos agregar o editar dominios IDN en servidores DNS.

Navegue hasta Red -> DNS -> Editar configuración -> **Agregar** el dominio IDN bajo "reemplazos de servidor DNS alternativo"

Mode —Cluster: ESA_BETA_CLUSTER Change Mode...

Centralized Management Options

DNS Server Settings

DNS Servers: Use these DNS Servers

Priority ?	Server IP	Add Row
0	10.0.201.2	
1	10.0.201.12	

Alternate DNS servers Overrides (Optional):

Domain(s)	DNS Server IP Address	Add Row
जमिन.कम <i>i.e., example.com, example2.com</i>	10.1.1.4 <i>i.e., 10.0.0.3</i>	

Use the Internet's Root DNS Servers

Alternate DNS servers Overrides (Optional):

Domain	DNS Server FQDN	DNS Server IP Address	Add Row
<input type="text"/>	<input type="text"/>	<input type="text"/>	
<i>i.e., example.com</i>	<i>i.e., dns.example.com</i>	<i>i.e., 10.0.0.3</i>	

Interface for DNS Traffic:

Wait Before Timing out Reverse DNS Lookups:

Cancel Submit

NOTE:

·dominios de IDN público son resueltos por el servidor DNS raíz público/de Internet.

·dominios IDN locales: En el servidor DNS local, cree archivos de zona con registros en formato de código de acceso equivalente a dominios IDN [por ejemplo: xn—2scrj9c.xn—2scrj9c.] para manejar la resolución de los nombres de dominio IDN locales.

Receptor - RAT/HAT

Podemos utilizar el soporte de IDN en:

- Receptores entrantes/salientes -> Agregar/editar dominios IDN en dominio predeterminado
- HAT/RAT ->Agregar/editar dominios IDN en HAT/RAT
- Importar/exportar tablas HAT/RAT con IDN

Para configurar la Tabla de Acceso de Destinatarios (RAT) con IDN, navegue hasta Políticas de Correo -> Tabla de Acceso de Destinatarios (RAT) y haga clic en Agregar Destinatario -> Agregar el Dominio IDN -> Enviar -> Registrar

Recipient Access Table Overview

Success — Recipient Access Table entry for "जमेल.कम" was added.

Mode — Cluster: ESA_BETA_CLUSTER

Change Mode...

Centralized Management Options

Overview for Listener: Incoming Items per page 20

Add Recipient... Clear All Entries Import RAT...

Order	Recipient Address	Default Action	All Delete
1	humaaralab.com	Accept	<input type="checkbox"/>
2	doosralab.com	Accept	<input type="checkbox"/>
3	जमेल.कम	Accept	<input type="checkbox"/>
All Other Recipients		Reject	

Edit Order... Export RAT... Delete

Para configurar los grupos de remitentes de la tabla de acceso de host (HAT) con dominios IDN, navegue hasta Políticas de correo -> Descripción general de HAT -> Agregar nuevo grupo de remitentes -> Enviar y agregar remitentes con el nombre de host IDN -> Enviar -> Commit

Sender Group: IDN_Support - Incoming

Success — Sender "जीमेल.कोम" was added.

Mode — Cluster: ESA_BETA_CLUSTER

Change Mode...

Centralized Management Options

Sender Group Settings

Name:	IDN_Support
Order:	9
Comment:	IDN Support
Policy:	ACCEPTED
SBRS (Optional):	Not in use
External Threat Feed (Optional): <i>For IP lookups only</i>	None
DNS Lists (Optional):	None
Connecting Host DNS Verification:	None Included

<< Back to HAT Overview

Edit Settings...

Find Senders

Find Senders that Contain this Text: ?

Find

Sender List: Display All Items in List

Items per page 20

Add Sender...

Sender	Comment	All Delete
जीमेल.कोम	idn sender	<input type="checkbox"/>

<< Back to HAT Overview

Delete

NOTE: Puede seguir el mismo proceso para editar cualquier grupo de remitentes y agregar los dominios IDN.

Políticas de correo entrante/saliente - Remitentes/destinatarios

Para configurar las políticas de correo entrante para manejar IDN, navegue hasta Políticas de correo -> Agregar política -> Proporcionar nombre de política-> Agregar usuarios

Puede elegir utilizar dominios IDN en ambos remitentes/destinatarios o probar cualquier combinación ->Enviar ->Registrar

Incoming Mail Policies

Mode --Cluster: ESA_BETA_CLUSTER

Change Mode...

> Centralized Management Options

Add User

- Any Sender
- Following Senders
- Following Senders are Not

Email Address:

@example.com

(e.g. user@example.com, user@, @example.com, @.example.com)

LDAP Group:

Query: LDAP.group

Group:

Add Group

Remove

- Any Recipient
- Following Recipients

user@example.com

(e.g. user@example.com, user@, @example.com, @.example.com)

Cisco Security Awareness not configured.

LDAP Group:

Query: LDAP.group

Group:

Add Group

Remove

Following Recipients are Not

Email Address:

(e.g. user@example.com, user@, @example.com, @.example.com)

LDAP Group:

Query: LDAP.group

Group:

Add Group

Remove

Cancel

OK

Add Incoming Mail Policy

Mode —Cluster: ESA_BETA_CLUSTER Change Mode...

Centralized Management Options

Add Policy

Policy Name:
(e.g. my IT policy)

Insert Before Policy:

Users

Sender	Recipients	Edit:	Delete
@नीमेल.कॉम	example.com	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

NOTE: Puede seguir el mismo proceso para las políticas de correo saliente.

Tabla de excepciones

Para agregar nombres de dominio IDN a la tabla de excepciones, vaya a

Mail Policy -> Exception Table -> Add Sender Verification Exception -> Add the IDN Domains -> Submit -> Commit

Add Sender Verification Exception

Mode —Cluster: ESA_BETA_CLUSTER Change Mode...

Centralized Management Options

Sender Verification Exception

Exception:
(e.g.: user@example.com, user@, @example.com, @.example.com, @[1.2.3.4])

Order: (of 1)

Behavior: Allow
 Reject

SMTP Code:

SMTP Text:

Address Lists

Mode — Cluster: **ESA_BETA_CLUSTER** Change Mode...

▸ Centralized Management Options

Address Lists

[Add Address List...](#)

Address List Name	Description	Used for	Addresses	All <input type="checkbox"/> Delete
IDN-Support	IDN-Support-test		(3) ಅಭ್ಯಾಸ@ಯಾಹೂ.ಒಂ, @ಜೀಮೆಲ.ಕೊಂ,...	<input type="checkbox"/>

[Delete](#)

Controles de destino

Para agregar nombres de dominio IDN al control de destino, vaya a

Políticas de correo -> Controles de destino -> Agregar destino -> Puede agregar el nombre de dominio IDN -> Enviar -> Registrar

Monitor Mail Policies Security Services Network System Administration

Add Destination Controls

Mode — Cluster: **ESA_BETA_CLUSTER** Change Mode...

▸ Centralized Management Options

Destination Controls

Destination:	<input type="text" value="ಜೀಮೆಲ.ಕೊಂ"/>
IP Address Preference:	Default (IPv6 Preferred)
Limits:	Concurrent Connections: <input type="radio"/> Use Default (500) <input checked="" type="radio"/> Maximum of <input type="text" value="500"/> (between 1 and 1,000)
	Maximum Messages Per Connection: <input type="radio"/> Use Default (50) <input checked="" type="radio"/> Maximum of <input type="text" value="50"/> (between 1 and 1,000)
	Recipients: <input checked="" type="radio"/> Use Default (No Limit) <input type="radio"/> Maximum of <input type="text" value="0"/> per <input type="text" value="60"/> minutes <i>Number of recipients between 0 and 1,000,000,000 per number of minutes between 1 and 60</i>
	Apply limits: Per Secure Email hostname: <input checked="" type="radio"/> System Wide <input type="radio"/> Each Virtual Gateway <i>(recommended if Virtual Gateways are in use)</i>
TLS Support:	Default (None)
DANE Support:	<input type="text" value="Default (None)"/>
Bounce Verification:	Perform address tagging: <input checked="" type="radio"/> Default (No) <input type="radio"/> No <input type="radio"/> Yes <i>Applies only if bounce verification address tagging is in use. See Mail Policies > Bounce Verification.</i>
Bounce Profile:	Default <i>Bounce Profile can be configured at Network > Bounce Profiles.</i>

Note: DANE will not be enforced for domains that have SMTP Routes configured.

[Cancel](#) [Submit](#)

Destination Controls

Success — Your changes have been committed.

Mode — Cluster: ESA_BETA_CLUSTER

Change Mode...

▸ Centralized Management Options

Destination Control Table

Items per page 20

Domain ▲	IP Address Preference	Destination Limits	TLS Support	DANE Support ^	Bounce Verification *	Bounce Profile	All <input type="checkbox"/> Delete
doosralab.com	Default	Default connection limit, 50 messages per connection, Default recipient limit	Required	Default	Default	Default	<input type="checkbox"/>
humaaralab.com	Default	Default connection limit, 50 messages per connection, Default recipient limit	Required	Default	Default	Default	<input type="checkbox"/>
जिमेिल.कोम	Default	500 concurrent connections, 50 messages per connection, Default recipient limit	Default	Default	Default	Default	<input type="checkbox"/>
Default	IPv6 Preferred	500 concurrent connections, 50 messages per connection, No recipient limit	None	None	Off	Default	

[Add Destination...](#) [Import Table](#) [Export Table](#) [Delete](#)

* Bounce Verification settings apply only if bounce verification address tagging is in use. See Mail Policies > Bounce Verification.
^ DANE will not be enforced for domains that have SMTP Routes configured.

Global Settings

Certificate:	Client-Cert
Send an alert when a required TLS connection fails:	Enabled

[Edit Global Settings...](#)

Perfiles de rebote

El destinatario de los mensajes de rebote y de advertencia se puede configurar con el nombre de dominio IDN en Perfiles de rebote.

Navigate hasta Red -> **Perfiles de rebote** -> **Agregar perfil de rebote** -> Introducir nombre -> Configurar los valores para Perfil de rebote -> Para el Destinatario de Mensajes de rebote y Advertencia -> Seleccione **Dirección alternativa** y puede elegir utilizar la dirección de dominio IDN.

Monitor Mail Policies Security Services Network System Administration

Add Bounce Profile

Mode — Cluster: ESA_BETA_CLUSTER Change Mode...

> Centralized Management Options

Add Bounce Profile

Profile Name:

Maximum Number of Retries: (between 0 and 10000)

Maximum Time in Queue: seconds (between 0 and 3000000)

Initial Time to Wait per Message: seconds (between 60 and 86400)

Maximum Time to Wait per Message: seconds (between 60 and 86400)

Hard Bounce and Delay Warning Messages: **Send Hard Bounce Messages:**

Use Default (Yes) Yes No

Use DSN format for bounce messages:

Use Default (Yes) Yes No

Message Composition

Message Subject:

Parse DSN "Status" field from bounce responses: Use Default (No) Yes No

Notification Template: *Bounce Notification Template can be defined at Mail Policies > Text Resources.*

Message Language	Template	Preview	Delete
Default	System Generated		

[Add Row](#)

Send Delay Warning Messages:

Use Default (No) Yes No

Message Composition

Message Subject:

Notification Template: *Bounce Notification Template can be defined at Mail Policies > Text Resources.*

Message Language	Template	Preview	Delete
Default	System Generated		

[Add Row](#)

Minimum Interval Between Messages: seconds

Maximum Number of Messages to Send:

Recipient for Bounce and Warning Messages:

Message sender

Alternate:

Use Domain Key Signing for Bounce and Delay Messages:

Use Default (No) Yes No

There is no signing profile matching bounce from address MAILER-DAEMON@_NOTSET_.. Bounce messages will not be signed until you create appropriate signing profile.

[Cancel](#) [Submit](#)

LDAP

Ahora puede tener las consultas LDAP accept/group con nombres de dominio IDN como se muestra en la imagen.

Incoming Mail Policies

1

Edit User

Any Sender
 Following Senders
 Following Senders are Not

Email Address:

(e.g. user@example.com, user@, @example.com, @.example.com)

LDAP Group:
Query:

Group:

Any Recipient
 Following Recipients

(e.g. user@example.com, user@, @example.com, @.example.com)

Cisco Security Awareness not configured.

If one or more conditions match

LDAP Group:
Query:

Group:

Cuarentena de spam local

Puede ver que la cuarentena SPM local muestra los nombres de dominio IDN en la dirección de correo electrónico de usuario/dominios/asunto

Search

Note: For best performance your search should contain an envelope recipient.

Messages Received: Today Last 7 days Date Range: and

Where :

Envelope Recipient :

[Clear Search] 14 items found Search

Search Results Items per page 25

Displaying 1 – 14 of 14 items.

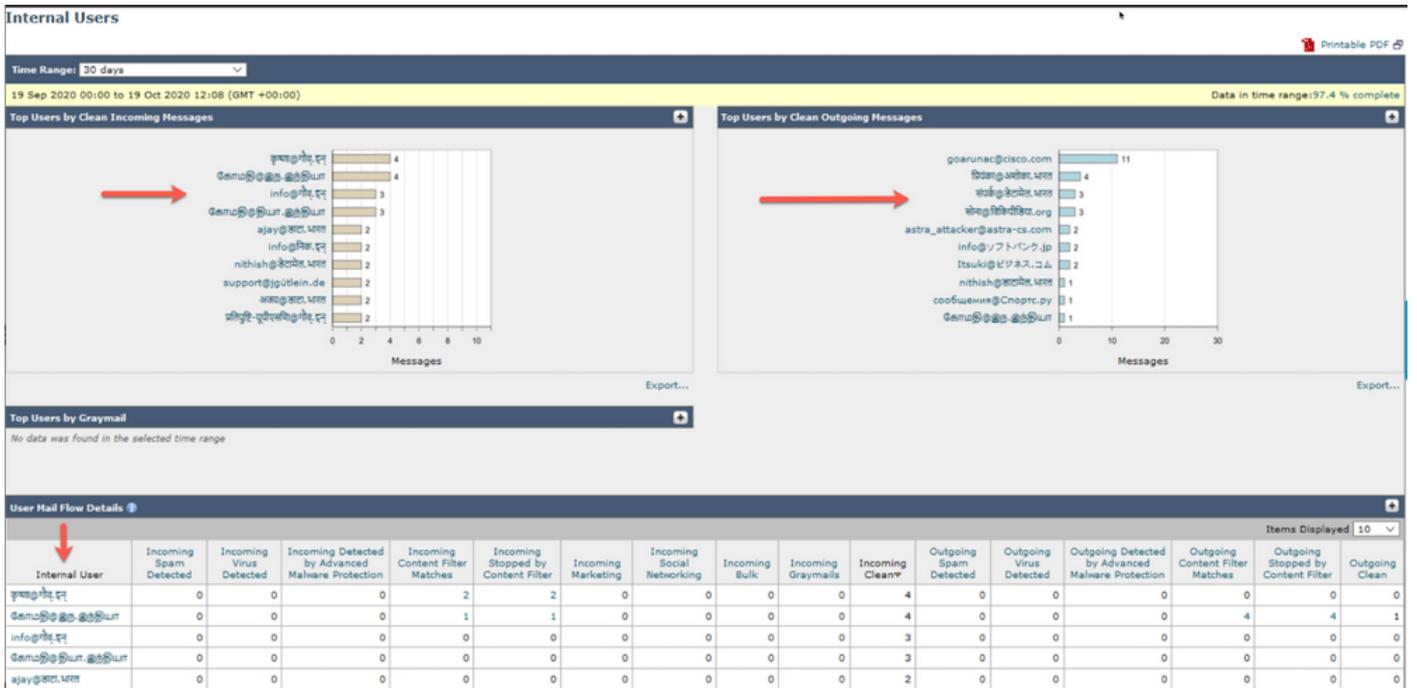
<input type="checkbox"/>	From	Envelope Recipient	To	Subject	Date	Size
<input type="checkbox"/>		anvitha@doosalab.com		[SUSPICIOUS MESSAGE] this is to test policy	10 Feb 2021 16:30 (GMT -06:00)	3.6K
<input type="checkbox"/>		ਅਨਅਵਿਤਾ2@ਜੀਮੇਲ.ਕੋਮ		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 21:49 (GMT -06:00)	7.3K
<input type="checkbox"/>		あなたは誰ですか2@ヤフー.com		this is japanese test 今は17時38分です	09 Feb 2021 21:37 (GMT -06:00)	3.5K
<input type="checkbox"/>		你是誰2@明天.在		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 21:18 (GMT -06:00)	3.4K
<input type="checkbox"/>		你是誰2@明天.在		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 17:13 (GMT -06:00)	7.6K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 17:11 (GMT -06:00)	8.8K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very என்று நம்புகிறேன் for both the countries .	09 Feb 2021 17:02 (GMT -06:00)	4.7K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 17:00 (GMT -06:00)	5.1K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very மூலக்கூறு ಎಂದು ಭಾವಿಸುತ್ತೇವೆ for both the countries.	09 Feb 2021 16:54 (GMT -06:00)	5.2K
<input type="checkbox"/>		anvitha@doosalab.com		this is a test	09 Feb 2021 16:01 (GMT -06:00)	3.3K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very என்று நம்புகிறேன் for both the countries .	09 Feb 2021 15:49 (GMT -06:00)	8.1K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very என்று நம்புகிறேன் for both the countries.	09 Feb 2021 15:41 (GMT -06:00)	8.8K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very आशा for both the countries.	08 Feb 2021 21:53 (GMT -06:00)	5.0K
<input type="checkbox"/>		anvitha@humaaralab.com		Please read as this is very आशा for both the countries.	08 Feb 2021 21:47 (GMT -06:00)	3.9K

NOTE: PVO Quarantine local muestra un comportamiento similar al de Spam Quarantine.

Verificación y resolución de problemas

1) Los informes de ESA y SMA (Secure Email and Web Manager) ahora admiten IDN. Podemos ver nombres de usuario/dominio/dirección de correo electrónico en formato IDN en informes

Vaya a Monitor -> Usuarios internos



2) En **Rastreo de mensajes** podemos ver el nombre de dominio IDN y también filtrar con los dominios IDN/nombres de usuario/dirección de correo electrónico

Search

Available Time Range: 16 Jun 2020 18:00 to 12 Feb 2021 08:19 (GMT -06:00) Data in time range: 87.98% complete

Envelope Sender: Contains

Envelope Recipient:

Subject:

Message Received: Last Day Last Week Custom Range

Start Date: Time: and End Date: Time: (GMT -06:00)

Search messages using advanced criteria

Generated: 12 Feb 2021 08:21 (GMT -06:00) Export All... | Export..

Results Items per page 20

Displaying 1 — 15 of 15 items.

1	11 Feb 2021 13:42:13 (GMT -06:00)	MID: 23579661	HOST: ESA1-EFT (10.0.202.17)	Show Details
SENDER: ಅನ್ನಿತಾ@ಯಾಕೂ, ಜೊತೆ				
RECIPIENT: anvitha@humaaralab.com				
SUBJECT: Please read as this is very				
LAST STATE: Message 23579661 to anvitha@humaaralab.com received remote SMTP respons:				
2	11 Feb 2021 10:13:55 (GMT -06:00)	MID: 23579651	HOST: ESA1-EFT (10.0.202.17)	Show Details
SENDER: ಅನ್ನಿತಾ@ಯಾಕೂ, ಜೊತೆ				
RECIPIENT: anvitha@humaaralab.com				
SUBJECT: Please read as this is very				
LAST STATE: Message 23579651 to anvitha@humaaralab.com received remote SMTP respons:				
3	09 Feb 2021 17:09:49 (GMT -06:00)	MID: 23570342	HOST: ESA1-EFT (10.0.202.17)	Show Details
SENDER: ಅನ್ನಿತಾ@ಯಾಕೂ, ಜೊತೆ				
RECIPIENT: anvitha@humaaralab.com				
SUBJECT: Please read as this is very				
LAST STATE: A new message 23570347 was generated to handle bounce of message 235703-				
4	09 Feb 2021 16:59:11 (GMT -06:00)	MID: 23570318	HOST: ESA1-EFT (10.0.202.17)	Show Details

3) Utilice el comando **grep** o **tail** de CLI para ver "mail_logs" y vemos los dominios IDN en los registros

Mon Feb 8 21:47:11 2021 Info: Start MID 23569633 ICID 148853

Mon Feb 8 21:47:11 2021 Info: MID 23569633 ICID 148853 From:

<@.>

Mon Feb 8 21:47:19 2021 Info: MID 23569633 ICID 148853 RID 0 To: <test@lab.com>

Mon Feb 8 21:47:52 2021 Info: MID 23569633 Subject 'Please read as this is very for both the countries.'

Mon Feb 8 21:47:52 2021 Info: MID 23569633 SDR: Domains for which SDR is requested: reverse DNS host: sample.host.com, helo: lab.com, env-from: ., header-from: Not Present, reply-to: Not Present

Mon Feb 8 21:47:53 2021 Info: MID 23569633 SDR: Consolidated Sender Reputation: Tainted, Threat Category: N/A, Suspected Domain(s) : lab.com. Youngest Domain Age: 3 months 29 days for domain: lab.com

Mon Feb 8 21:47:53 2021 Info: MID 23569633 SDR: Tracker Header : 87dSxFfNYdSiOahrXSUZFOrdpenKiF6J2uKiPf+SFKCtj52hNCpe6LDQ8UFaliGnUDA7FsuXLvHTcaATt6AKG4PWLpwEeo/dcIPBUOdxB48=

Mon Feb 8 21:47:53 2021 Info: MID 23569633 ready 605 bytes from

<@.>

Mon Feb 8 21:47:53 2021 Info: MID 23569633 matched all recipients for per-recipient policy DEFAULT in the inbound table

Mon Feb 8 21:47:53 2021 Info: MID 23569633 interim verdict using engine: CASE spam positive

Mon Feb 8 21:47:53 2021 Info: MID 23569633 using engine: CASE spam positive

Mon Feb 8 21:47:53 2021 Info: ISQ: Tagging MID 23569633 for quarantine

Mon Feb 8 21:47:53 2021 Info: MID 23569633 interim AV verdict using McAfee CLEAN

Mon Feb 8 21:47:53 2021 Info: MID 23569633 interim AV verdict using Sophos CLEAN

Mon Feb 8 21:47:53 2021 Info: MID 23569633 antivirus negative

Mon Feb 8 21:47:53 2021 Info: MID 23569633 AMP file reputation verdict : SKIPPED (no attachment in message)

Mon Feb 8 21:47:53 2021 Info: MID 23569633 using engine: GRAYMAIL negative

Mon Feb 8 21:47:53 2021 Info: MID 23569633 Custom Log Entry: SDR Age is less than 1 Year

Mon Feb 8 21:47:53 2021 Info: MID 23569633 Outbreak Filters: verdict negative

Mon Feb 8 21:47:53 2021 Info: MID 23569633 Message-ID '<d35764\$mf971@esa1.lab.com>'

Mon Feb 8 21:47:53 2021 Info: MID 23569633 queued for delivery

Mon Feb 8 21:47:53 2021 Info: New SMTP DCID 250225 interface 10.0.202.17 address 10.0.201.5 port 6025

Mon Feb 8 21:47:53 2021 Info: DCID 250225 STARTTLS command not supported

Mon Feb 8 21:47:53 2021 Info: Delivery start DCID 250225 MID 23569633 to RID [0] to offbox IronPort Spam Quarantine

Mon Feb 8 21:47:53 2021 Info: Message done DCID 250225 MID 23569633 to RID [0] (external quarantine)

Mon Feb 8 21:47:53 2021 Info: MID 23569633 RID [0] Response 'ok: Message 27293054 accepted'

Mon Feb 8 21:47:53 2021 Info: Message finished MID 23569633 done

Mon Feb 8 21:47:58 2021 Info: DCID 250225 close

Información Relacionada

- [Dispositivo de seguridad Cisco Email Security Appliance - Guías de usuario final](#)
- [Soporte Técnico y Documentación - Cisco Systems](#)