APIC-EM 1.3. — 证书生成 — 通过API删除

目录

<u>简介</u>

<u>背景信息</u> <u>您如何了解设备的当前状态?</u> <u>您如何确保APIC-EM是否也具有相同的证书,或者APIC-EM是否理解相同的证书?</u> <u>如何从设备中删除证书?</u> <u>如何从APIC - EM应用证书?</u> <u>有时,APIC-EM有证书,但设备没有。您如何解决它?</u>

简介

本文档介绍如何使用思科应用策略基础设施控制器(APIC) — 分机移动(EM)API创建 — 删除证书。 使用IWAN时,它都会自动配置。但是,IWAN目前没有任何流从过期的证书中自动恢复设备。

好的部分是,在RestAPI方面,自动化有某种流。但是,该自动化是按设备进行的,并且它需要有 关设备的一些信息。IWAN流之外的RestAPI流使用一些机制来自动执行设备的证书。

背景信息

常见客户拓扑。

辐条 — 中心 — APIC_EM [控制器]

以下是三种情况:

- 证书已过期。
- 证书未续约。
- 证书完全不可用。

您如何了解设备的当前状态?

运行命令Switch# sh cry pki cert。

```
HUB2#sh cry pki cert
Certificate
  Status: Available
  Certificate Serial Number (hex): 3C276CE6B6ABFA8D
  Certificate Usage: General Purpose
 Issuer:
   cn=sdn-network-infra-subca
  Subject:
   Name: HUB2
   cn=ASR1001 SSI161908CX sdn-network-infra-iwan
   hostname=HUB2
 Validity Date:
   start date: 06:42:03 UTC Mar 28 2017
        date: 07:42:03 UTC Mar 28 2017
    end
 Associated Trustpoints: sdn-network-infra-iwan
CA Certificate
 Status: Available
  Certificate Serial Number (hex): 04
  Certificate Usage: General Purpose
 Issuer:
   cn=ca
 Subject:
   cn=sdn-network-infra-subca
 Validity Date:
   start date: 06:42:03 UTC Mar 28 2017
   end date: 07:42:03 UTC Mar 28 2017
 Associated Trustpoints: sdn-network-infra-iwan
```

如果您看到,有两个证书,您需要在此处检查关联信任点。

结束日期通常为一年,应晚于开始日期。

如果它是sdn-network-infra-iwan,则表示从APIC-EM注册了ID和CA证书。

您如何确保APIC-EM是否也具有相同的证书,或者APIC-EM是否 理解相同的证书?

a.从设备显示版本并收集序列号:

If you require further assistance please contact us by sending email to export@cisco.com. License Type: RightToUse License Level: adventerprise Next reload license Level: adventerprise cisco ASR1001 (1RU) processor (revision 1RU) with 1062861K/6147K bytes of memory. <u>Processor board ID SSI 61908CX</u> 4 Gigabit Ethernet interfaces 32768K bytes of non-volatile configuration memory. 4194304K bytes of physical memory. 7741439K bytes of eUSB flash at bootflash:.

Configuration register is 0x0

借助此序列号,您可以执行APIC-EM查询,以了解APIC-EM对此设备的看法。

b.导航至API文档。

CISCO DNA Center						admin 📋 💕 💿
	-1	Design, A	NA Cer	ter I	1-1-	APIC-EM Settings Settings New Controller Admin Controller Management Audit Logs
Applications				Q	Search Applications	Re Audit Logs New
🔀 Design	80	Provision	🛃 Policy			Re User Charge Password
Tools						
\$	m	9	:=	*		
Discovery	Dashboard	Device Inventory	Host Inventory	Topology	Path Trace	
	∞	€,	<u>a,</u>			0

c.点击公钥基础设施(PKI)代理。

d.点击First API(第一个API),这将帮助我们从API端了解状态。

Policy Administration cct /certificate-authonty/idcert/ca/[id]/[type] getDefaultCaPem Role Based Access Control Scheduler updateDefaultCaPem Scheduler evt /certificate-authonty/update/[id]/[type] updateDefaultCaPem Stite Profile Service evt /certificate-authonty/update/[id]/[type] updateDefaultCaPem Swim Task cct /trust-point pk/TrustPointLisGet Topology default Title pk/TrustPointLisGet pk/TrustPointLisGet Post /trust-point/count pk/TrustPointLisGet cct Cert /trust-point/pcis12/[trustPointd]/[token] pk/TrustPointLisGet OELETE /trust-point/cerial-number/[serialNumber] pk/TrustPointLisGet Cert /trust-point/serial-number/[serialNumber] pk/TrustPointCetByDeviceSN Cert /trust-point/serial-number/[serialNumber] pk/TrustPointGetByDeviceSN Cert /trust-point/[serial-number/[serialNumber] pk/TrustPointGetByDeviceSN Cert /trust-point/[serialNumber] getCertScateBiteList Cert /trust-point/[serialNumber] getCertScateBiteList	ad
Scheduler Put /certificate-authority/update/(ig)/(type) updateDefaultCaPem Ste Profile Service Put /certificate-authority/(ig)/(type) updateDefaultCaPem Task Icertificate-authority/(ig)/(type) updateDefaultCaPem GET /trust-point pkiTrustPointListGet GET /trust-point pkiTrustPointListGet GET /trust-point/count pkiTrustPointListGet GET /trust-point/pkcs12/(trustPointid)/(token) pkiTrustPointListGet DELETE /trust-point/serial-number/(serialNumber) pkiTrustPointGetByDeviceSN GET /trust-point/serial-number/(serialNumber) pkiTrustPointGetByDeviceSN <td></td>	
Site Profile Service Put /certificate-authority/{id}/{type} updateDefaultCaPem Task GET /trust-point pkiTrustPointLisGet Yours-point Post /trust-point pkiTrustPointLisGet Post /trust-point pkiTrustPointLisGet pkiTrustPointLisGet GET /trust-point pkiTrustPointLisGet pkiTrustPointLisGet GET /trust-point/count pkiTrustPointLisGet pkiTrustPointPiccs12/(trustPointle)/{token} GET /trust-point/serial-number/[serialNumber] pkiTrustPointDeleteByDeviceSN pkiTrustPointDeleteByDeviceSN GET /trust-point/serial-number/[serialNumber] pkiTrustPointGetByDeviceSN getCertificateBriefList GET /trust-point/startindex)/(recordsToReturn) getCertificateBriefList pkiTrustPointSetByDeviceSN	
Task Topology default Title GET /trust-point pkiTrustPointListGet POST /trust-point pkiTrustPointListGet GET /trust-point pkiTrustPointListGet GET /trust-point/count pkiTrustPointListGet GET /trust-point/count pkiTrustPointListGet GET /trust-point/pkcs12/(trustPointid)/(token) pkiTrustPointDeleteByDeviceSN DELETE /trust-point/serial-number/(serialNumber) pkiTrustPointDeleteByDeviceSN GET /trust-point/serial-number/(serialNumber) pkiTrustPointGetByDeviceSN	
default Title Post / trust-point pkiTrustPointPost GET / trust-point/count pkiTrustPointListGet GET / trust-point/pkcs12/(trustPointid)/(token) pkiTrustPointPkcs12Download DELETE / trust-point/serial-number/(serialNumber) pkiTrustPointGetByDeviceSN GET / trust-point/serial-number/(serialNumber) pkiTrustPointGetByDeviceSN	
GET /trust-point/count pkiTrustPointListGet GET /trust-point/pkcs12/trustPointld)/{token} pkiTrustPointPkcs12Download DELETE /trust-point/serial-number/{serialNumber} pkiTrustPointDeleteByDeviceSN GET /trust-point/serial-number/{serialNumber} pkiTrustPointGetByDeviceSN GET /trust-point/serial-number/{serialNumber} pkiTrustPointGetByDeviceSN GET /trust-point/serial-number/{serialNumber} pkiTrustPointGetByDeviceSN GET /trust-point/serial-number/{serialNumber} getCertificateBriefList	
GET /trust-point/pkcs12/(trustPointid)/(token) pkiTrustPointPkcs12Download DELETE /trust-point/serial-number/(serialNumber) pkiTrustPointDeleteByDeviceSN GET /trust-point/serial-number/(serialNumber) pkiTrustPointGetByDeviceSN GET /trust-point/serial-number/(serialNumber) pkiTrustPointGetByDeviceSN GET /trust-point/serial-number/(serialNumber) getCettificateBifetList GET /trust-point/serial-number/(serialNumber) getCettificateBifetList	
DELETE /trust-point/serial-number/{serialNumber} pkiTrustPointDeleteByDeviceSN GET /trust-point/serial-number/{serialNumber} pkiTrustPointGetByDeviceSN GET /trust-point/startIndex}/{recordsToReturn} getCertificateBriefList	
GET /trust-point/serial-number/{serialNumber} pkiTrustPointGetByDeviceSN GET /trust-point/startIndex)/{recordsToReturn} getCettificateBriefList	
GET /trust-point/(startindex)/(recordsToReturn) getCettificateBriefList	
petriel (anst-bound) bis instr-ound) bis instr-ound)	
POST //rust-point/{trustPoint/d} pkiTrustPoint/	

单击"GET(**获取)"。**

在一个复选框上,点击从设备的show version输出收集的序列号。

单击"Try out!(试用!)"。

将输出值与设备的sh crp pki cert输出进行比较。

如何从设备中删除证书?

有时,在设备上,证书存在,而在APIC-EM中,证书不存在。因此,运行GET API**时**会收到错误消 息。

Try it out! Hide Response
Request URL
https://10.78.106.45/api/v1/trust-point/serial-number/ <mark>551161908CX</mark>
Response Body
(
"response": { "errorCode": "BadRequest",
"message": "get trust-point by serial-number: Failed to get trust-point list for serial-number SSI161908CX",
},
"version": "1.0"
1

解决方案只有一个,即从设备中删除证书:

a.Switch# show run |我信任点



运行命令Switch# no crypto pki trustpoint <trustpoint name>。

```
HUB2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
HUB2(config)#no crypto pki trustpoint sdn-network-infra-iwan
% Removing an enrolled trustpoint will destroy all certificates
received from the related Certificate Authority.
Are you sure you want to do this? [yes/no]: yes
% Be sure to ask the CA administrator to revoke your certificates.
HUB2(config)#
此命令删除与所选信任点关联的设备上的所有证书。
重新检查证书是否已删除。
使用下列命令: Switch# sh cry pki cert。
它不应显示已删除的sdn信任点。
b.删除密钥:
在设备上运行命令: Switch# sh cry key mypubkey all。
您将看到密钥名称以sdn-network-infra开头。
```

删除密钥的命令:

HUB2(config)#cry key zeroize rsa sdn-network-infra-iwan % Keys to be removed are named 'sdn-network-infra-iwan'. % All router certs issued using these keys will also be removed. Do you really want to remove these keys? [yes/no]: yes HUB2(config)#

2.确保连接到设备的APIC-EM接口应为Ping。

APIC-EM可能有两个接口,一个是公共接口,另一个是私有接口。在这种情况下,请确保与设备通 信的APIC-EM接口彼此ping。

```
HUB2#ping 10.10.10.10
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.10.10.10, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/1 ms
HUB2#
```

如何从APIC - EM应用证书?

在APIC-EM下,点击API文档并选择PKI代理后,此选项可用。

POST/trust-point



pkiTrustPointInput	("platfamid":"ASR1001".	pkiTrustPointInput body	Model Model Schema
Parameter	Value	Description Para	meter Type Data Type
Parameters			
Response Conte	nt Type: application/json		
6.			
faskld {			
url (string, optiona	al)		
askid (Taskid on	tional		
response (Taskid	otional). Response, optional)		
faskidResult {			
Model Model Sc	hema		
respense ciese			

Autoritediane"."sdn.network-infra-iwan". "entityType"."router". "entityName"."HUB2" J Parameter content type: application/json T serialNumber (string): Devices serial-number, enttlyName (string): Devices hostname, id (string, optional): Trust-point identification. Automatically generated, platformId (string): Platform identification. Eg. ASR1000, trustProfileName (string): Name of trust-profile (must already exist). Default sch-network-infra-ivan, entitlyType (string, optional): Available options: router.

{

"platformId":"ASR1001",

"serialNumber":"SSI161908CX",

"trustProfileName":"sdn-network-infra-iwan", "entityType":"router", "entityName":"HUB2"

}

- """"
- •
- show version

•

• APIC-EMAPIC-EM

Try it out

{	
"response": {	
"taskId": "la395ed.	730-43fa-9527-327ed3e6e12b",
"url": "/api/v1/ta:	1a395ed12730-43fa-9527-327ed3e6e12b"
},	
"version": "1.0"	
}	
spanse Code	
202	
202	
202	
sponse Headers	cache",
sponse Headers "Pragma": "no-cache, "Content-Security-Pol	cache", ": "style-src 'self' 'unsafe-inline'; script-src 'self' 'unsafe-eval' 'unsafe-inline' 'nonce-2dcc163f-98f3-45e2-t
<pre>sponse Headers "Pragma": "no-cache, "Content-Security-Pol "X-Frame-Options": "Southers": "Souther</pre>	cache", ": "style-src 'self' 'unsafe-inline'; script-src 'self' 'unsafe-eval' 'unsafe-inline' 'nonce-2dcc163f-98f3-45e2-t DRIGIN, SAMEORIGIN",
02 sponse Headers "Pragma": "no-cache, "Content-Security-Pol "X-Frame-Options": "S "Date": "Tue, 28 Mar	cache", ": "style-src 'self' 'unsafe-inline"; script-src 'self' 'unsafe-eval' 'unsafe-inline' 'nonce-2dcc163f-98f3-45e2-b ORIGIN, SAMEORIGIN", 7 10:10:06 GMT",
02 sponse Headers "Pragma": "no-cache, "Content-Security-Pol "X-Frame-Options": "S "Date": "Tue, 28 Mar "Strict-Transport-Sec	cache", ": "style-src 'self' 'unsafe-inline'; script-src 'self' 'unsafe-eval' 'unsafe-inline' 'nonce-2dcc163f-98f3-45e2-b ORIGIN, SAMEORIGIN", 7 10:10:06 GMT", ty": "max-age=31536000; includeSubDomains, max-age=31536000; includeSubDomains",
"Pragma": "no-cache, "Content-Security-Pol "X-Frame-Options": "S. "Date": "Tue, 28 Mar "Strict-Transport-Sec "Content-Type": "appl	cache", ": "style-src 'self' 'unsafe-inline'; script-src 'self' 'unsafe-eval' 'unsafe-inline' 'nonce-2dcc163f-98f3-45e2-t ORIGIN, SAMEORIGIN", 7 10:10:06 GMT", ty": "max-age=31536000; includeSubDomains, max-age=31536000; includeSubDomains", tion/json;charset=UTF-8",
"Pragma": "no-cache, "Content-Security-Pol "X-Frame-Options": "S "Date": "Tue, 28 Mar "Strict-Transport-Sec "Content-Type": "appl "Access-Control-Allow "Cache-Control-Allow	cache", ": "style-src 'self' 'unsafe-inline"; script-src 'self' 'unsafe-eval' 'unsafe-inline' 'nonce-2dcc163f-98f3-45e2-t ORIGIN, SAMEORIGIN", 7 10:10:06 GMT", ty": "max-age=31536000; includeSubDomains, max-age=31536000; includeSubDomains", tion/json;charset=UTF-8", igin": "https://10.78.106.45", he no.store no.store"
202 Esponse Headers ("Pragma": "no-cache, "Content-Security-Pol "X-Frame-Options": "S "Date": "Tue, 28 Mar "Strict-Transport-Sec "Content-Type": "appl "Access-Control-Allow "Cache-Control": "no- "Transfer-Encoding":	cache", ": "style-src 'self' 'unsafe-inline"; script-src 'self' 'unsafe-eval' 'unsafe-inline' 'nonce-2dcc163f-98f3-45e2-t ORIGIN, SAMEORIGIN", 7 10:10:06 GMT", ty": "max-age=31536000; includeSubDomains, max-age=31536000; includeSubDomains", tion/json;charset=UTF-8", igin": "https://10.78.106.45", he, no-store, no-cache, no-store", unked".
<pre>202 esponse Headers "Pragma": "no-cache, "Content-Security-Pol "X-Frame-Options": "S "Date": "Tue, 28 Mar "Strict-Transport-Sec "Content-Type": "appl "Access-Control-Allow "Cache-Control": "no- "Transfer-Encoding": "Access-Control-Allow</pre>	cache", ": "style-src 'self' 'unsafe-inline'; script-src 'self' 'unsafe-eval' 'unsafe-inline' 'nonce-2dcc163f-98f3-45e2-t ORIGIN, SAMEORIGIN", 7 10:10:06 GMT", ty": "max-age=31536000; includeSubDomains, max-age=31536000; includeSubDomains", tion/json;charset=UTF-8", igin": "https://10.78.106.45", he, no-store, no-cache, no-store", unked", edentials": "false"

APIC-EM IDGET API CALL

<u>GET/trust-point/serial-number/{serialNumber}</u> — 查询

	st-point/serial-number/{serialNum	ber)		pk/TrustPointGetByDeviceSN
	De la			
Implementat	on Notes			
This method i	s used to return a specific trust-poin	t by its device serial-number		
Response Ci	305			
Model Mode	i Schema			
PkiTrustPoint version (strir response (P) PkiTrustPoint serialNumbe entityName id (string, opt platformid (s trustProfileN entityType () networkDev certificateAu	Result (ig. optional), is/TrustPoint, optional) (ir (string): Devices Serial-number, string): Devices hostname, ional): Trust-point identification. Automatic tring): Platform identification. Eg. ASR100 kame (utring): Name of trust-profile (must a tring, optional): Available options: router, 1 iceld (string, optional): Device identificatio thorityld (string, optional): CA identificatio dddress (string, optional): IP address dev (object contineal)	ally generated. 6. inready exist): Default: sdn-network-infra-iwan. iwitch: Currently not used. n. Currently not used. on: Automatically populated. ice uses to connect to APIC-EM. Eg. Proxy server IP add	tress. Automatically popula	ifed if not set.
attributeinfo	(outro, operation)			
controllerip/ attributeinfo	intent Type: application/json			
controllerip attributeInfo) Response Co Parameters	intent Type: application/json			
controllerip attributeInfo) Response Co Parameters Parameter	value	Description	Parameter Type	Dela Type

APIC-EM

Response Body		
{		
"response": {		
"platformId": "ASR1001",		
"serialNumber": "SSI161908CX",		
"trustProfileName": "sdn-networ	-infra-iwan",	
"entityName": "HUB2",		
"entityType": "router",		
"certificateAuthorityId": "f0bd	040-3f04-4e44-94d8-de97b8829e8d",	
"attributeInfo": {},		
"id": "2b832bf6-9061-44bd-a773-	b5256e544fb"	
Ъ		
"version": "1.0"		
}		
	Ą	
Response Code		
200		

POST/trust-point/{trustPointId} // trustPointId需要从GET序列号查询复制

{"响应": { "platformId":"ASR1001"、"序列号": "SSI161908CX"、"trustProfileName":"sdn-networkinfra-iwan", "entityName":"HUB2"、"entityType":"router"、"certificateAuthorityId":"f0bd5040-3f04-4e44-94d8-de97b8829e8d", "attributeInfo":{}, "id": "c4c7d612-9752-4be5-88e5-e2b6f137ea13" },"version":"1.0" }

\bigcap		
POST	/trust-point/{trustPointId}	pkiTrustPointPush
GET	/trust-point/{trustPointId}	pkiTrustPointGet
GET	/trust-point/{trustPointId}/config	pkiTrustPointConfigGet
GET	/trust-point/{trustPointid}/downloaded	checkPKCS12Downloaded

[BASE URL: https://10.78.106.45/abi/v1/abi-docs/oki-broker-service . API VERSION: 1.0]

irameter Va	alue	Description	Parameter Type	Data Type
trustPointId 2	b832bf6-9061-44bd-a773-fb5256e544fb	Trust-point ID	path	string
rror Status Code	S			
HTTP Status Code	Reason			
200	The request was successful. The result is contain	ed in the response body.		
201	The POST/PUT request was fulfilled and a new r	esource has been created. Information about	the resource is in the response bod	у.
202	The request was accepted for processing, but the	e processing has not been completed.		
284	The request was successful, however no content	was returned.		
206	The GET request included a Range Header, and the server responded with the partial content matching the range.			
400	The client made a request that the server could not understand (for example, the request syntax is incorrect).			
401	The client's authentication credentials included w	ith the request are missing or invalid.		
403	The server recognizes the authentication creden	ials, but the client is not authorized to perform	this request.	
484	The client made a request for a resource that do	es not exist.		
500	The server could not fulfill the request.			
501	The server has not implemented the functionality	required to fulfill the request.		
503	The server is (temporarily) unavailable.			
584	The server did not respond inside time restriction	s and timed-out.		
489	The target resource is in a conflicted state (for ex	ample, an edit conflict where a resource is bei	ng edited by multiple users). Retryir	g the request later might succeed.
415	The client sent a request body in a format that th	e server does not support (for example, XML t	o a server that only accepts JSON)	

响应成功消息:

Try it out! Hide Response	
Request URL	
https://10.78.106.45/api/v1/trust-point/2b832bf6-9061-44bd-a773-fb5256e544fb	
Response Body	
<pre>{ "response": { "taskId":]"f10022bd-8f45-4597-8160-bcc07fd55898", "url": "/api/v1/task/f10022bd-8f45-4597-8160-bcc07fd55898" }, "version": "1.0" }</pre>	
Response Code	
202	
Response Headers	

```
HUB2#sh cry pki cert
Certificate
  Status: Available
  Certificate Serial Number (hex): 2AD39646370CACC7
  Certificate Usage: General Purpose
  Issuer:
   cn=sdn-network-infra-ca
  Subject:
   Name: HUB2
   cn=ASR1001 SSI161908CX sdn-network-infra-iwan
   hostname=HUB2
  Validity Date:
    start date: 10:00:07 UTC Mar 28 2017
    end
         date: 10:00:07 UTC Mar 28 2018
    renew date: 10:00:06 UTC Jan 14 2018
  Associated Trustpoints: sdn-network-infra-iwan
CA Certificate
  Status: Available
  Certificate Serial Number (hex): 5676260082D447A3
  Certificate Usage: Signature
  Issuer:
   cn=sdn-network-infra-ca
  Subject:
   cn=sdn-network-infra-ca
  Validity Date:
    start date: 09:20:26 UTC Mar 28 2017
    end date: 09:20:26 UTC Mar 27 2022
 Associated Trustpoints: sdn-network-infra-iwan
```

HUB2#

有时,APIC-EM有证书,但设备没有。您如何解决它?

APIC-EM APIC-EM ""

DELETE/trust-point/serial-number/{serialNumber} - Delete。

GET	/trust-point/count	pkiTrustPeintListGet
GET	/trust-point/pkcs12/{trustPointid}//token}	pkiTrustPointPkcs12Download
00.575	/trust-point/serial-number/(serialNumber)	pkiTrustPointDeleteByDeviceSN
GET	/trust-point/serial-number/(serialNumber)	pk/TrustPointGetByDeviceSN
This n	nethod is used to return a specific trust-point by its device serial-number once Class	
Mode	Model Schema	
PkiTru vers resp	ustPointResult { sion (string, optional), sonse (PkiTrustPoint, optional)	

"Try out"

Parameters					
Parameter	Value	Description	Parameter Type	Data Type	
serialNumber	SSI161908CX	Device serial-number	path	string	

Error Status Codes

HTTP Status Code	Reason
200	The request was successful. The result is contained in the response body.
204	The request was successful, however no content was returned.
206	The GET request included a Range Header, and the server responded with the partial content matching the range.
400	The client made a request that the server could not understand (for example, the request syntax is incorrect).
401	The client's authentication credentials included with the request are missing or invalid.
403	The server recognizes the authentication credentials, but the client is not authorized to perform this request.
484	The client made a request for a resource that does not exist.
500	The server could not fulfill the request.
501	The server has not implemented the functionality required to fulfill the request.
503	The server is (temporarily) unavailable.
504	The server did not respond inside time restrictions and timed-out.
409	The target resource is in a conflicted state (for example, an edit conflict where a resource is being edited by multiple users). Retrying the request later might succeed.
415	The client sent a request body in a format that the server does not support (for example, XML to a server that only accepts JSON).
Try it out!	

<pre>{ "response": { "taskId": "33ab0da8-9be1-40b7-86c2-cf2e501ebbb5", "url": "/api/v1/task/33ab0da8-9be1-40b7-86c2-cf2e501ebbb5"</pre>	
}, "version": "1.0" }	
Response Code	
282	
Response Headers	
<pre>{ "Pragma": "no-cache, no-cache", "Content-Security-Policy": "style-src 'self' 'unsafe-inline'; script-s "X-Frame-Options": "SAMEORIGIN, SAMEORIGIN", "Date": "Tue, 28 Mar 2017 10:15:23 GMT", "Strict-Transport-Security": "max-age=31536000; includeSubDomains, max "Content-Type": "application/json;charset=UTF-8", "Access-Control-Allow-Origin": "https://10.78.106.45", "Cache-Control": "no-cache, no-store, no-cache, no-store", "Transfer-Encoding": "chunked", "Access-Control-Allow-Credentials": "false"</pre>	rc 'self' 'unsafe-eval' 'unsafe-inline' 'nonce-f59e75bb-2a28-4fe8-a954- -age=31536000; includeSubDomains",
)	