



# (Ne)Sigurnost hrvatskog Internet prostora



# OWASP

The Open Web Application Security Project



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- Marko Stanec
- Obrada računalnih incidenata
- Provjera ranjivosti
- Razvoj alata (Python/Django)





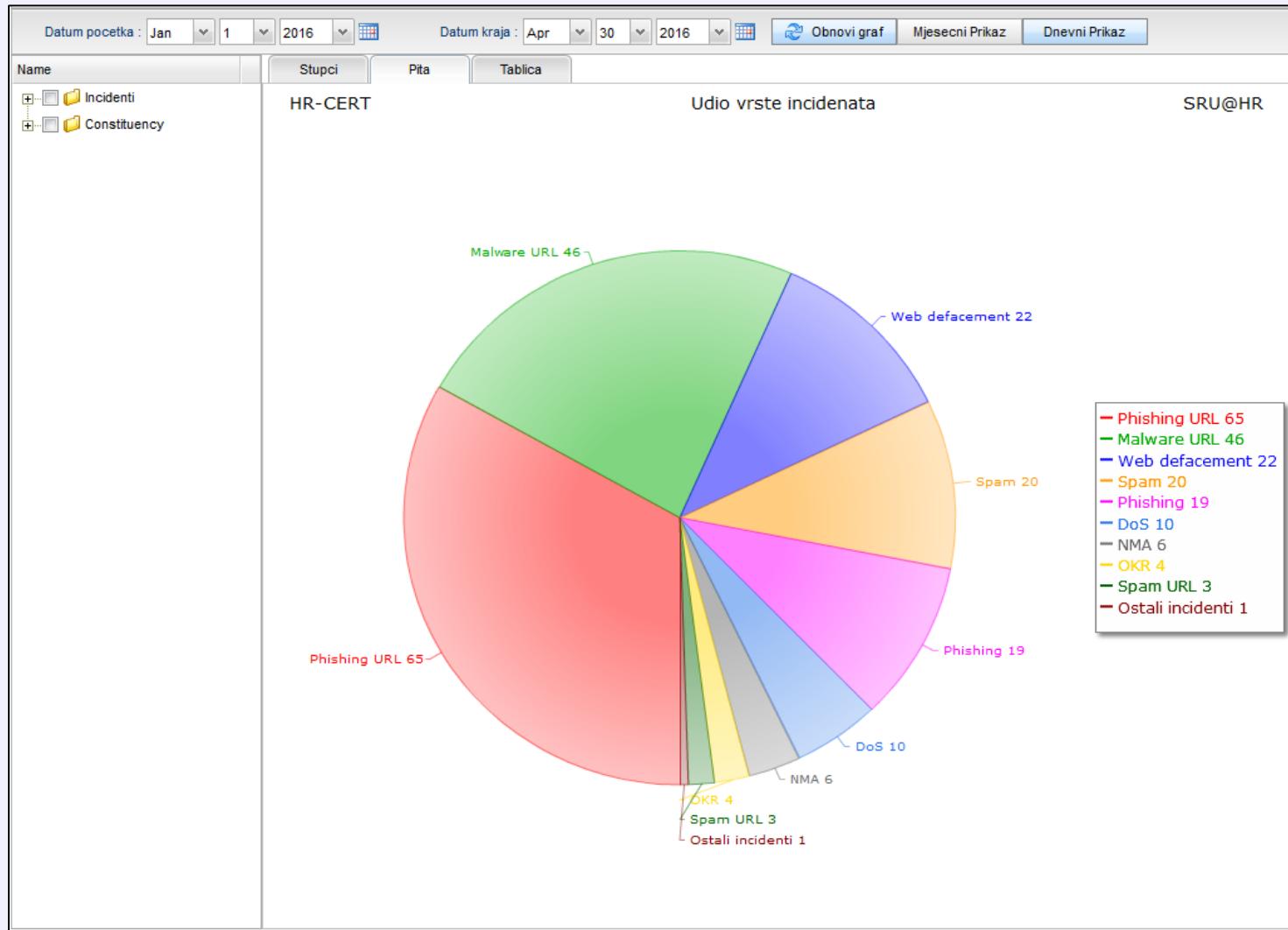
- ✓ Uklanjanje malicioznog sadržaja s Interneta
- ✓ Obrada incidenata na Internetu, ako se jedna od strana u incidentu nalazi u RH, osim tijela državne uprave (ZSIS CERT)
- ✓ Diseminacija informacija (vijesti, preporuke, dokumenti, brošure, alati)
- ✓ Forenzika, analiza malvera, mrežnog prometa, logova...
  
- ✗ operativno rješavanje problema i briga o sigurnosti pojedinih sustava
- ✗ kažnjavanje problematičnih korisnika
- ✗ arbitraža u sporovima
- ✗ pokretanje krivičnih prijava

# SRU@HR – vrste incidenata



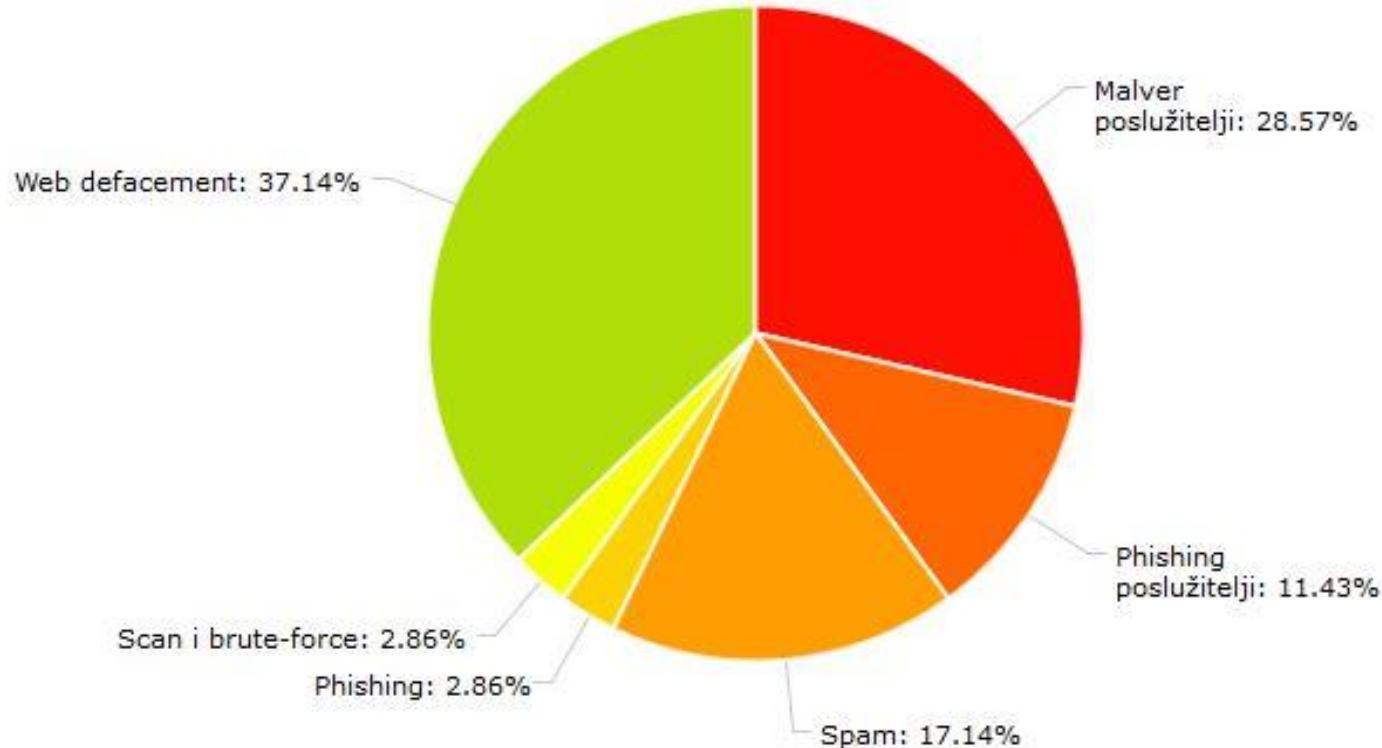
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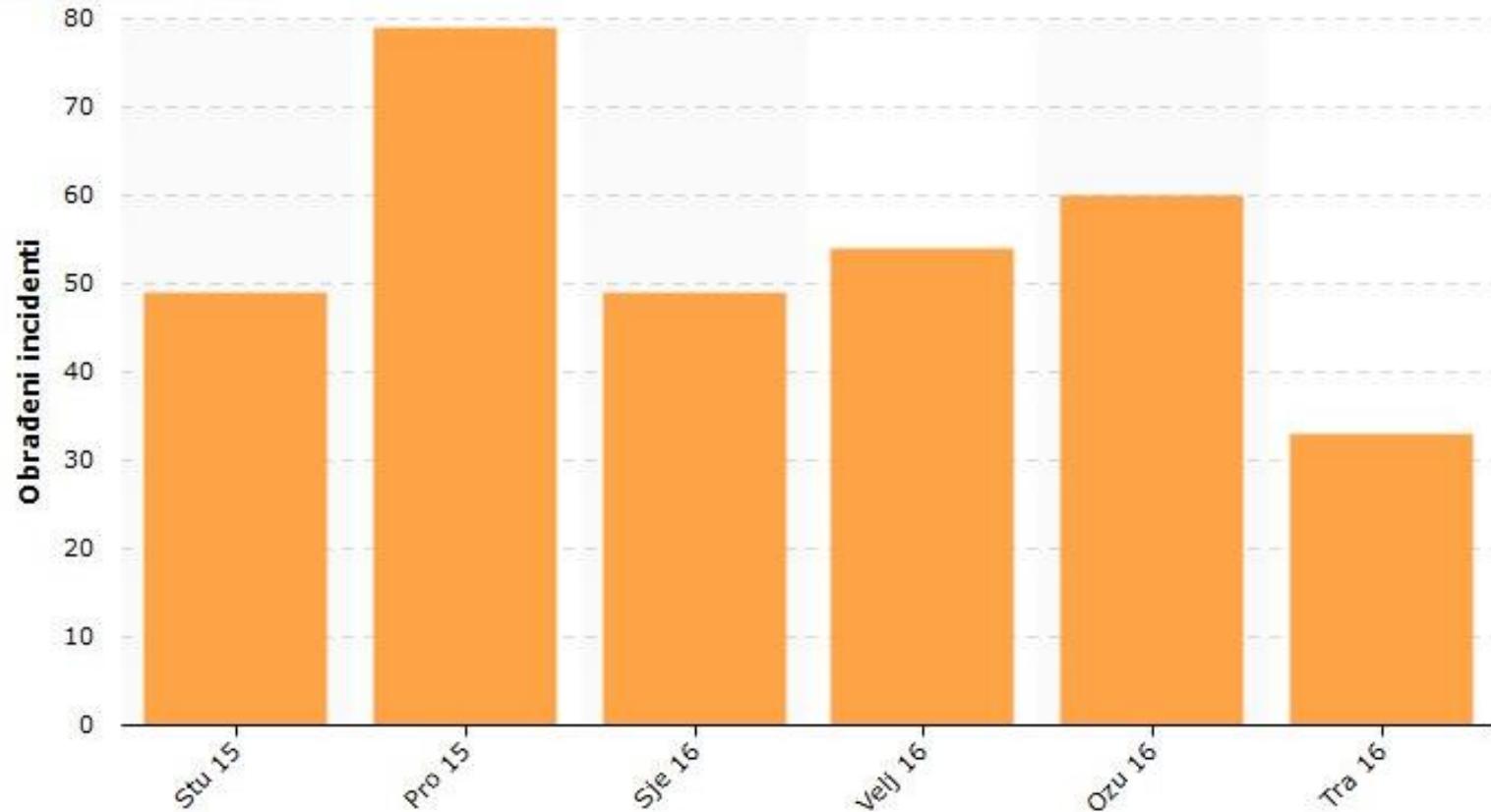
**Obrađeni incidenti u zadnjih 30 dana**

chart by amcharts.com



**Kretanje broja incidenata na poslužiteljima**

chart by amcharts.com

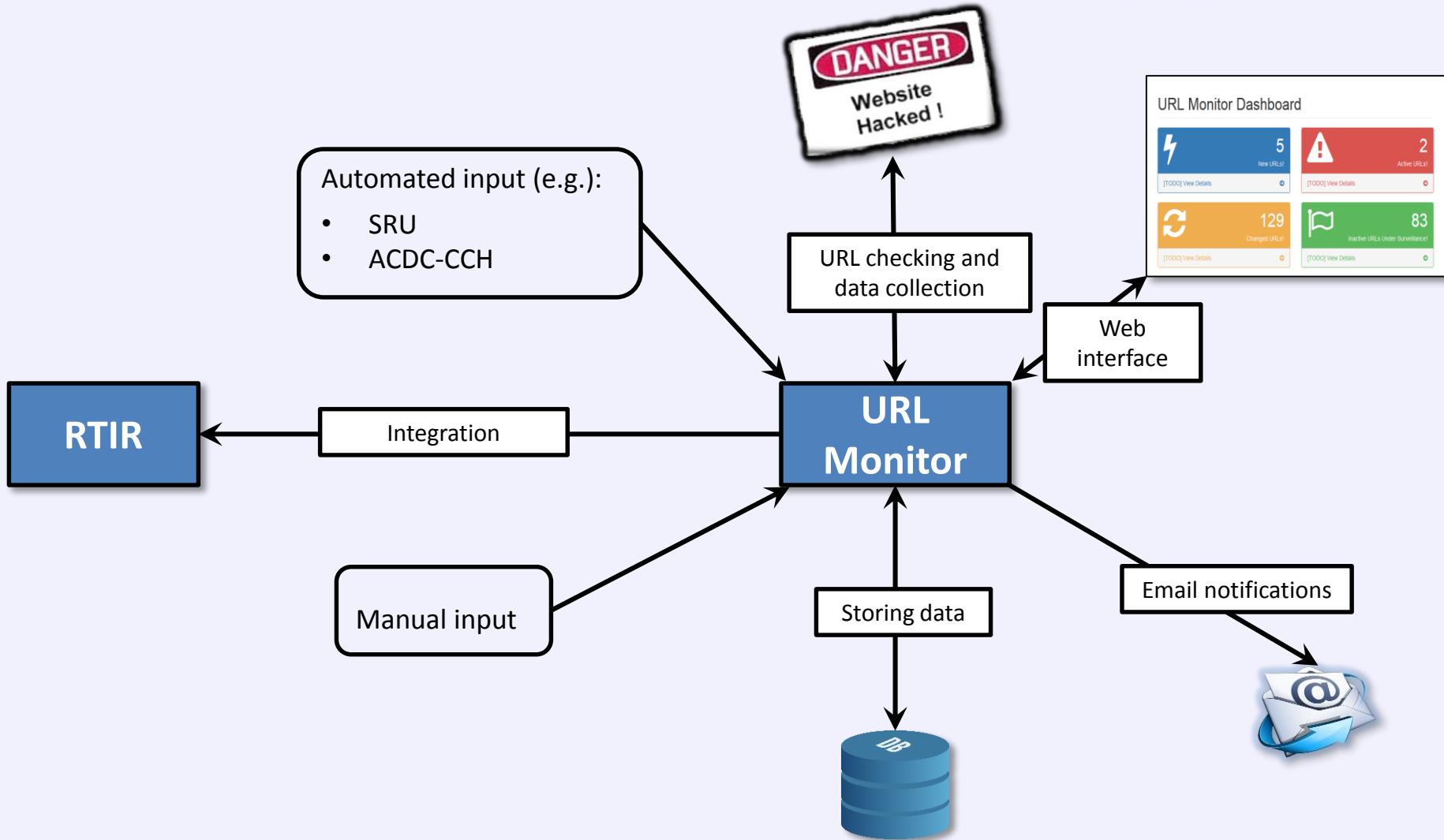


# URL Monitor



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# URL Monitor Dashboard



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URL Monitor beta

- Dashboard
- Monitored URLs
- Statistics

## URL Monitor Dashboard

**New URLs:** 2 [TODO] View Details

**Active URLs:** 6 [TODO] View Details

**Changed URLs:** 4 [TODO] View Details

**Inactive URLs Under Surveillance:** 10 [TODO] View Details

URL	URL Type	State	Last Change
[REDACTED]	Web Defacement	NEW	4. svibnja 2016. 13:07
[REDACTED]	Web Defacement	ACTIVE	4. svibnja 2016. 12:40
[REDACTED]	Malware URL	NEW	4. svibnja 2016. 12:07
[REDACTED]	Phishing URL	ACTIVE	4. svibnja 2016. 04:40
[REDACTED]	Phishing URL	INACTIVE	3. svibnja 2016. 23:07
[REDACTED]	Phishing URL	INACTIVE	3. svibnja 2016. 23:07
[REDACTED]	Phishing URL	INACTIVE	3. svibnja 2016. 23:07
[REDACTED]	Malware URL	INACTIVE	3. svibnja 2016. 16:00
[REDACTED]	Malware URL	INACTIVE	3. svibnja 2016. 12:15
[REDACTED]	Malware URL	INACTIVE	3. svibnja 2016. 11:30

[View All URLs](#)

**Notifications Panel**

- New URL - [REDACTED] 4. svibnja 2016. 13:07
- Active URL - [REDACTED] 4. svibnja 2016. 12:40
- Inactive URL - [REDACTED] 4. svibnja 2016. 12:30
- New URL - [REDACTED] 4. svibnja 2016. 12:07
- Active URL - [REDACTED] 4. svibnja 2016. 04:40
- Inactive URL - [REDACTED] 4. svibnja 2016. 01:00
- Inactive URL - [REDACTED] 3. svibnja 2016. 23:07
- Inactive URL - [REDACTED] 3. svibnja 2016. 23:07
- Active URL - [REDACTED] 3. svibnja 2016. 20:40

[TODO] View All Events

**Chart: URL Type**  
last 15 days

Type	Percentage
Web Defacement	46.34%
Malware URL	36.59%
Phishing URL	17.07%

**Chart: URL Trend**  
last 15 days

Date	Number of URLs
2016-04-19	~1
2016-04-20	~2
2016-04-21	~12
2016-04-22	~1
2016-04-23	~1
2016-04-24	~2
2016-04-25	~3
2016-04-26	~2
2016-04-27	~3
2016-04-28	~4
2016-04-29	~3
2016-04-30	~5
2016-05-01	~4
2016-05-02	~4

Collected URLs

# URL details



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URL Details

**INACTIVE**

<b>URL:</b>	<b>IP Address:</b>
<input type="text" value="REDACTED"/>	<input type="text" value="REDACTED"/>
<b>URL Type:</b>	<b>Domain:</b>
Phishing URL	<input type="text" value="REDACTED"/>
<b>Source:</b>	<b>DNS Data:</b>
SRU	<input type="text" value="REDACTED"/>
<b>Frequency:</b>	<b>Redirect URL:</b>
<input type="button" value="-"/> 60 <input type="button" value="+"/>	<input type="text" value="REDACTED"/>
<b>Country Code:</b>	<b>Customer:</b>
FR	<input type="text" value="REDACTED"/>
<b>Monitor Type:</b>	
MD5 Hash	<input type="button" value="▼"/>

**Save Changes**

# URL log



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URL Log

Show 10 entries Search:

State	Status Code	Screenshot	MD5 Hash	File Type	File	Last change	Actions
changed	200		7aeb47b912a8099048eef1239e74ff73	text/html		11/05/2016 - 00:40	
inactive	Unreachable					10/05/2016 - 20:45	
active	200		7aeb47b912a8099048eef1239e74ff73	text/html		04/05/2016 - 20:40	
inactive	Unreachable					04/05/2016 - 17:30	
active	200		7aeb47b912a8099048eef1239e74ff73	text/html		04/05/2016 - 04:40	
inactive	Unreachable					04/05/2016 - 01:00	
active	200		7aeb47b912a8099048eef1239e74ff73	text/html		03/05/2016 - 08:07	

Showing 1 to 7 of 7 entries

[< Previous](#) [1](#) [Next >](#)

# Web defacements



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# Phishing sites



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To view shared document, you are required to  
Login with your email address below.  
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YAHOO! Gmail

Doc Slides

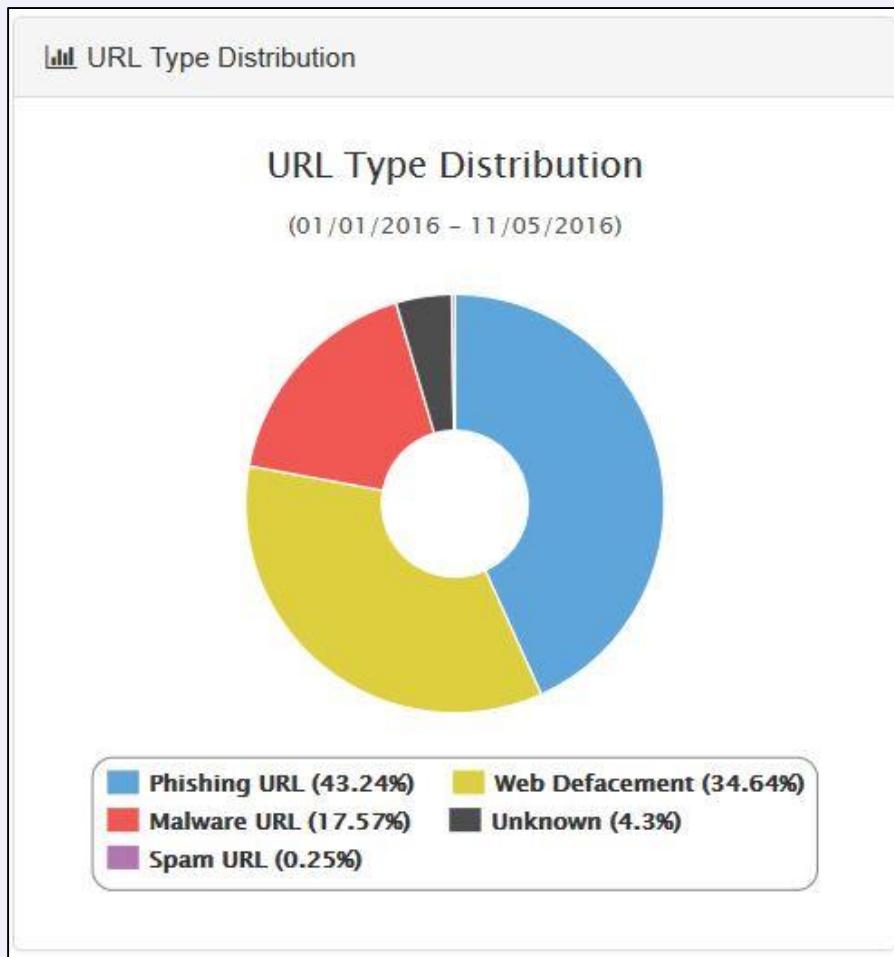
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# URL distribution



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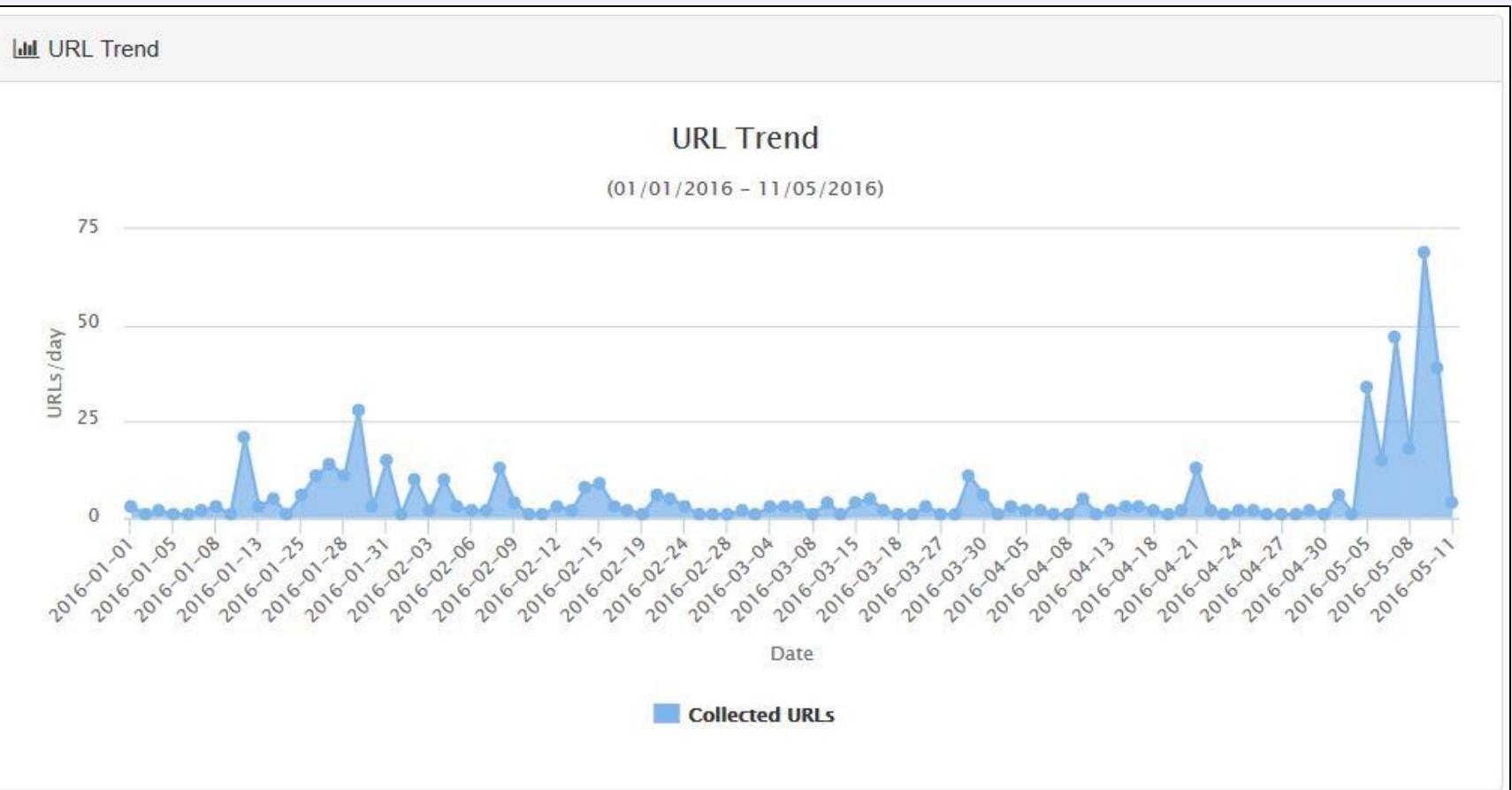


# URL trend



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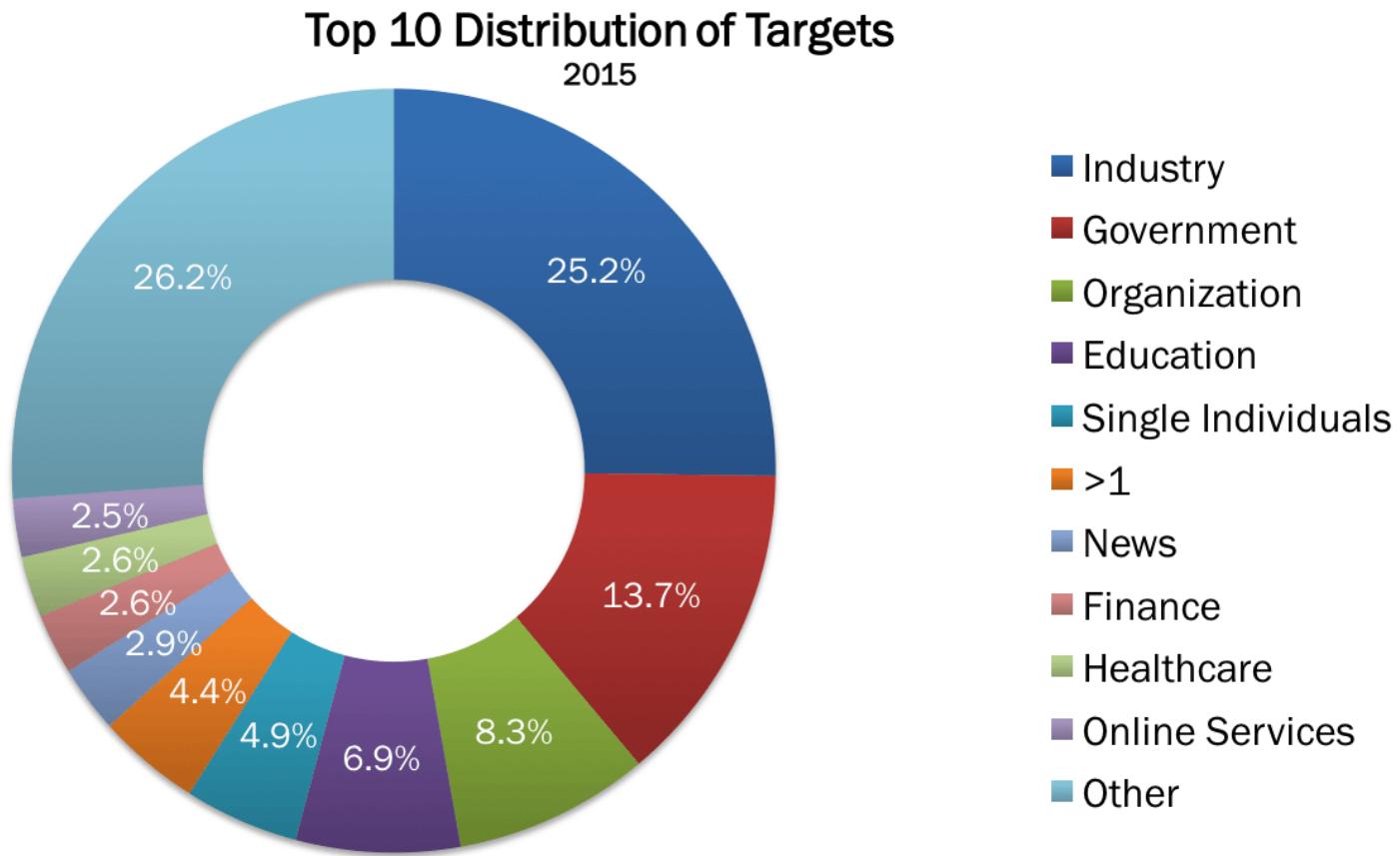




- Služi za učenje, podučavanje i istraživanje
- Otvorenost – slabo postavljene sigurnosne mjere
- Veliki broj korisnika – učenici, studenti, nastavno osoblje, vanjski suradnici...
- Napredna računalno-komunikacijska tehnologija
- Veliki kapaciteti linkova



- Mreže obrazovnih i akademskih zajednica jedne od najzanimljivijih meta napada
- Prema raznim istraživanjima pri samom vrhu prema broju napada na internetu
- Najčešće nisu krajnji cilj
- Izvođenje dalnjih napada



(Izvor: [www.hackmageddon.com](http://www.hackmageddon.com))

SPORt



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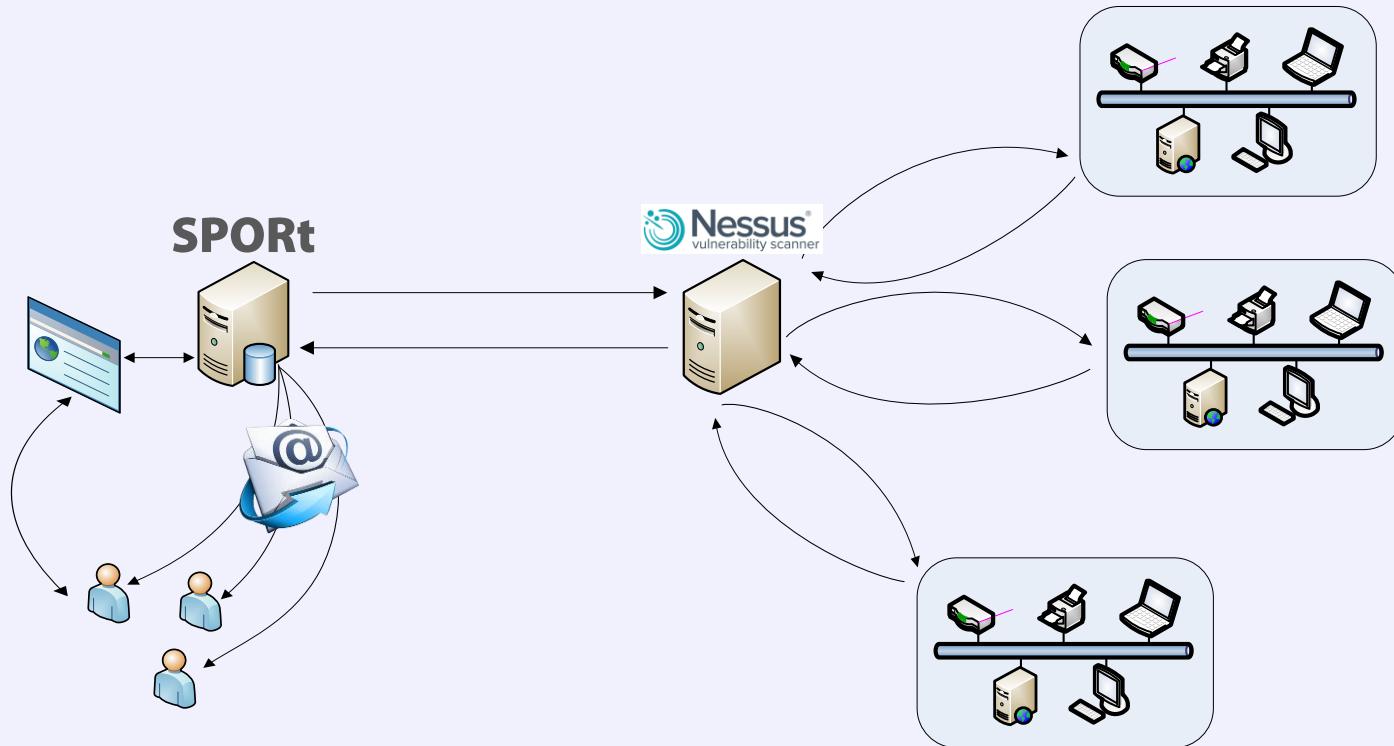


# SPORt



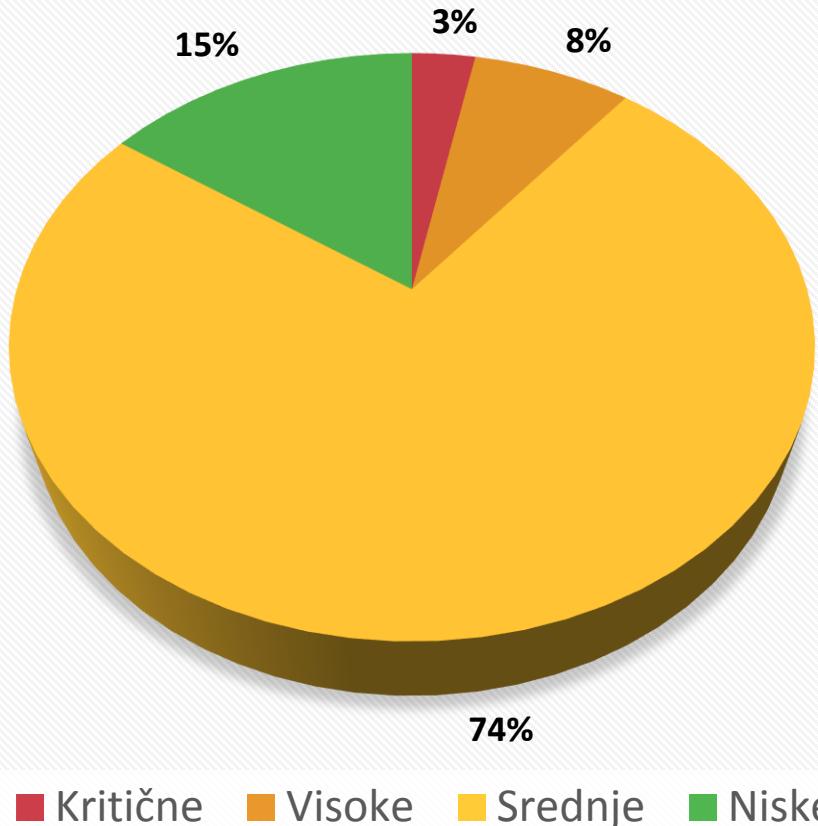
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## Pregled ranjivosti po razinama



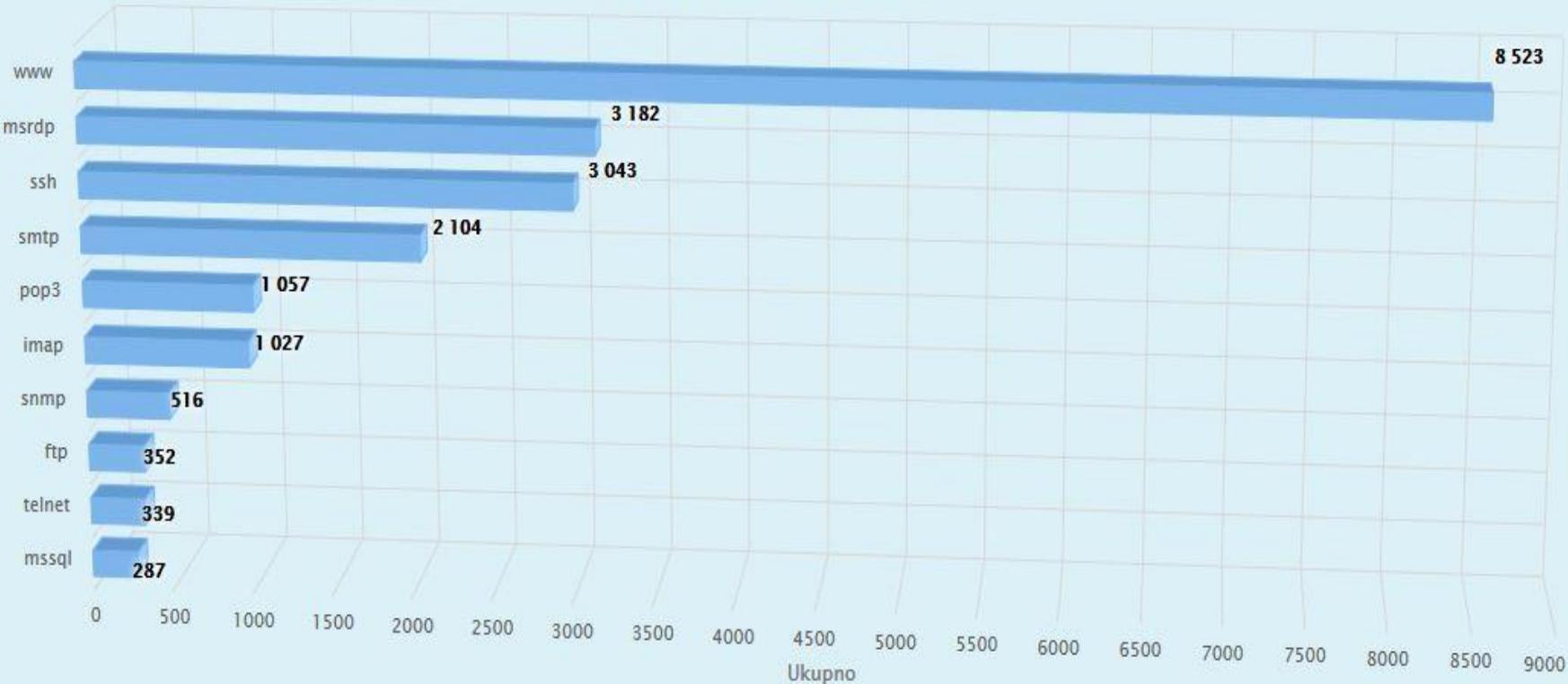
Level	Number	Percentage
Kritične	706	3%
Visoke	1760	8%
Srednje	17007	74%
Niske	3509	15%
<b>Total</b>	<b>22982</b>	<b>100%</b>



## Pregled ranjivih servisa



Tip ustanove: Sve ustanove (Travanj, 2016.)

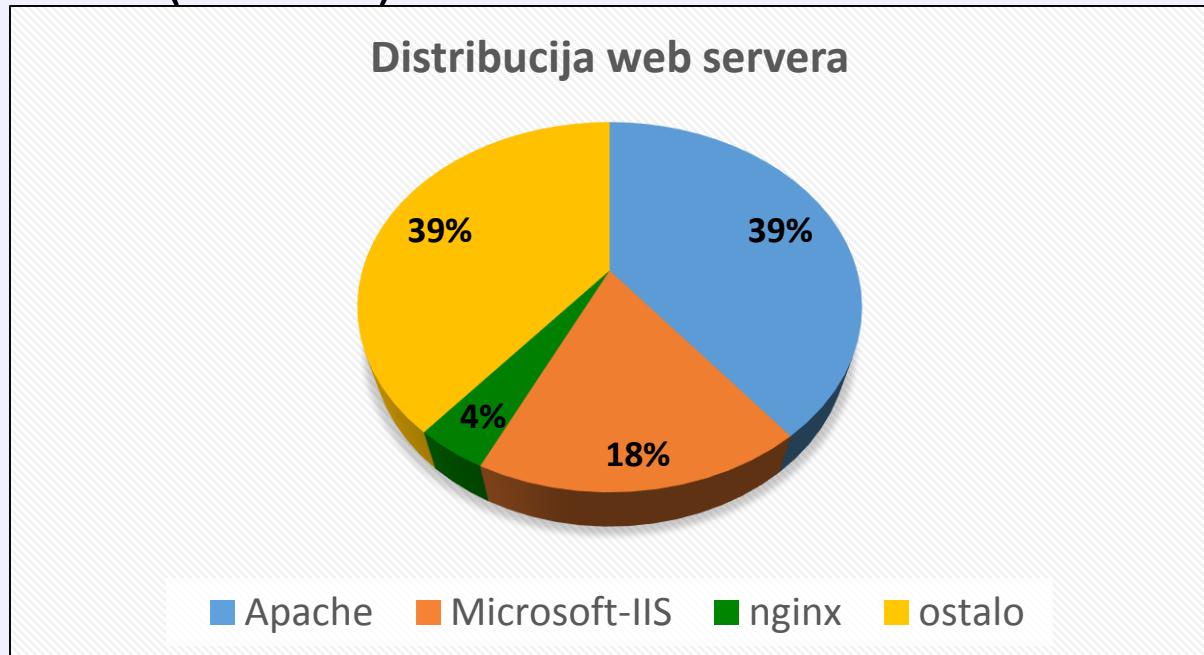




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- 5456 javno dostupnih adresa
- 1817 detektirano kao web server
  - 716 Apache
  - 321 Microsoft-IIS (5.0 - 10)
  - 71 nginx





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- Ranjivosti **kritične** razine:
  - OS sa isteklom podrškom (Windows/Unix)
  - Nepodržani i zastarjeli programski paketi
- Ranjivosti **visoke** razine:
  - Ranjivi servisi i programski paketi (Apache, PHP, OpenSSL, RDP...)
  - msrdp Remote Code Execution



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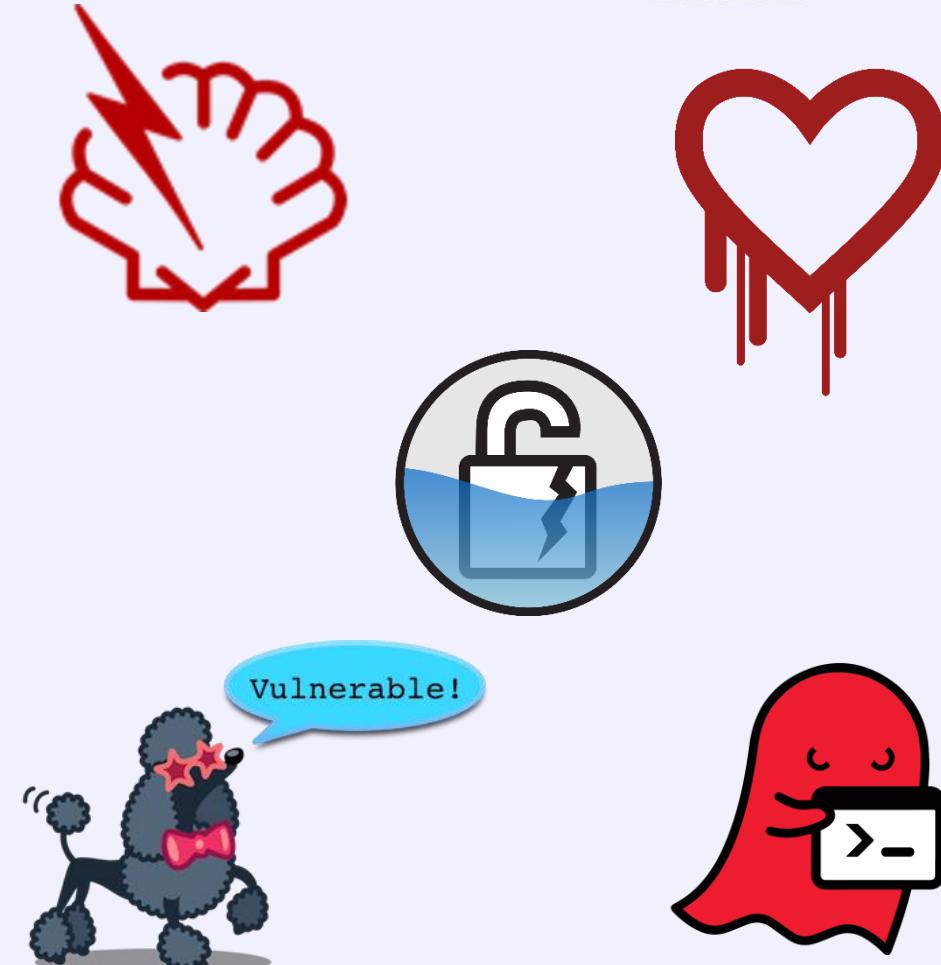
- Ranjivosti **srednje** razine:
  - korištenje SSL v2/v3 protokola
  - msrdp MITM ranjivosti
  - Problemi sa SSL certifikatima (self-signed/expired)
  - DNS server spoofed request amplification DDoS
- Ranjivosti **niske** razine:
  - Korištenje slabih kriptografskih algoritama
  - Clear Text Authentication (FTP, SMTP, POP3)



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- Shellshock
- Logjam
- BEAST
- Heartbleed
- DROWN
- GHOST
- Bar Mitzvah
- POODLE
- FREAK





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„The only truly secure system is one that is powered off,  
cast in a block of concrete and sealed in a lead-lined room  
with armed guards - and even then I have my doubts.”

- Eugene H. Spafford



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# Hvala na pažnji!

