

在高CPU利用率的TechNote在C170

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Introduction

本文描述CPU利用率和操作Cisco电子邮件安全工具(ESA) C170型号的。

Prerequisites

Requirements

Cisco 建议您了解以下主题：

- 状态详细资料和系统利用率，关于ESA操作

Components Used

本文的信息根据仅ESA C170型号。

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, make sure that you understand the potential impact of any command.

在C170的高CPU利用率

对于ESA C170，获得CPU负载在40%通常不是令人担心的事在某种状况下，并且是正常的。

工具不是完全空闲。工具进行服务级别动作甚而，当不处理电子邮件时。凭CPU负载，这些是可能造成CPU使用情况的一些示例：

- 处理服务更新(反垃圾邮件，抗病毒等等)
- 接受从安全管理工具(SMA)的安全壳SSH连接
- 处理报告数据

Note: C170只有两个CPU。事较小的CPU使用情况类似服务更新和SSH连接有对CPU负载计算的更加巨大的影响在与内置较少的CPU的工具上。

在C170，其中一个CPU利用率顶部原因是服务更新。当ESA处理服务更新时，相关进程被终止并且被重新启动，当更新出现。这能采取重大的CPU。例如，当治军CLI命令**antispamupdate ironport**，Cisco反垃圾邮件引擎(案件)时是更新和重新启动。服务编译规则和更新为更加快速的整体性能。此短暂重新启动在被看到的CPU搅动反射。

Note: 如OS计算CPU负载是最近计算。因此，早先高CPU能影响当前报道的CPU负载，即使CPU使用情况当前不高。这意味着尽管服务更新只发生每5分钟，他们的CPU使用情况能影响在更新之间的间隔计算的CPU负载。

高CPU利用率第二个原因是SSH连接。如果配置ESA使用SMA接受从SMA的SSH连接的集中化报道，检疫等等，有顶上的CPU，当ESA最初被连接到它时。ESA从SMA接受SSH连接变化的费率，但是ESA通常接受在每30秒附近的连接。您可以从认证日志查看此和发现**smaduser**连接：

```
myesa.local> tail authentication
```

```
Press Ctrl-C to stop.
```

```
Wed Apr 12 13:41:06 2017 Info: The user smaduser successfully logged on from 172.16.1.100 by publickey based authentication using an SSH connection.
```

```
Wed Apr 12 13:41:26 2017 Info: The user smaduser successfully logged on from 172.16.1.100 by publickey based authentication using an SSH connection.
```

```
Wed Apr 12 13:41:44 2017 Info: The user smaduser successfully logged on from 172.16.1.100 by publickey based authentication using an SSH connection.
```

```
Wed Apr 12 13:42:01 2017 Info: The user smaduser successfully logged on from 172.16.1.100 by publickey based authentication using an SSH connection.
```

一个最终原因考虑，当查看高CPU利用率时是处理的工具报告数据。而不处理电子邮件，ESA继续处理报告数据。例如，系统负载权值为系统容量报告被处理。此外，ESA执行报告**纵向分配**允许报道的数据库依然是在适当的尺寸。当月度纵向分配发生时，这些报告的纵向分配本月初是最重大的。

最后一行是CPU利用率40%为C170不是异常的，即使工具是空闲没有电子邮件消息处理。如果CPU负载长时间，被固定在100% ESA管理员应该只关系到。查看**状态详细资料**的输出，如镜像所显示的系统资源**测量仪**和状态日志的日志输出。

从**状态详细资料**的示例：

Gauges:	Current
System	
RAM Utilization	1%
Overall CPU load average	5%
CPU Utilization	
MGA	0%
Anti-Spam	0%
Anti-Virus	0%
Reporting	0%
Quarantine	0%
Disk I/O Utilization	0%
Resource Conservation	0
Logging Disk Usage	2%
Logging Disk Available	182G
Connections	
Current Inbound Conn.	0
Current Outbound Conn.	0
Queue	
Active Recipients	0
Unattempted Recipients	0
Attempted Recipients	0
Messages In Work Queue	0
Destinations In Memory	3
Kilobytes Used	0
Kilobytes Free	8,388,608
Messages In Quarantine	
Policy, Virus and Outbreak	0
Kilobytes In Quarantine	
Policy, Virus and Outbreak	0

从状态日志的示例：

```
myesa.local> tail status
```

Press Ctrl-C to stop.

```
Wed Apr 12 14:03:06 2017 Info: Status: CPULd 0 DskIO 0 RAMUtil 1 QKUsd 0 QKFre 8388608 CrtMID 23
CrtICID 8 CrtDCID 5 InjMsg 9 InjRcp 9 GenBncRcp 0 RejRcp 0 DrpMsg 0 SftBncEvt 0 CmpRcp 8
HrdBncRcp 0 DnsHrdBnc 0 5XXHrdBnc 0 FltrHrdBnc 0 ExpHrdBnc 0 OtrHrdBnc 0 DlvRcp 1 DelRcp 7
GlbUnsbHt 0 ActvRcp 0 UnatmptRcp 0 AtmptRcp 0 CrtCncIn 0 CrtCncOut 0 DnsReq 16 NetReq 6 CchHit
16 CchMis 6 CchEct 0 CchExp 2 CPUTTm 3139 CPUETm 4382176 MaxIO 350 RAMUsd 74632178 MMLen 0
DstInMem 3 ResCon 0 WorkQ 0 QuarMsgs 0 QuarQKUsd 0 LogUsd 2 SophLd 0 BMLd 0 CASELd 0 TotalLd 7
LogAvail 182G EuQ 0 EuqRls 0 CmrkLd 0 McafLd 0 SwIn 0 SwOut 0 SwPgIn 0 SwPgOut 0 RptLd 0 QtnLd 0
EncrQ 0 InjBytes 5891
```

```
Wed Apr 12 14:04:06 2017 Info: Status: CPULd 0 DskIO 0 RAMUtil 1 QKUsd 0 QKFre 8388608 CrtMID 23
CrtICID 8 CrtDCID 5 InjMsg 9 InjRcp 9 GenBncRcp 0 RejRcp 0 DrpMsg 0 SftBncEvt 0 CmpRcp 8
HrdBncRcp 0 DnsHrdBnc 0 5XXHrdBnc 0 FltrHrdBnc 0 ExpHrdBnc 0 OtrHrdBnc 0 DlvRcp 1 DelRcp 7
GlbUnsbHt 0 ActvRcp 0 UnatmptRcp 0 AtmptRcp 0 CrtCncIn 0 CrtCncOut 0 DnsReq 16 NetReq 6 CchHit
16 CchMis 6 CchEct 0 CchExp 2 CPUTTm 3139 CPUETm 4382236 MaxIO 350 RAMUsd 74632178 MMLen 0
```

DstInMem 3 ResCon 0 WorkQ 0 QuarMsgs 0 QuarQKUsd 0 LogUsd 2 SophLd 0 BMLd 0 CASELd 0 TotalLd 5
LogAvail 182G EuQ 0 EuqRls 0 CmrkLd 0 McafLd 0 SwIn 0 SwOut 0 SwPgIn 0 SwPgOut 0 RptLd 0 QtnLd 0
EncrQ 0 InjBytes 5891

Wed Apr 12 14:05:06 2017 Info: Status: **CPULd 45** DskIO 0 RAMUtil 1 QKUsd 0 QKFre 8388608 CrtMID
23 CrtICID 8 CrtDCID 5 InjMsg 9 InjRcp 9 GenBncRcp 0 RejRcp 0 DrpMsg 0 SftBncEvt 0 CmpRcp 8
HrdBncRcp 0 DnsHrdBnc 0 5XXHrdBnc 0 FltrHrdBnc 0 ExpHrdBnc 0 OtrHrdBnc 0 DlvRcp 1 DelRcp 7
GlbUnsbHt 0 ActvRcp 0 UnatmptRcp 0 AtmptRcp 0 CrtCncIn 0 CrtCncOut 0 DnsReq 16 NetReq 6 CchHit
16 CchMis 6 CchEct 0 CchExp 2 CPUTTm 3139 CPUETm 4382296 MaxIO 350 RAMUsd 74632122 MMLen 0
DstInMem 3 ResCon 0 WorkQ 0 QuarMsgs 0 QuarQKUsd 0 LogUsd 2 SophLd 0 BMLd 0 CASELd 0 TotalLd 5
LogAvail 182G EuQ 0 EuqRls 0 CmrkLd 0 McafLd 0 SwIn 0 SwOut 0 SwPgIn 0 SwPgOut 0 RptLd 0 QtnLd 0
EncrQ 0 InjBytes 5891

Wed Apr 12 14:06:06 2017 Info: Status: **CPULd 0** DskIO 0 RAMUtil 1 QKUsd 0 QKFre 8388608 CrtMID 23
CrtICID 8 CrtDCID 5 InjMsg 9 InjRcp 9 GenBncRcp 0 RejRcp 0 DrpMsg 0 SftBncEvt 0 CmpRcp 8
HrdBncRcp 0 DnsHrdBnc 0 5XXHrdBnc 0 FltrHrdBnc 0 ExpHrdBnc 0 OtrHrdBnc 0 DlvRcp 1 DelRcp 7
GlbUnsbHt 0 ActvRcp 0 UnatmptRcp 0 AtmptRcp 0 CrtCncIn 0 CrtCncOut 0 DnsReq 16 NetReq 6 CchHit
16 CchMis 6 CchEct 0 CchExp 2 CPUTTm 3139 CPUETm 4382356 MaxIO 350 RAMUsd 74632178 MMLen 0
DstInMem 3 ResCon 0 WorkQ 0 QuarMsgs 0 QuarQKUsd 0 LogUsd 2 SophLd 0 BMLd 0 CASELd 0 TotalLd 15
LogAvail 182G EuQ 0 EuqRls 0 CmrkLd 0 McafLd 0 SwIn 0 SwOut 0 SwPgIn 0 SwPgOut 0 RptLd 0 QtnLd 0
EncrQ 0 InjBytes 5891

Related Information

- [Cisco电子邮件安全工具C170](#)
- [Technical Support & Documentation - Cisco Systems](#)