

Yandex reward program

ONsec experience

DEFCON Russia, DCG-7812

21/02/2013 Saint-Petersburg, Yandex

History of Yandex rewards

- 2011, October November: Yandex's Month of Security Bugs
- Prizes:
 - 1-st @d0znpp (@ONsec_Lab)
 - 2-nd @ASintsov
 - 3-rd @kyprizel (now in Yandex team)

History of Yandex rewards

- 2011, October November: Yandex's Month of Security Bugs
- Bugs:
 - 1-st Massive XXE
 - 2-nd Auth bypass at mail service
 - 3-rd CSRF/XSS collection at auth system

What about now?

- Bug bounty program every time
- http://company.yandex.com/security/
- From \$100 (A06,10) to \$1000 (A01) per bug
- OWASP Top-10 based rating

@ONsec_Lab bugs stats

Only server-side - only hardcode!!!

- 20 bugs accepted
- 1 reject as a double
- 11 qualified bugs
- 9 bugs at progress
- 240'000 rub approved, 80'000 paid rewards
- 21'818 rub per bug average (\$715)

What about bugs?

All our bugs are server-side:

- XXE against nothing interesting
- Memcached injections through SSRF
- Nice "RCE" story
- Great SSRFs for HITB2013AMS (not now)

Memcached injection through SSRF

All theory described at our ZeroNights

report: www.slideshare.net/d0znpp/ssrf-attacks-and-sockets-smorgasbord-of-

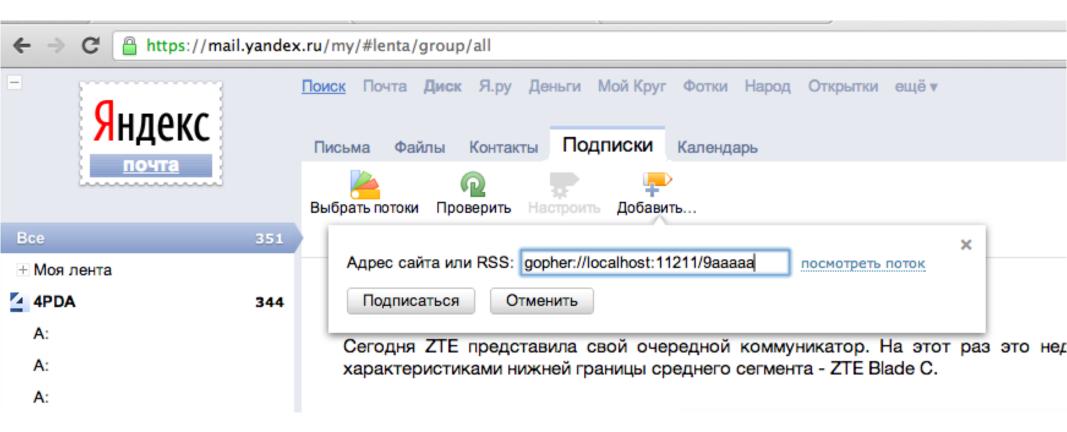
vulnerabilities

• Find possibility to write in sockets:

ANYPREFIX\nyoudata\nANYPOSTFIX

Write it to localhost 11211 port - easy!

Memcached injection through SSRF



Nice "RCE" story: stages

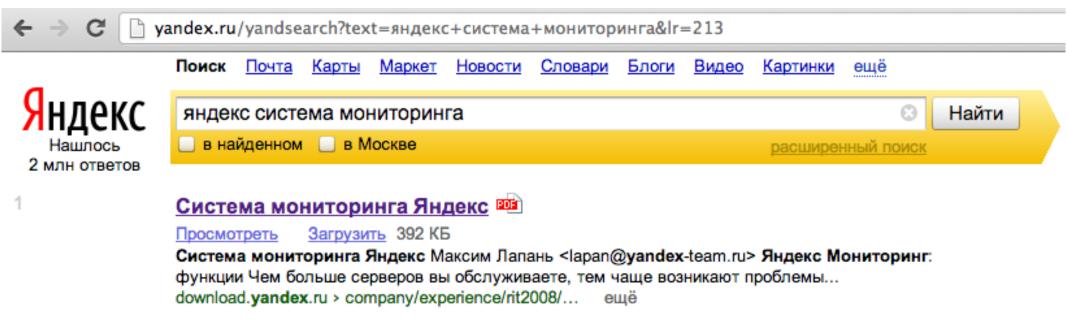
- Determine target
- Find information leaks
- Find vulns
- Find SSRF to exploit vulns
- Exploit vuln through SSRF

Determine target

- Have connections from anywhere in infrastructure
- Have information about all infrastructure
- Monitoring system!

Find information leaks

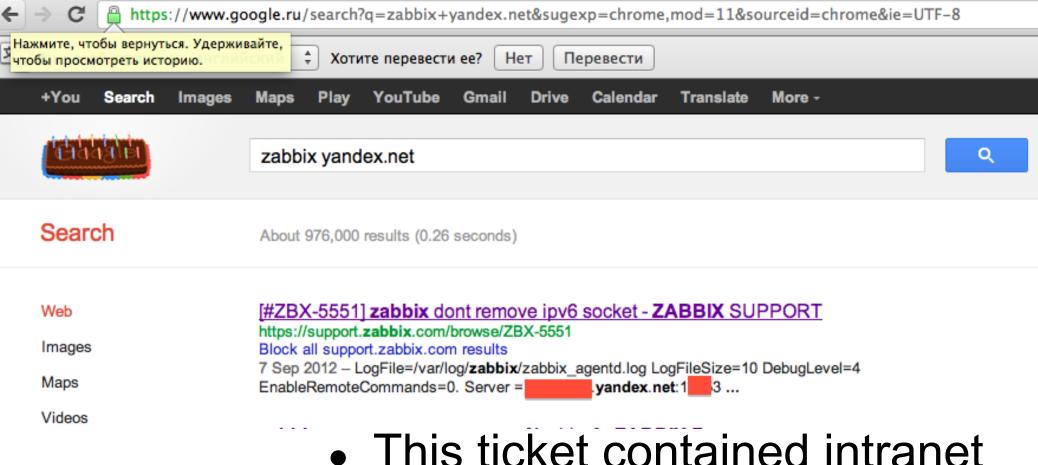
Use Yandex to hack Yandex:



This presentation contain info about Zabbix

Find information leaks

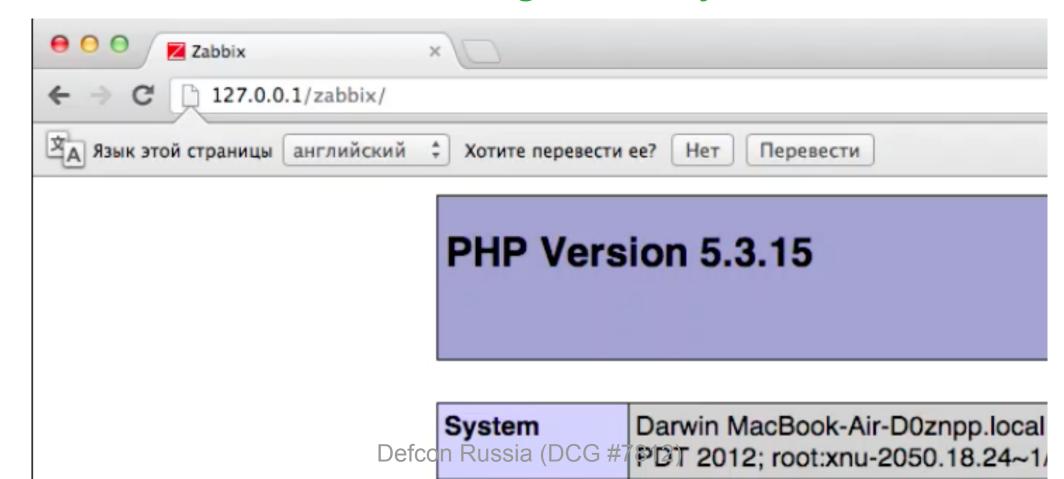
Use Google to hack Yandex:



host of Zabbix in Yandex

Find vulns in Zabbix

- Zabbix RCE vulnerability were found
- Presented at ZeroNights 0day show



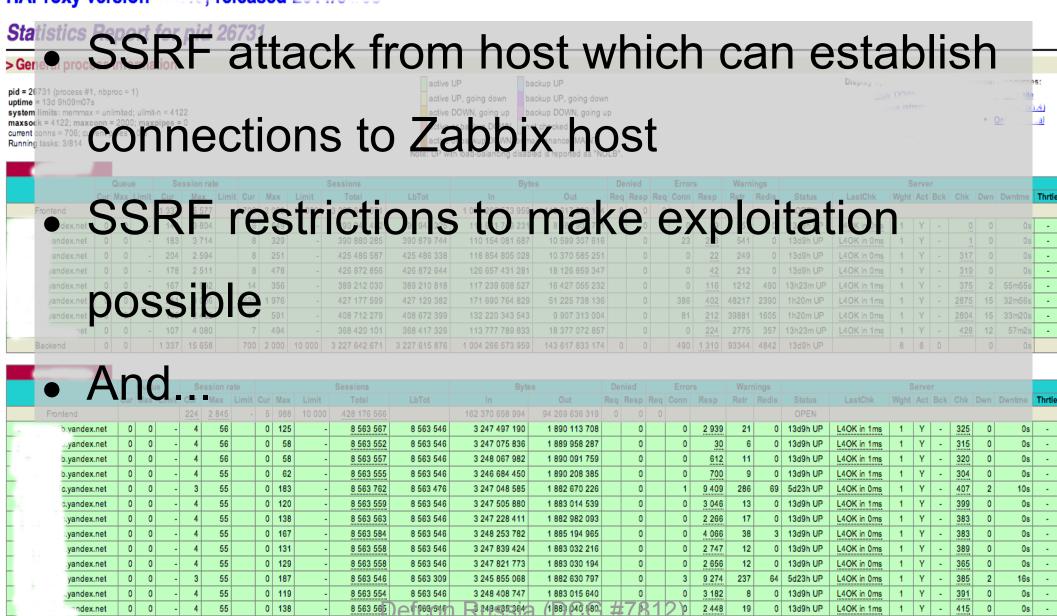
Find SSRF and exploit it!

HAProxy version (- . ! C, released 2011/Carol

vandex.net

0 169

8 563 589



3 248 345 846

1 885 248 735

4 242

13d9h UP

0s



Not this time;(

- Our Zabbix RCE exploit doesn't work at Debian systems
- Yandex's zabbix was based on Debian or manually configured
- But we have come a long way and it is worth a look!

We did not give up! NEVER GIVE UP!

More exploits and

vulns later

Follow us at
 HITB2013AMS



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