

D4Science Infrastructure - Incident #482

GARR-CERT-16H1208 Unrestricted elasticsearch server access on node13.p.d4science.research-infrastructures.eu

Aug 12, 2015 11:32 AM - Andrea Dell'Amico

Status:	Closed	Start date:	Aug 12, 2015
Priority:	Immediate	Due date:	
Assignee:	_InfraScience Systems Engineer	% Done:	100%
Category:	System Application	Estimated time:	0.00 hour
Target version:	UnSprintable		
Infrastructure:	Production		
Description			
GARR-CERT reports that node13.p.d4science.research-infrastructures.eu has an elasticsearch instance main port open to the world:			
#####			
Incident Number: GARR-CERT-16H1208			
#####			
Salve,			
sono un membro del GARR-CERT (www.cert.garr.it), il Computer Security Incident Response Team della rete GARR (www.garr.it), la rete Accademica e della Ricerca in Italia.			
Abbiamo ricevuto un report in base al quale il software Elasticsearch in funzione sull'host node13.p.d4science.research-infrastructures.eu (146.48.122.236), risulta raggiungibile ed interrogabile da qualsiasi nodo in internet.			
timestamp,ip,proto,port,hostname,tag,version,naics,sic,ok,name,cluster_name,status,build_hash,build_timestamp,build_snapshot,luce_version,tagline			
2015-08-02 06:48:25,146.48.122.236,tcp,9200,node13.p.d4science.research-infrastructures.eu,elasticsearch,1.5.0,0,0,,Amphibion,es-cluster--d4science.research-infrastru,200,544816042d40151d3ce4ba4f95399d7860dc2e92,2015-03-23T14:30:58Z,false,4.10.4,You Know, for Search			
Elasticsearch non prevede alcuna autenticazione o limitazione di accesso ai dati, e' quindi possibile che chiunque possa ottenere un controllo completo del servizio e attuare abusi.			
Vi suggeriamo di configurare delle restrizioni in modo da controllare l'accesso al server.			
Riferimenti:			
https://www.elastic.co/products/elasticsearch			
https://www.shadowserver.org/wiki/pmwiki.php/Services/Open-Elasticsearch			
https://www.tenable.com/plugins/index.php?view=single&id=76572			
http://bouk.co/blog/elasticsearch-rce/			
http://stackoverflow.com/questions/4960298/how-to-secure-an-internet-facing-elastic-search-implementation-in-a-shared-host			
https://github.com/sonian/elasticsearch-jetty			
https://github.com/floragunncom/search-guard			
http://stackoverflow.com/questions/31366406/search-guard-not-integrating-with-elasticsearch			
Cordiali saluti,			

GARR-CERT staff

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Italian Academic and Research Network          http://www.garr.it
Computer Security Incident Response Team      http://www.cert.garr.it
PGP key: http://www.cert.garr.it/PGP/keys.php3#ap
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```

History

#1 - Aug 12, 2015 11:37 AM - Andrea Dell'Amico

- Status changed from New to In Progress

- % Done changed from 0 to 90

I see that it's an index service that runs on a tomcat instance listening on port 8080. The webapp includes the elasticsearch libraries.

I'm leaving the port 8080 open to the world, while I'm closing the 9200 port to everybody but the ISTI and ISTI-Eduroam networks.

Let me know if it's correct. The running iptables rules:

```
0 0 ACCEPT tcp -- * * 146.48.122.236 0.0.0.0/0 state NEW tcp dpt:920
0 0 ACCEPT tcp -- * * 146.48.80.0/21 0.0.0.0/0 state NEW tcp dpt:920
0 0 ACCEPT tcp -- * * 146.48.122.0/23 0.0.0.0/0 state NEW tcp dpt:920
0 0 ACCEPT tcp -- * * 146.48.51.0/24 0.0.0.0/0 state NEW tcp dpt:920
0 0 ACCEPT tcp -- * * 146.48.106.0/23 0.0.0.0/0 state NEW tcp dpt:920
0 0 REJECT tcp -- * * 0.0.0.0/0 0.0.0.0/0 state NEW tcp dpt:920
0 reject-with icmp-host-prohibited
```

#2 - Aug 13, 2015 03:45 PM - Tommaso Piccioli

- Status changed from In Progress to Closed

- % Done changed from 90 to 100

```
#####
Incident Number: GARR-CERT-16H1208 CLOSED
#####
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Salve,

il ticket in oggetto e' stato chiuso.

Grazie per la collaborazione.

Cordiali saluti,
GARR-CERT staff