



# Big Data, Big Security Issues

**Thiago Bordini – NS Prevention**

A implementação de soluções de Big Data tem crescido nos últimos anos devido a necessidade de **consolidação** de informações em uma plataforma que permita um crescimento rápido com pesquisa **ágeis** e **correlacionadas** entre as mais **diversas fontes** de informação de uma empresa.

**Mas qual o problema?**

JUNHO 1, 2016

## Relatório do IDC prevê crescimento de 50% no mercado de Big Data e Análise até 2019

Em seu último relatório semestral “Big Data and Analytics Spending Guide”, a empresa de inteligência de mercado International Data Corporation (IDC) prevê que as receitas no mercado de Big Data e análise devem chegar a US\$ 187 bilhões até 2019, crescimento de 50% em relação aos US\$ 122 bilhões de faturamento em 2015.

O otimismo se deve à percepção, nas empresas, de que soluções de análise são um diferencial no mercado. Segundo Dan Vesset, vice-presidente de Análise e Gerenciamento da Informação do IDC, *“empresas capazes de aproveitar os recursos da nova geração de soluções de análise de dados conseguem se adaptar melhor a mudanças e se diferenciar frente à competição nos seus mercados”*.

Segundo o relatório, o mercado de serviços deve ser a grande fonte de oportunidades para os fornecedores de soluções de análise: mais da metade do montante de investimento previsto até 2019 deve estar nesse mercado. Logo atrás vem o mercado de software cujo investimento – principalmente em ferramentas de análise e relatórios e de gerenciamento de data warehouse – deve chegar aos US\$ 55 bi.

Em termos de indústria, a bancária e a de saúde estão entre as que devem experimentar maior investimento em soluções de big data e análise, mas o relatório aponta que praticamente todas as indústrias devem aumentar seus investimentos nessas soluções em até 50% no período.

## ElasticZombie Botnet - Exploiting Elasticsearch Vulnerabilities

With the rise of inexpensive Virtual Servers and popular services that install [insecurely](#) by [default](#), coupled with some juicy vulnerabilities (read: [RCE - Remote Code Execution](#)), like [CVE-2015-5377](#) and [CVE-2015-1427](#), this year will be an interesting one for Elasticsearch. Elasticsearch provides plenty of targets for people to exploit and create server-based botnets but in fairness it is not only Elasticsearch that suffers from critical vulnerabilities there is also ShellShock, mongodb-exploits and very recently a [bug that hit WebSphere, JBoss, Jenkins and OpenNMS](#).

This blog post analyzes what happens if you run a vulnerable service that is connected to the internet resulting in your server becoming a compliant member of a botnet.

With our analysis we concentrate on how the infection happens, what the bots are doing and whom they communicate with, but not the code itself. For a nice read on dissecting Linux-based malware we'd suggest you read the articles from [@MalwareMustDie](#).

Over a period of 3-months we collected more than 30 different bots, giving us enough interesting stuff to play with and analyze.



Exploits against ElasticZombie - Honey pots, 30 days

DEC 28, 2015 @ 08:50 AM 198,726 VIEWS

## 191 Million US Voter Registration Records Leaked In Mystery Database



**Thomas  
Fox-Brewster**  
FORBES STAFF

*I cover crime, privacy and security in digital and physical forms.*

FULL BIO >

A whitehat hacker has uncovered a database sitting on the Web containing various pieces of personal information related to 191 million American citizens registered to vote. On top of the concomitant problems of disclosing such a significant leak to that many people, no one knows who is actually responsible for the misconfiguration that left the data open to anyone.

Researcher Chris Vickery, who [this month found myriad databases left open to all and sundry](#), told FORBES he has his hands on all 300GB of voter data, which includes names, home addresses, phone numbers, dates of birth, party affiliations, and logs of whether or not they had voted in primary or general elections. The data appears to date back to 2000. It does not contain financial data or social security numbers.

## Philippines elections hack 'leaks voter data'

The Philippines may have suffered its worst-ever government data breach barely a month before its elections.

Personal information, including fingerprint data and passport information, belonging to around 70 million people is said to have been compromised by hackers.

The **Philippine Commission on the Elections** (Comelec) saw its website defaced at the end of March.

## Millions of Anthem Customers Targeted in Cyberattack

Anthem, one of the nation's largest health insurers, said late Wednesday that the personal information of tens of millions of its customers and employees, including its chief executive, was the subject of a "very sophisticated external cyberattack."

The company, which is continuing its investigation into the exact scope of the attack, said hackers were able to breach a database that contained as many as 80 million records of current and former customers, as well as employees. The information accessed included names, Social Security numbers, birthdays, addresses, email and employment information, including income data.

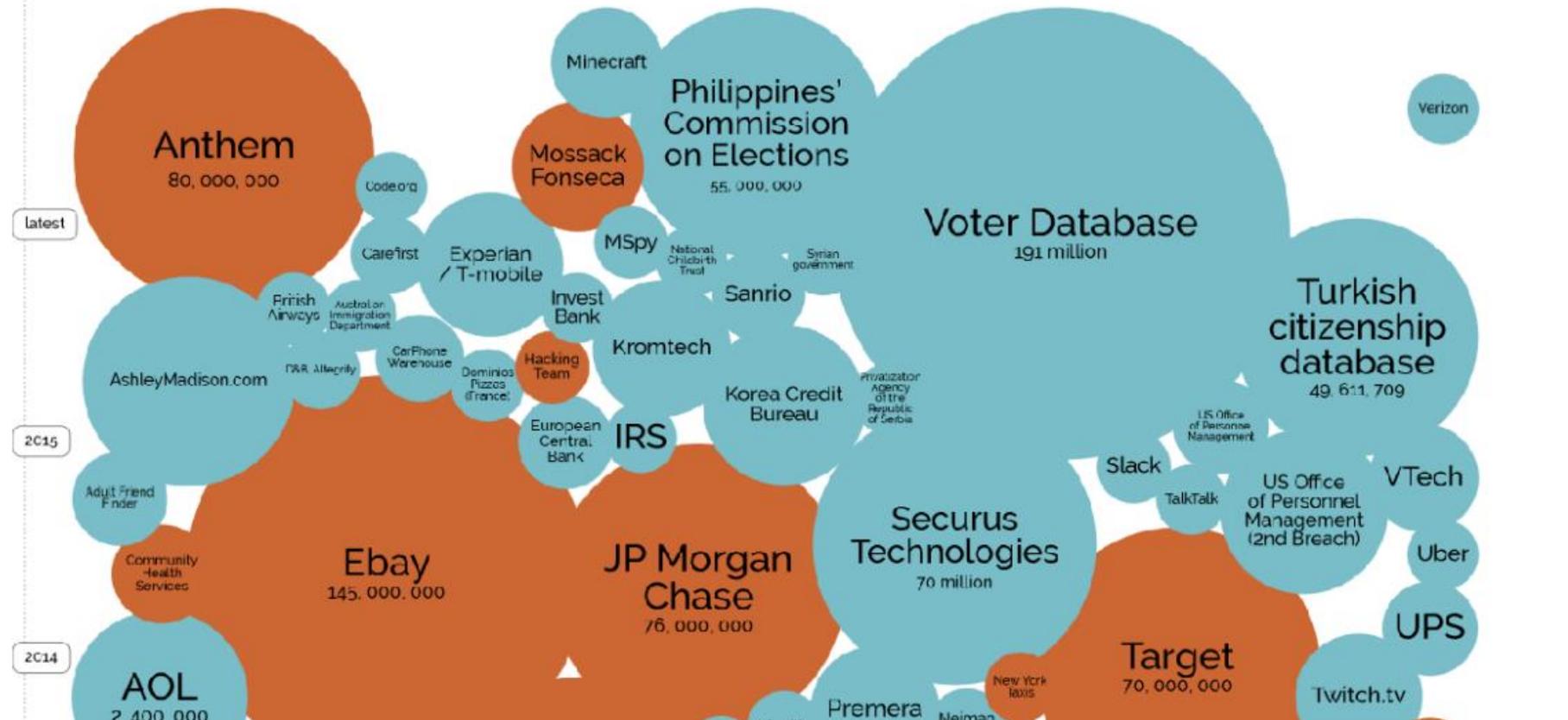
# Big Data em problemas

## World's Biggest Data Breaches

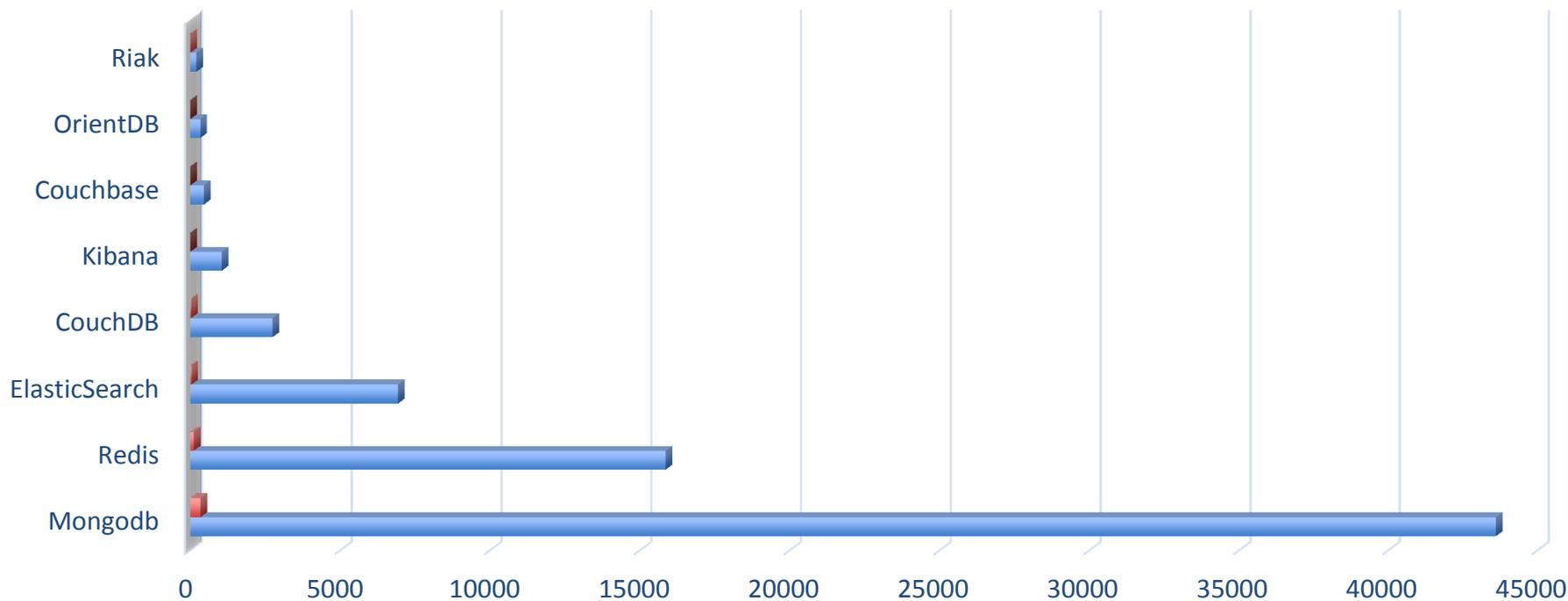
Selected losses greater than 30,000 records  
(updated 6th May 2016)

interesting story

YEAR BUBBLE COLOUR YEAR METHOD OF LEAK BUBBLE SIZE NO OF RECORDS STOLEN DATA SENSITIVITY SHOW FILTER



## Principais sistemas NoSQL utilizados em soluções de BigData – 05/2016



|             | Mongodb | Redis | ElasticSearch | CouchDB | Kibana | Couchbase | OrientDB | Riak |
|-------------|---------|-------|---------------|---------|--------|-----------|----------|------|
| ■ BR        | 345     | 117   | 46            | 32      | 2      | 1         | 2        | 6    |
| ■ Qtd Total | 43616   | 15859 | 6939          | 2752    | 1051   | 462       | 335      | 209  |

## Around 36 Million Records From 110 MongoDB Servers Leaked By GhostShell

📅 June 4, 2016 👤 The White Cat 👁 736 Views 💬 0 Comment 🏷 data breach, GhostShell, Pastebin, Security

24 year old Romanian hacker GhostShell has leaked more than 36 million user's accounts among which 3.6 million records include passwords of several accounts. The hacker announced the data leak on Twitter and posted a link to a PasteBin URL where users can find a statement about this hack. The reason was to raise awareness about the poor security infrastructure implemented on MongoDB databases by their owners.

The download package is a 598 MB ZIP file, which decompresses to 5.6 GB of data, containing 110 folders named based on the hacked server's IP. There are 110 IP addresses that were breached and to every IP there is a dedicated folder with the DB data, proof and general information. The data varies from server to server but reveals a lot of sensitive info such as username, password, full name, phone, address, 627,296 email addresses and more.

## Problem Scope

There's a total of **595.2 TB of data** exposed on the Internet via publicly accessible MongoDB instances that don't have any form of authentication. To determine the scale of the problem I downloaded the data using the [Shodan](#) [command-line tool](#):

```
shodan download --limit -1 mongodb "product:MongoDB"
```

And then I ran a small Python script to aggregate the total size of all exposed databases. I also looked at which database names were most popular:

1. **local**: 27,108
2. **admin**: 22,286
3. **db**: 9,895
4. **test**: 6,818
5. **config**: 1,119
6. **mydb**: 498

# Problemas – Exposição de dados

179. [REDACTED]

[REDACTED].com.br  
Informatica S.A.

Added on 2016-05-14 00:20:07 GMT

 Brazil

[Details](#)



| Database Name | Size     |
|---------------|----------|
| EventsHook    | 81.9 GB  |
| Tracking      | 17.9 GB  |
| DSGaming      | 2.0 GB   |
| DSPublicidade | 208.0 MB |
| DSGamingDev   | 80.0 MB  |

MongoDB Server Information

```
{
  "metrics": {
    "getLastError": {
      "wtime": {
        "num": 0,
        "totalMillis": 0
      },
      "wtimeouts": 0
    },
    "storage": {
      "freelist": {
        "search": {
          ...
        }
      }
    }
  }
}
```

200. [REDACTED]

Added on 2016-05-14 03:40:57 GMT

 Brazil

[Details](#)



| Database Name  | Size     |
|----------------|----------|
| [REDACTED]_xml | 117.9 GB |
| test           | 208.0 MB |
| admin          | 1 byte   |
| local          | 1 byte   |

MongoDB Server Information

```
{
  "backgroundFlushing": {
    "last_finished": "2016-05-14T03:54:19.603000",
    "last_ms": 0,
    "flushes": 237167,
    "average_ms": 0.27949082292224464,
    "total_ms": 66286
  },
  "connections": {
    "current": 3,
    "av..."
  }
}
```

# Problemas – Exposição de dados

54. [REDACTED]

Added on 2016-05-14 08:58:43 GMT

 Brazil

[Details](#)



| Database Name          | Size     |
|------------------------|----------|
| [REDACTED]_bs          | 269.8 GB |
| [REDACTED]_ps_response | 17.9 GB  |
| [REDACTED]_tz          | 80.0 MB  |
| config                 | 16.0 MB  |
| admin                  | 16.0 MB  |

MongoDB Server Information

```
{
  "connections": {
    "current": 445,
    "available": 50755,
    "totalCreated": 49609
  },
  "uptime": 6157404.0,
  "metrics": {
    "getLastError": {
      "wtime": {
        "num": 0,
        "totalMillis": 0
      }
    }
  }
}
```

104. [REDACTED]

Added on 2016-04-24 17:45:58 GMT

 Brazil

[Details](#)

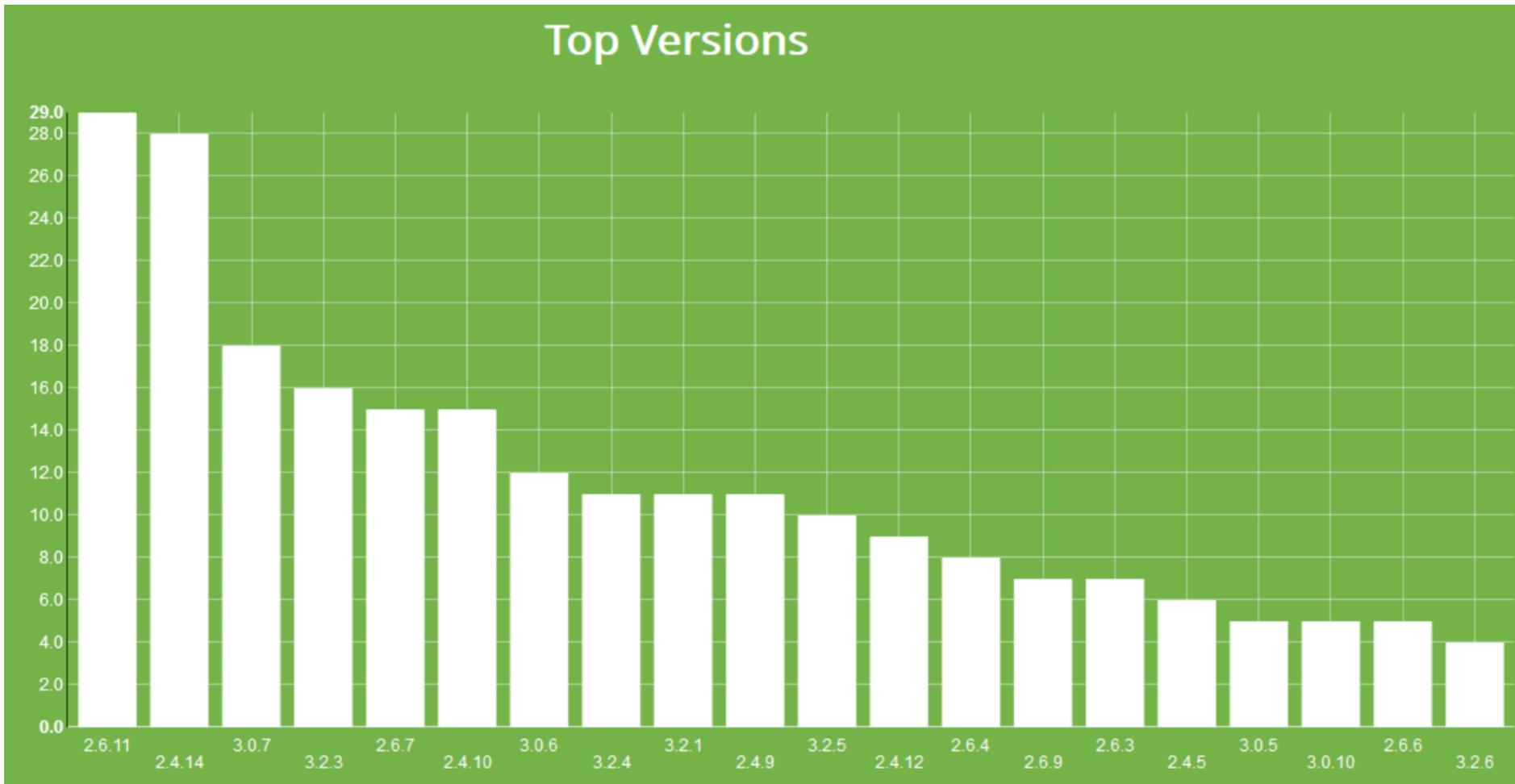


| Database Name  | Size     |
|----------------|----------|
| [REDACTED]_ria | 341.8 GB |
| local          | 80.0 MB  |

MongoDB Server Information

```
{
  "metrics": {
    "commands": {
      "updateUser": {
        "failed": 0,
        "total": 0
      },
      "dropRole": {
        "failed": 0,
        "total": 0
      },
      "renameCollection..."
    }
  }
}
```

## 294 Servidores MongoDBs – Somente Brasil



## 294 Servidores MongoDBs – Somente Brasil

| #   | CVE ID                        | CWE ID              | # of Exploits | Vulnerability Type(s) | Publish Date | Update Date | Score | Gained Access Level | Access | Complexity | Authentication | Conf.   | Integ.  | Avail.  |
|---|-------------------------------|---------------------|---------------|-----------------------|--------------|-------------|-------|---------------------|--------|------------|----------------|---------|---------|---------|
| 1   | <a href="#">CVE-2015-1609</a> | <a href="#">20</a>  |               | DoS                   | 2015-03-30   | 2015-10-22  | 5.0   | None                | Remote | Low        | Not required   | None    | None    | Partial |
| MongoDB before 2.4.13 and 2.6.x before 2.6.8 allows remote attackers to cause a denial of service via a crafted UTF-8 string in a BSON request.   |                               |                     |               |                       |              |             |       |                     |        |            |                |         |         |         |
| 2   | <a href="#">CVE-2014-3971</a> | <a href="#">20</a>  |               | DoS                   | 2014-12-25   | 2014-12-29  | 5.0   | None                | Remote | Low        | Not required   | None    | None    | Partial |
| The CmdAuthenticate::_authenticateX509 function in db/commands/authentication_commands.cpp in mongod in MongoDB 2.6.x before 2.6.2 allows remote attackers to cause a denial of service (daemon crash) by attempting authentication with an invalid X.509 client certificate.   |                               |                     |               |                       |              |             |       |                     |        |            |                |         |         |         |
| 3   | <a href="#">CVE-2013-4650</a> | <a href="#">264</a> |               |                       | 2013-07-04   | 2013-07-05  | 6.5   | User                | Remote | Low        | Single system  | Partial | Partial | Partial |
| MongoDB 2.4.x before 2.4.5 and 2.5.x before 2.5.1 allows remote authenticated users to obtain internal system privileges by leveraging a username of __system in an arbitrary database.   |                               |                     |               |                       |              |             |       |                     |        |            |                |         |         |         |
| 4   | <a href="#">CVE-2013-3969</a> | <a href="#">399</a> |               | DoS Exec Code         | 2013-10-01   | 2013-10-02  | 6.5   | None                | Remote | Low        | Single system  | Partial | Partial | Partial |
| The find prototype in scripting/engine_v8.h in MongoDB 2.4.0 through 2.4.4 allows remote authenticated users to cause a denial of service (uninitialized pointer dereference and server crash) or possibly execute arbitrary code via an invalid RefDB object.  |                               |                     |               |                       |              |             |       |                     |        |            |                |         |         |         |
| 5   | <a href="#">CVE-2013-2132</a> |                     |               | DoS                   | 2013-08-15   | 2013-10-07  | 4.3   | None                | Remote | Medium     | Not required   | None    | None    | Partial |
| bson/_cbsonmodule.c in the mongo-python-driver (aka. pymongo) before 2.5.2, as used in MongoDB, allows context-dependent attackers to cause a denial of service (NULL pointer dereference and crash) via vectors related to decoding of an "invalid DBRef."   |                               |                     |               |                       |              |             |       |                     |        |            |                |         |         |         |
| 6   | <a href="#">CVE-2013-1892</a> | <a href="#">20</a>  | 2             | DoS Exec Code         | 2013-10-01   | 2013-11-30  | 6.0   | None                | Remote | Medium     | Single system  | Partial | Partial | Partial |
| MongoDB before 2.0.9 and 2.2.x before 2.2.4 does not properly validate requests to the nativeHelper function in SpiderMonkey, which allows remote authenticated users to cause a denial of service (invalid memory access and server crash) or execute arbitrary code via a crafted memory address in the first argument. |                               |                     |               |                       |              |             |       |                     |        |            |                |         |         |         |
| 7   | <a href="#">CVE-2012-6619</a> | <a href="#">20</a>  |               | DoS                   | 2014-03-06   | 2014-05-06  | 6.4   | None                | Remote | Low        | Not required   | Partial | None    | Partial |
| The default configuration for MongoDB before 2.3.2 does not validate objects, which allows remote authenticated users to cause a denial of service (crash) or read system memory via a crafted BSON object in the column name in an insert command, which triggers a buffer over-read.                                    |                               |                     |               |                       |              |             |       |                     |        |            |                |         |         |         |

## 6.448 Servidores Elasticseach Global – 05/2016



### Top Countries

|                   |       |
|-------------------|-------|
| 1. United States  | 2,287 |
| 2. China          | 714   |
| 3. France         | 568   |
| 4. Netherlands    | 368   |
| 5. Singapore      | 338   |
| 6. Germany        | 308   |
| 7. Ireland        | 288   |
| 8. United Kingdom | 210   |
| 9. Japan          | 175   |
| 10. Canada        | 126   |

## Elasticsearch RCE – CVE-2015-1427

### Vulnerability Details : [CVE-2015-1427](#) (1 Metasploit modules)

The Groovy scripting engine in Elasticsearch before 1.3.8 and 1.4.x before 1.4.3 allows remote attackers to bypass the sandbox protection mechanism and execute arbitrary shell commands via a crafted script.

Publish Date : 2015-02-17 Last Update Date : 2015-06-25

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### – CVSS Scores & Vulnerability Types

|                        |   |
|------------------------|---|
| CVSS Score             | <b>7.5</b>  |
| Confidentiality Impact | <b>Partial</b> (There is considerable informational disclosure.)  |
| Integrity Impact       | <b>Partial</b> (Modification of some system files or information is possible, but the attacker does not have control over what can be modified, or the scope of what the attacker can affect is limited.) |
| Availability Impact    | <b>Partial</b> (There is reduced performance or interruptions in resource availability.)  |
| Access Complexity      | <b>Low</b> (Specialized access conditions or extenuating circumstances do not exist. Very little knowledge or skill is required to exploit. )   |
| Authentication         | <b>Not required</b> (Authentication is not required to exploit the vulnerability.)  |
| Gained Access          | <b>None</b>   |
| Vulnerability Type(s)  | Execute Code Bypass a restriction or similar  |
| CWE ID                 | <a href="#">284</a>   |

# Problemas – Vulnerabilidades

## 57 Servidores Elasticsearch Vulneráveis Global – CVE-2015-1427

### TOP COUNTRIES



|               |    |
|---------------|----|
| United States | 28 |
| France        | 4  |
| China         | 4  |
| Netherlands   | 3  |
| India         | 3  |

### TOP ORGANIZATIONS

|                        |    |
|------------------------|----|
| Amazon.com             | 16 |
| Google Cloud           | 3  |
| XS4ALL Internet BV     | 2  |
| SoftLayer Technologies | 2  |
| Optimum Online         | 2  |

### TOP OPERATING SYSTEMS

|           |   |
|-----------|---|
| Linux 3.x | 2 |
|-----------|---|

Total results: 57

52. [REDACTED]

1.compute.amazonaws.com  
**Amazon.com Tech Telecom**  
 Added on 2016-05-29 14:28:15 GMT  
 Singapore, Singapore

**Details**

HTTP/1.1 200 OK

Content-Type: application/json; charset=UTF-  
 Content-Length: 345

```
{
  "status" : 200,
  "name" : "[REDACTED]",
  "cluster_name" : "elasticsearch",
  "version" : {
    "number" : "1.4.3",
    "build_hash" : "36a29a7144cfde87a960ba03",
    "build_timestam...
```

2600:3c [REDACTED]

Added on 2016-05-29 12:38:28 GMT

United States

**Details**

HTTP/1.1 200 OK

Content-Type: application/json; charset=UTF-  
 Content-Length: 336

```
{
  "status" : 200,
  "name" : "[REDACTED],
```

## Exploit público – CVE-2015-1427

### ElasticSearch Unauthenticated Remote Code Execution

|   |                                       |                              |
|---|---------------------------------------|------------------------------|
| <b>EDB-ID:</b> 36337  | <b>CVE:</b> <a href="#">2015-1427</a> | <b>OSVDB-ID:</b> 118239      |
| <b>EDB Verified:</b>  | <b>Author:</b> Xiphos Research Ltd    | <b>Published:</b> 2015-03-11 |
| <b>Download Exploit:</b> <a href="#">Source</a> <a href="#">Raw</a> | <b>Download Vulnerable App:</b> N/A   |                              |

[« Previous Exploit](#)

[Next](#)

```
1  #!/bin/python2
2  # coding: utf-8
3  # Author: Darren Martyn, Xiphos Research Ltd.
4  # Version: 20150309.1
5  # Licence: WTFPL - wtfpl.net
6  import json
7  import requests
8  import sys
9  import readline
10 readline.parse_and_bind('tab: complete')
11 readline.parse_and_bind('set editing-mode vi')
12 __version__ = "20150309.1"
13
14 def banner():
15     print "\x1b[1;32m
16 ELASTIC SHELL
17
18
19
20
21
22
23
24
25
26 Exploit for ElasticSearch , CVE-2015-1427  Version: %s\x1b[0m"" %(__version__)
```

## Servidores Elasticsearch Vulneráveis Global – CVE-2015-5531

### Vulnerability Details : [CVE-2015-5531](#) (1 Metasploit modules)

Directory traversal vulnerability in Elasticsearch before 1.6.1 allows remote attackers to read arbitrary files via unspecified vectors related to snapshot API calls.

Publish Date : 2015-08-17 Last Update Date : 2015-08-19

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### – CVSS Scores & Vulnerability Types

|                        |  |
|------------------------|--|
| CVSS Score             | <b>5.0</b>   |
| Confidentiality Impact | Partial (There is considerable informational disclosure.)  |
| Integrity Impact       | None (There is no impact to the integrity of the system)   |
| Availability Impact    | None (There is no impact to the availability of the system.)   |
| Access Complexity      | Low (Specialized access conditions or extenuating circumstances do not exist. Very little knowledge or skill is required to exploit. ) |
| Authentication         | Not required (Authentication is not required to exploit the vulnerability.)  |
| Gained Access          | None   |
| Vulnerability Type(s)  | Directory traversal  |
| CWE ID                 | <a href="#">22</a>   |

## 434 Servidores Elasticsearch Vulneráveis Global - CVE-2015-5531

### TOP COUNTRIES



|               |     |
|---------------|-----|
| United States | 147 |
| China         | 83  |
| Netherlands   | 38  |
| Ireland       | 22  |
| France        | 21  |

### TOP ORGANIZATIONS

|                                       |    |
|---------------------------------------|----|
| Amazon.com                            | 69 |
| Digital Ocean                         | 25 |
| Hangzhou Alibaba Advertising Co.,Ltd. | 16 |
| Aliyun Computing Co., LTD             | 15 |
| Microsoft Azure                       | 14 |

### TOP OPERATING SYSTEMS

|           |   |
|-----------|---|
| Linux 3.x | 4 |
|-----------|---|

Total results: 434

191

Microsoft Azure

Added on 2016-05-30 18:53:07 GMT

 United States, Washington

[Details](#)

HTTP/1.1 200 OK

Content-Type: application/json; charset=

Content-Length: 344

```
{
  "status" : 200,
  "name" : "Raza",
  "cluster_name" : "elasticsearch",
  "version" : {
    "number" : "1.6.0",
    "build_hash" : "cdd3ac4dde4f69524ec0",
    "build_timestamp" : "...
```

31.

Added on 2016-05-30 14:50:56 GMT

 Russian Federation

[Details](#)

HTTP/1.1 200 OK

Content-Type: application/json; charset=

Content-Length: 339

```
{
  "status" : 200,
  "name" : "h[REDACTED]",
```

## Exploit público – CVE-2015-5531

### ElasticSearch 1.6.0 - Arbitrary File Download

|  |  |                       |
|--|--|-----------------------|
| EDB-ID: 38383  | CVE: 2015-5531                             | OSVDB-ID: 124882      |
| EDB Verified: ✘  | Author: Pedro Andujar                      | Published: 2015-10-02 |
| Download Exploit: <a href="#">Source</a> <a href="#">Raw</a> | Download Vulnerable App: <a href="#">↓</a> |                       |

« Previous Exploit

```
1 # elasticpwn Script for ElasticSearch url path traversal vuln. CVE-2015-5531
2
3 ...
4 [crg@fogheaven elasticpwn]$ python CVE-2015-5531.py exploitlab.int /etc/hosts
5 !dSR script for CVE-2015-5531
6
7 127.0.0.1 localhost
8
9 # The following lines are desirable for IPv6 capable hosts
10 ::1 ip6-localhost ip6-loopback
11 fe00::0 ip6-localnet
12 ff00::0 ip6-mcastprefix
13 ff02::1 ip6-allnodes
14 ff02::2 ip6-allrouters
15 ff02::3 ip6-allhosts
16
17
18 The script requires path.repo to be set into elasticsearch.yml and be writeable by elasticsearch process.
19
20 In order to bypass the snapshot- prefix setted in the server side, we need to create a known relative path:
21
22 curl http://exploitlab.int:9200/_snapshot/?pretty
23
24 {
```

# E os grandes players?

## Oracle – 36.463 Servidores expostos

### TOP COUNTRIES



|               |        |
|---------------|--------|
| United States | 11,839 |
| Brazil        | 2,990  |
| Germany       | 2,118  |
| China         | 1,759  |
| France        | 1,709  |

### TOP SERVICES

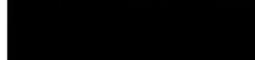
|                  |        |
|------------------|--------|
| HTTP (8080)      | 10,815 |
| HTTP             | 8,181  |
| GlassFish Server | 6,235  |
| HTTPS            | 6,043  |
| 4848             | 2,829  |

### TOP ORGANIZATIONS

|                    |       |
|--------------------|-------|
| Amazon.com         | 3,746 |
| Oracle Corporation | 1,432 |
| OVH SAS            | 884   |
| Digital Ocean      | 548   |
| AMAZON             | 304   |

Total results: 36,463

### GlassFish Server 3.1.2 - Server Running



Added on 2016-06-06 12:54:23 GMT

Romania

[Details](#)

#### Diffie-Hellman Parameters

Fingerprint: Java 7/Hardcoded  
768-bit prime

HTTP/1.0 200 OK

X-Powered-By: Servlet/3.0 JSP/2.2 (G  
Server: **GlassFish** Server Open Source  
Accept-Ranges: bytes  
ETag: W/"4759-1342009546000"  
Last-Modified: Wed, 11 Jul 2012 12:2  
Content-Type: text...



Added on 2016-06-06 12:54:18 GMT

United States, Fort Lauderdale

[Details](#)

HTTP/1.1 200 OK

Date: Mon, 06 Jun 2016 12:54:16 GMT

Server: **GlassFish** Server Open Source Edition 4.1

X-Powered-By: Servlet/3.1 JSP/2.3 (**GlassFish** Server Open Source Editi

Content-Type: text/html

Content-Length: 15



Added on 2016-06-06 12:53:33 GMT

United States, Redwood City

[Details](#)

HTTP/1.1 200 OK

X-Powered-By: Servlet/3.0 JSP/2.2 (Oracle **GlassFish** Server 3.1.2.2 Ja

Server: Oracle **GlassFish** Server 3.1.2.2

Accept-Ranges: bytes

ETag: W/"4356-1442943734000"

Last-Modified: Tue, 22 Sep 2015 17:42:14 GMT

# E os grandes players?

## Microsoft SQL Server – 28.288 Servidores expostos

### TOP COUNTRIES



|               |       |
|---------------|-------|
| United States | 5,332 |
| India         | 1,484 |
| Turkey        | 1,471 |
| Brazil        | 1,240 |
| China         | 1,080 |

### TOP ORGANIZATIONS

|               |     |
|---------------|-----|
| TE Data       | 786 |
| HiNet         | 579 |
| Telmex        | 578 |
| Turk Telekom  | 481 |
| Comcast Cable | 202 |

### TOP VERSIONS

|              |       |
|--------------|-------|
| 8.00.194     | 7,943 |
| 10.50.1600.1 | 3,410 |
| 9.00.5000.00 | 2,340 |
| 10.50.4000.0 | 2,325 |
| 10.50.2500.0 | 1,695 |

Total results: 28.288



Added on 2016-06-06 13:05:59 GMT

Jordan

[Details](#)

```
-ServerName: [REDACTED]; InstanceName: BKUPEXEC; IsClustered; No; Version; 9.00.5000.00; tcp; 49370; np; \\WIN[REDACTED]; 11.0.3000.0; tcp; 49570; np; \\[REDACTED]SID\pipe\MSSQL$VEEAMSQL2012\sql\...
```



Added on 2016-06-06 13:05:39 GMT

Colombia

[Details](#)

```
ServerName; SERVIDOR; InstanceName: [REDACTED]; IsClustered; No; Version; 9.00.4035.00; tcp; 49395; np; \\SERVIDOR\pipe\...; tcp; 50853; np; \\SERVIDOR\pipe\MSSQL$[REDACTED]\sql\query;;
```



Added on 2016-06-06 13:05:19 GMT

India, Delhi

[Details](#)

```
bServerName: [REDACTED]; InstanceName: SQLEXPRESS; IsClustered; No; Version; 10.50.1600.1;; ServerName: [REDACTED] InstanceName: SQL201600.1;; ServerName: [REDACTED] InstanceName; MSSQL2008; IsClustered; No; Version; 10.5...
```

# E os grandes players?

## Splunk – 182 Servidores expostos

### TOP COUNTRIES



|               |     |
|---------------|-----|
| France        | 117 |
| United States | 37  |
| Ireland       | 5   |
| China         | 5   |
| Germany       | 4   |

### TOP SERVICES

|       |     |
|-------|-----|
| HTTP  | 127 |
| HTTPS | 22  |
| 9443  | 8   |
| SMB   | 6   |
| 8649  | 3   |

### TOP ORGANIZATIONS

|               |     |
|---------------|-----|
| Iliad Hosting | 115 |
| Amazon.com    | 21  |
| AMAZON        | 3   |
| TrueServer BV | 2   |
| Server Block  | 2   |

Total results: 182



Added on 2016-06-06 11:41:42 GMT

Australia, Sydney

[Details](#)

#### SSL Certificate

Issued By:

| Common Name: DigiCert SHA2

Secure Server CA

| Organization: DigiCert Inc

Issued To:

| Common Name:

| Organization:

#### Supported SSL Versions

TLSv1, TLSv1.1, TLSv1.2

#### Diffie-Hellman Parameters

Fingerprint: mod\_ssl

2.2.x/Hardcoded

1024-bit prime

HTTP/1.1 401 Authorization Required

Date: Mon, 06 Jun 2016 11:41:29 GMT

Server: Apache/2.2.15 (CentOS)

WWW-Authenticate: Basic realm="ActiveDirectory - Please use your **SPlunk** Credential>"

Content-Length: 495

Connection: close

Content-Type: text/html; charset=iso-8859-1



Added on 2016-06-06 09:44:53 GMT

France

[Details](#)

HTTP/1.1 401 Unauthorized

Server: nginx/0.7.67

Date: Mon, 06 Jun 2016 09:44:50 GMT

Content-Type: text/html

Content-Length: 597

Connection: keep-alive

WWW-Authenticate: Basic realm="**Splunk** Authentication Required"

- 1. Fragilidade nos mecanismos de autenticação/autorização**
- 2. Fragilidade nos controle de acessos administrativos**
- 3. Implementações default**
- 4. Implementações com múltiplas interfaces em modo listen**
- 5. Ausência de criptografia**
- 6. Falsa inferência que sistemas NoSQL são mais seguros que banco de dados relacionais que são suscetíveis a ataques SQL Injection**
- 7. Ausência de aplicação de técnicas de "Hardening"**
- 8. Ausência de atualizações constantes**
- 9. Não implementação de sensores de monitoramento como SIEM, IDS, IPS**
- 10. Ausência de segmentação de tráfego**

- 1. Secure computations in distributed programming frameworks**
- 2. Security best practices for non-relational data stores**
- 3. Secure data storage and transactions logs**
- 4. End-point input validation/filtering**
- 5. Real-time security/compliance monitoring**
- 6. Scalable and composable privacy-preserving data mining and analytics**
- 7. Cryptographically enforced access control and secure communication**
- 8. Granular access control**
- 9. Granular audits**
- 10. Data provenance**



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