每个表达式扫描错误的最大工作量表示什么？

目录

简介

本文档介绍错误消息“扫描问题：超出每个表达式/数据限制的最大工作量”，以及如何解决由此引起的问题。

背景信息

错误消息“Scanning Problem:“超出每个表达式的最大工作/数据限制”可能是由于字典条目、内容过滤器或具有许多正则表达式(RegEx)匹配的邮件过滤器。出现此错误的原因如下：

- 当词典中列出大量条目时。
- 包含可变长度匹配的正则表达式(RegEx)(示例：**.***、**.+**或**.{5,}**)。

大型词典和广泛匹配的正则表达式需要大量系统资源，应避免。

错误消息的“最大工作次数”示例

邮件日志

```
Thu Feb 15 12:01:20 2021 Warning: MID #######,
Message Scanning Problem: maximum work per expression/data limit exceeded
```

邮件跟踪

```
Message ####### encountered message scanning error: maximum work per expression/data limit
exceeded
```

应用故障

```
An application fault occurred: ('egg/filters.py expand_short_url|1570',
"<type 'exceptions.RuntimeError'>", 'maximum work per expression/data limit exceeded',
'[egg/omh.py queue_worker_thread|3733] [egg/omh.py process_item|4209]
[egg/omh.py pass_spamcheck|6402] [egg/omh.py update_url_reporting_info|4951]
[egg/filters.py get_web_info|1810] [egg/filters.py fetch_urlinfo|1480]
[egg/filters.py get_url_info|1658] [egg/filters.py get_expanded_url_list|1606]
[egg/filters.py expand_short_url|1570]') MID: #######
```

故障排除

词典

通过GUI

1. 登录您的安全电子邮件网关的GUI。
2. 将鼠标悬停在**邮件策略上。**
3. 单击**Dictionaries**。
4. 查看词典和条目。

通过CLI

```
> dictionaryconfig

Currently configured content dictionaries:
1. Test

Choose the operation you want to perform:
- NEW - Create a new content dictionary.
- EDIT - Modify a content dictionary.
- DELETE - Remove a content dictionary.
- RENAME - Change the name of a content dictionary.
- CLUSTERSET - Set how content dictionaries are configured in a cluster.
- CLUSTERSHOW - Display how content dictionaries are configured in a cluster.
[]>
```

查看词典和条目。

内容过滤器

通过GUI

1. 登录您的安全电子邮件网关的GUI。
2. 将鼠标悬停在**邮件策略**上。
3. 单击“**传入内容过滤器**”或“**传出内容过滤器**”。
4. 查看过滤器。

通过CLI

```
> policyconfig

Would you like to configure Incoming Mail Policy or Outgoing Mail Policies or Match Headers
Priority?
1. Incoming Mail Policies
2. Outgoing Mail Policies
3. Match Headers Priority
[1]> 1 <- Enter 1 or 2

Incoming Mail Policy Configuration
Name: Anti-Spam: Anti-Virus: Advanced Malware Protection: Graymail: Content Filter:
Outbreak Filters: Advanced Phishing Protection
----- ------------ ----------- --------------------------- ------------ -----------------
---------------- ---------------------------
DEFAULT Off Sophos Off Off Enabled
Retention Time: N/A

Virus: 15 minutes

Choose the operation you want to perform:
- NEW - Create a new policy
- EDIT - Edit an existing policy
- PRINT - Print all policies
- FILTERS - Edit content filters
- CLUSTERSET - Set how Incoming Mail Policies are configured in a cluster
- CLUSTERSHOW - Display how Incoming Mail Policies are configured in a cluster
[]> filters

Defined filters:
1. example_filter_one
2. example_filter_two

Choose the operation you want to perform:
- NEW - Create a new filter
- EDIT - Edit an existing filter
- DELETE - Delete a filter
- PRINT - Print all filters
- MOVE - Reorder a filter
- RENAME - Rename a filter
```

查看过滤器。如果需要，请对传出内容过滤器重复上述步骤。

邮件过滤器

通过GUI

不可用。

通过CLI

```
> filters

Choose the operation you want to perform:
- NEW - Create a new filter.
- DELETE - Remove a filter.
- IMPORT - Import a filter script from a file.
- EXPORT - Export filters to a file
- MOVE - Move a filter to a different position.
```

```
- SET - Set a filter attribute.
- LIST - List the filters.
- DETAIL - Get detailed information on the filters.
- LOGCONFIG - Configure log subscriptions used by filters.
- ROLLOVERNOW - Roll over a filter log file.
- CLUSTERSET - Set how filters are configured in a cluster.
- CLUSTERSHOW - Display how filters are configured in a cluster.
[]> list

Num Active Valid Name
1 Y Y example_message_filter
```

查看过滤器。

相关信息

- 思科安全电子邮件网关最终用户指南
- 思科安全电邮网关版本说明
- **技术支持和文档 - Cisco Systems**