Отчет по практической работе 2

Николаев Михаил Андреевич, БИБ232

Откуда взял домены?

С сайта crt.sh

Сначала сделал запрос vk.com, оттуда получил не настолько понятный вывод. Затем сделал запрос "V kontakte", что дало вывод удобнее и более читаемым. Но тоже недостаточное количество там было. Потому я сделал запрос "VK LCC", откуда добрал нужное количество доменов.

Как производилась проверка на принадлежность домена к VK?

При помощи питон скрипта, вызывающего команду openssl, и проверяющую там сертификат на принадлежность к ВК. ниже будет скрипт и его вывод.

Скрипт:

```python
import subprocess

def read_domains(filename="Nikolaev_Mikhail_domains.txt"):
    with open(filename, "r", encoding="utf-8") as f:
        domains = [line.strip() for line in f if line.strip()]
    return domains


def check_cert(domain):
    print("\\/"*40)
    print(f"Checking domain {domain}")
    try:
        result = subprocess.check_output(f"openssl s_client -connect {domain}:443 -s
    except:
        result = ""
    start = result.find("Certificate chain")
    end = result.find("-----BEGIN CERTIFICATE-----")

    if start != -1 and end != -1:
        snippet = result[start:end].strip().split("\n")
        start_snippet = snippet[1].find("O=")
        end_snippet = snippet[1].find(", CN=")
        org = snippet[1][start_snippet:end_snippet].strip()
        print(org)
        cert_time = snippet[-1].strip()
```

```python
            print(cert_time)
            if org == "O=V Kontakte LLC" or org == "O=VK LLC" or org == "O=VK, OU=VK":
                print(f"\033[92m{domain} IS CORRECT\033[0m")
                return True
            print(f"\033[91m{domain} IS NOT CORRECT\033[0m")
            return False
        else:
            print(f"\033[93m{domain} info not found\033[0m")
            return False


counter = 0
checked_domains = set()
for d in read_domains():
    if d in checked_domains:
        print(f"\033[93m{d} уже проверен, пропускаю\033[0m")
        continue
    checked_domains.add(d)
    if check_cert(d)==True:
        counter += 1


print(counter)
```

Вывод скрипта:

```
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain adblogger.vk.com
O=VK LLC
v:NotBefore: Sep 23 16:32:04 2025 GMT; NotAfter: Oct 25 15:08:12 2026 GMT
adblogger.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain vk.com
O=V Kontakte LLC
v:NotBefore: Feb 21 14:48:01 2025 GMT; NotAfter: Mar 18 14:26:05 2026 GMT
vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain bilets.vk.com
O=V Kontakte LLC
v:NotBefore: Feb 21 14:48:01 2025 GMT; NotAfter: Mar 18 14:26:05 2026 GMT
bilets.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain bilety.vk.com
O=V Kontakte LLC
v:NotBefore: Feb 21 14:48:01 2025 GMT; NotAfter: Mar 18 14:26:05 2026 GMT
bilety.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain gid.vk.com
O=V Kontakte LLC
v:NotBefore: Jul 22 08:51:06 2025 GMT; NotAfter: Aug 23 08:51:05 2026 GMT
```

```
gid.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain tickets.vk.com
O=V Kontakte LLC
v:NotBefore: Jul 22 08:51:06 2025 GMT; NotAfter: Aug 23 08:51:05 2026 GMT
tickets.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain maps.vk.com
O=V Kontakte LLC
v:NotBefore: Feb  7 12:21:01 2025 GMT; NotAfter: Mar 11 12:21:00 2026 GMT
maps.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain cloud.vk.com
O=V Kontakte LLC
v:NotBefore: Nov 26 12:06:02 2024 GMT; NotAfter: Dec 28 12:06:01 2025 GMT
cloud.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain expert.vk.com
O=V Kontakte LLC
v:NotBefore: Oct 24 09:31:10 2024 GMT; NotAfter: Nov 25 09:31:09 2025 GMT
expert.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain board.vk.com
O=V Kontakte LLC
v:NotBefore: Sep  3 06:56:02 2025 GMT; NotAfter: Oct  5 06:56:01 2026 GMT
board.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain rabota.vk.com
O=V Kontakte LLC
v:NotBefore: Oct  1 13:26:04 2024 GMT; NotAfter: Nov  2 13:26:03 2025 GMT
rabota.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain ord.vk.com
O=V Kontakte LLC
v:NotBefore: Sep 25 09:06:01 2024 GMT; NotAfter: Oct 27 09:06:00 2025 GMT
ord.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain publisher.vk.com
O=V Kontakte LLC
v:NotBefore: Sep 19 11:21:02 2024 GMT; NotAfter: Oct 21 11:21:01 2025 GMT
publisher.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain cs7777.vk.com
O=V Kontakte LLC
v:NotBefore: Jul 22 11:12:02 2025 GMT; NotAfter: Mar 11 14:46:00 2026 GMT
cs7777.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain mvk.com
O=V Kontakte LLC
v:NotBefore: Jul 22 11:12:02 2025 GMT; NotAfter: Mar 11 14:46:00 2026 GMT
mvk.com IS CORRECT
```

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\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain storage-stage.mvk.com
O=V Kontakte LLC
v:NotBefore: Jul 22 11:12:02 2025 GMT; NotAfter: Mar 11 14:46:00 2026 GMT
storage-stage.mvk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain storage.mvk.com
O=V Kontakte LLC
v:NotBefore: Jul 22 11:12:02 2025 GMT; NotAfter: Mar 11 14:46:00 2026 GMT
storage.mvk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain dis.vk.com
O=V Kontakte LLC
v:NotBefore: Jul 15 08:11:02 2025 GMT; NotAfter: Aug 16 08:11:01 2026 GMT
dis.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain mna.vk.com
O=V Kontakte LLC
v:NotBefore: Jul  8 14:16:02 2025 GMT; NotAfter: Aug  9 14:16:01 2026 GMT
mna.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain tutoria.vk.com
O=V Kontakte LLC
v:NotBefore: Apr 21 16:31:01 2025 GMT; NotAfter: May 23 16:31:00 2026 GMT
tutoria.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain studio.vk.com
O=V Kontakte LLC
v:NotBefore: Apr  8 08:56:17 2025 GMT; NotAfter: May 10 08:56:16 2026 GMT
studio.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain teams.vk.com
O=V Kontakte LLC
v:NotBefore: Mar 13 09:21:02 2025 GMT; NotAfter: Apr 14 09:21:01 2026 GMT
teams.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain capsula.vk.com
O=V Kontakte LLC
v:NotBefore: Nov 27 10:16:02 2024 GMT; NotAfter: Dec 29 10:16:01 2025 GMT
capsula.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain dobro.vk.com
O=V Kontakte LLC
v:NotBefore: Mar  5 07:51:12 2025 GMT; NotAfter: Apr  6 07:51:11 2026 GMT
dobro.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain music.vk.com
O=V Kontakte LLC
v:NotBefore: Feb 28 11:11:01 2025 GMT; NotAfter: Apr  1 11:11:00 2026 GMT
music.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
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Checking domain ads.vk.com
O=V Kontakte LLC
v:NotBefore: Feb 28 09:31:02 2025 GMT; NotAfter: Apr  1 09:31:01 2026 GMT
ads.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain tech.vk.com
O=V Kontakte LLC
v:NotBefore: Jan 13 09:31:02 2025 GMT; NotAfter: Feb 14 09:31:01 2026 GMT
tech.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain m.vk.com
O=V Kontakte LLC
v:NotBefore: Feb 21 14:48:01 2025 GMT; NotAfter: Mar 18 14:26:05 2026 GMT
m.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain marusia.vk.com
O=V Kontakte LLC
v:NotBefore: Nov 27 12:42:01 2024 GMT; NotAfter: Dec 29 12:31:01 2025 GMT
marusia.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain cvc.vk.com
O=V Kontakte LLC
v:NotBefore: Feb 21 14:48:01 2025 GMT; NotAfter: Mar 18 14:26:05 2026 GMT
cvc.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain push.vk.com
O=V Kontakte LLC
v:NotBefore: Feb 21 14:48:01 2025 GMT; NotAfter: Mar 18 14:26:05 2026 GMT
push.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain vkube.vk.com
O=VK, OU=VK
v:NotBefore: Jul 13 15:25:19 2022 GMT; NotAfter: Aug 24 15:25:19 2052 GMT
vkube.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain sferum.ru
O=V Kontakte LLC
v:NotBefore: Feb  7 16:36:10 2025 GMT; NotAfter: Mar 11 16:36:09 2026 GMT
sferum.ru IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain userapi.com
O=V Kontakte LLC
v:NotBefore: Feb  7 16:17:01 2025 GMT; NotAfter: Mar 11 14:51:00 2026 GMT
userapi.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain browser.vk.com
O=V Kontakte LLC
v:NotBefore: Feb 21 14:48:01 2025 GMT; NotAfter: Mar 18 14:26:05 2026 GMT
browser.vk.com IS CORRECT
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
Checking domain miniapps.dev
```

O=V Kontakte LLC
v:NotBefore: Feb 7 16:46:10 2025 GMT; NotAfter: Mar 11 16:46:09 2026 GMT
miniapps.dev IS CORRECT
\/
Checking domain boom.ru
O=V Kontakte LLC
v:NotBefore: Mar 18 13:21:02 2025 GMT; NotAfter: Apr 19 13:21:01 2026 GMT
boom.ru IS CORRECT
\/
Checking domain odkl.ru
O=VK LLC
v:NotBefore: Jul 29 14:38:03 2025 GMT; NotAfter: Oct 12 10:36:45 2025 GMT
odkl.ru IS CORRECT
\/
Checking domain xmail.ru
O=VK LLC
v:NotBefore: Sep 16 12:46:13 2025 GMT; NotAfter: Oct 18 12:46:12 2026 GMT
xmail.ru IS CORRECT
\/
Checking domain vkteam.ru
O=VK LLC
v:NotBefore: Oct 24 13:41:03 2024 GMT; NotAfter: Nov 25 13:41:02 2025 GMT
vkteam.ru IS CORRECT
\/
Checking domain rustore.ru
O=VK LLC
v:NotBefore: May 12 07:38:17 2025 GMT; NotAfter: Jun 13 07:38:16 2026 GMT
rustore.ru IS CORRECT
\/
Checking domain afisha.mail.ru
O=VK LLC
v:NotBefore: Dec 25 09:12:26 2024 GMT; NotAfter: Jan 26 09:12:25 2026 GMT
afisha.mail.ru IS CORRECT
\/
Checking domain relap.io
O=VK LLC
v:NotBefore: Sep 8 10:21:02 2025 GMT; NotAfter: Oct 10 10:21:01 2026 GMT
relap.io IS CORRECT
\/
Checking domain apptracer.ru
O=VK LLC
v:NotBefore: Aug 18 17:26:07 2025 GMT; NotAfter: Sep 19 17:26:06 2026 GMT
apptracer.ru IS CORRECT
\/
Checking domain games.mail.ru
O=VK LLC
v:NotBefore: Oct 28 09:04:02 2024 GMT; NotAfter: Nov 29 09:04:01 2025 GMT
games.mail.ru IS CORRECT
\/
Checking domain browser.ru
O=VK LLC

v:NotBefore: Oct 28 09:05:13 2024 GMT; NotAfter: Nov 29 09:05:12 2025 GMT
browser.ru IS CORRECT
\/
Checking domain wok.mail.ru
O=VK LLC
v:NotBefore: Nov 8 14:06:49 2024 GMT; NotAfter: Dec 10 14:06:48 2025 GMT
wok.mail.ru IS CORRECT
\/
Checking domain clouder.pics
O=VK LLC
v:NotBefore: Aug 30 07:10:53 2024 GMT; NotAfter: Oct 1 07:10:52 2025 GMT
clouder.pics IS CORRECT
\/
Checking domain ok.ru
O=VK LLC
v:NotBefore: Jul 29 14:38:03 2025 GMT; NotAfter: Oct 12 10:36:45 2025 GMT
ok.ru IS CORRECT
\/
Checking domain phonewatcher.ru
O=VK LLC
v:NotBefore: Jul 28 09:46:07 2025 GMT; NotAfter: Aug 29 09:46:06 2026 GMT
phonewatcher.ru IS CORRECT
\/
Checking domain rum.dzen.ru
O=VK LLC
v:NotBefore: Jul 28 14:16:12 2025 GMT; NotAfter: Aug 29 14:16:11 2026 GMT
rum.dzen.ru IS CORRECT
\/
Checking domain dzen.ru
O=VK LLC
v:NotBefore: Jun 3 09:16:26 2025 GMT; NotAfter: Jul 5 09:16:25 2026 GMT
dzen.ru IS CORRECT