由於金鑰交換/密碼演算法失敗，如何解決SMA和ESA整合問題。

目錄

簡介

本文檔介紹如何解決導致錯誤的安全管理裝置(SMA)和電子郵件安全裝置(ESA)整合故障："*(3, '找不到匹配的金鑰交換演算法。')或"Unexpected EOF on connect"*和其他症狀。

背景資訊

SMA與ESA的連線在首次整合時，SMA為ESA提供以下密碼/金鑰交換演算法：

```
kex_algorithms string: diffie-hellman-group-exchange-sha256,diffie-hellman-group-exchange-sha1,diffie-hellman-group14-sha1,ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521
encryption_algorithms_client_to_server string: aes128-ctr,aes192-ctr,aes256-ctr,aes128-cbc,3des-cbc,blowfish-cbc,cast128-cbc,aes192-cbc,aes256-cbc,rijndael-cbc@lysator.liu.se
encryption_algorithms_server_to_client string: aes128-ctr,aes192-ctr,aes256-ctr,aes128-cbc,3des-cbc,blowfish-cbc,cast128-cbc,aes192-cbc,aes256-cbc,rijndael-cbc@lysator.liu.se
```

建立SMA和ESA連線後，SMA為ESA提供以下密碼/金鑰交換演算法：

```
kex_algorithms string: curve25519-sha256@libssh.org,ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521,diffie-hellman-group-exchange-sha256,diffie-hellman-group-exchange-sha1,diffie-hellman-group14-sha1,diffie-hellman-group1-sha1
encryption_algorithms_client_to_server string [truncated]: aes128-ctr,aes192-ctr,aes256-ctr,arcfour256,arcfour128,aes128-gcm@openssh.com,aes256-gcm@openssh.com,chacha20-poly1305@openssh.com,aes128-cbc,3des-cbc,blowfish-cbc,cast128-cbc,aes192-cbc,aes256-cbc,arcfour,rijndael-cbc@lysator.liu.se
encryption_algorithms_server_to_client string [truncated]: aes128-ctr,aes192-ctr,aes256-ctr,arcfour256,arcfour128,aes128-gcm@openssh.com,aes256-gcm@openssh.com,chacha20-poly1305@openssh.com,aes128-cbc,3des-cbc,blowfish-cbc,cast128-cbc,aes192-cbc,aes256-cbc,arcfour,rijndael-cbc@lysator.liu.se
```

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

問題

從**GUI > Management Appliance > Centralized Services > Security Appliances**或**CLI > applianceconfig**將SMA整合到ESA時存在問題。此問題會在連線時提示錯誤，這是因為ESA缺少某些kex演算法/密碼演算法。

```
1. (3, 'Could not find matching key exchange algorithm.')
2. Error — Unexpected EOF on connect.
```

解決方案

要解決此問題，需要將ESA ssh密碼配置恢復為提供的預設值：

```
lab.esa.com> sshconfig


Choose the operation you want to perform:
- SSHD - Edit SSH server settings.
- USERKEY - Edit SSH User Key settings
- ACCESS CONTROL - Edit SSH whitelist/blacklist
[]> sshd

ssh server config settings:
Public Key Authentication Algorithms:
        rsa1
        ssh-dss
        ssh-rsa
Cipher Algorithms:
        aes128-ctr
        aes192-ctr
        aes256-ctr
        aes128-cbc
        3des-cbc
        blowfish-cbc
        cast128-cbc
        aes192-cbc
        aes256-cbc
        rijndael-cbc@lysator.liu.se
MAC Methods:
        hmac-md5
        hmac-sha1
        umac-64@openssh.com
        hmac-ripemd160
        hmac-ripemd160@openssh.com
        hmac-sha1-96
        hmac-md5-96
Minimum Server Key Size:
        1024
KEX Algorithms:
        diffie-hellman-group-exchange-sha256
        diffie-hellman-group-exchange-sha1
        diffie-hellman-group14-sha1
        diffie-hellman-group1-sha1
        ecdh-sha2-nistp256
        ecdh-sha2-nistp384
        ecdh-sha2-nistp521
```

CLI > sshconfig > sshd在逐步設定中的輸出：

```
[]> setup

Enter the Public Key Authentication Algorithms do you want to use
[rsa1,ssh-dss,ssh-rsa]>

Enter the Cipher Algorithms do you want to use
[aes128-ctr,aes192-ctr,aes256-ctr,aes128-cbc,3des-cbc,blowfish-cbc,cast128-cbc,aes192-
cbc,aes256-cbc,rijndael-cbc@lysator.liu.se]>
```

```
Enter the MAC Methods do you want to use
[hmac-md5,hmac-sha1,umac-64@openssh.com,hmac-ripemd160,hmac-ripemd160@openssh.com,hmac-sha1-
96,hmac-md5-96]>

Enter the Minimum Server Key Size do you want to use
[1024]>

Enter the KEX Algorithms do you want to use
[diffie-hellman-group-exchange-sha256,diffie-hellman-group-exchange-sha1,diffie-hellman-group14-
sha1,diffie-hellman-group1-sha1,ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521]>
```

相關資訊

- Cisco Email Security Appliance — 最終使用手冊
- 技術支援與文件 - Cisco Systems
- 集中策略病毒和爆發隔離的最佳實踐
- 使用SMA設定ESA垃圾郵件隔離區的綜合指南