网络安全创新大会
Cyber Security Innovation Summit

我的一键 getshell 代码开发之路

Ali0th 斗象科技资深安全研究员

一、我是谁

一、我是谁

Ali0th

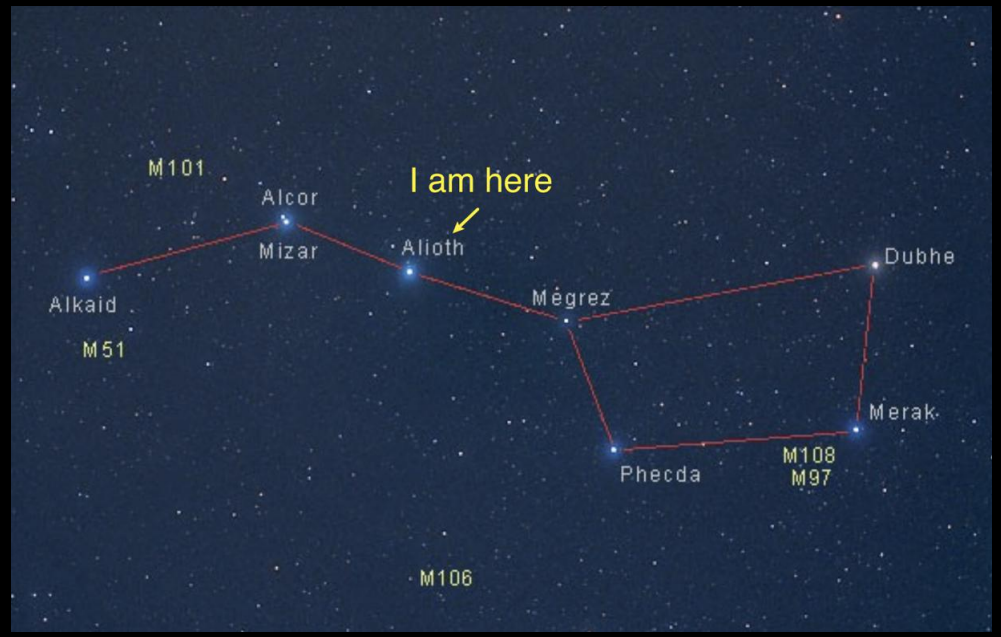
斗象科技资深安全研究员，熟悉领域有自动化渗透、流量安全检测、代码审计、区块链等。

GitHub github.com/Martin2877

一、我是谁


????
我是誰

Ali0th

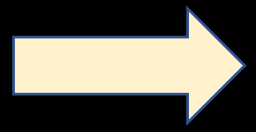

M101
Alcor
I am here
Mizar
Alioth
Dubhe
Alkaid
Mégrez
M51
Merak
Phecda
M108
M97
M106

挖洞 鸿沟 懒

挖洞：

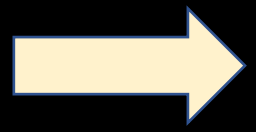
google dork

intext :hacked by
intitle: “web client: login”
inurl:/?op=register
…



PoC工具

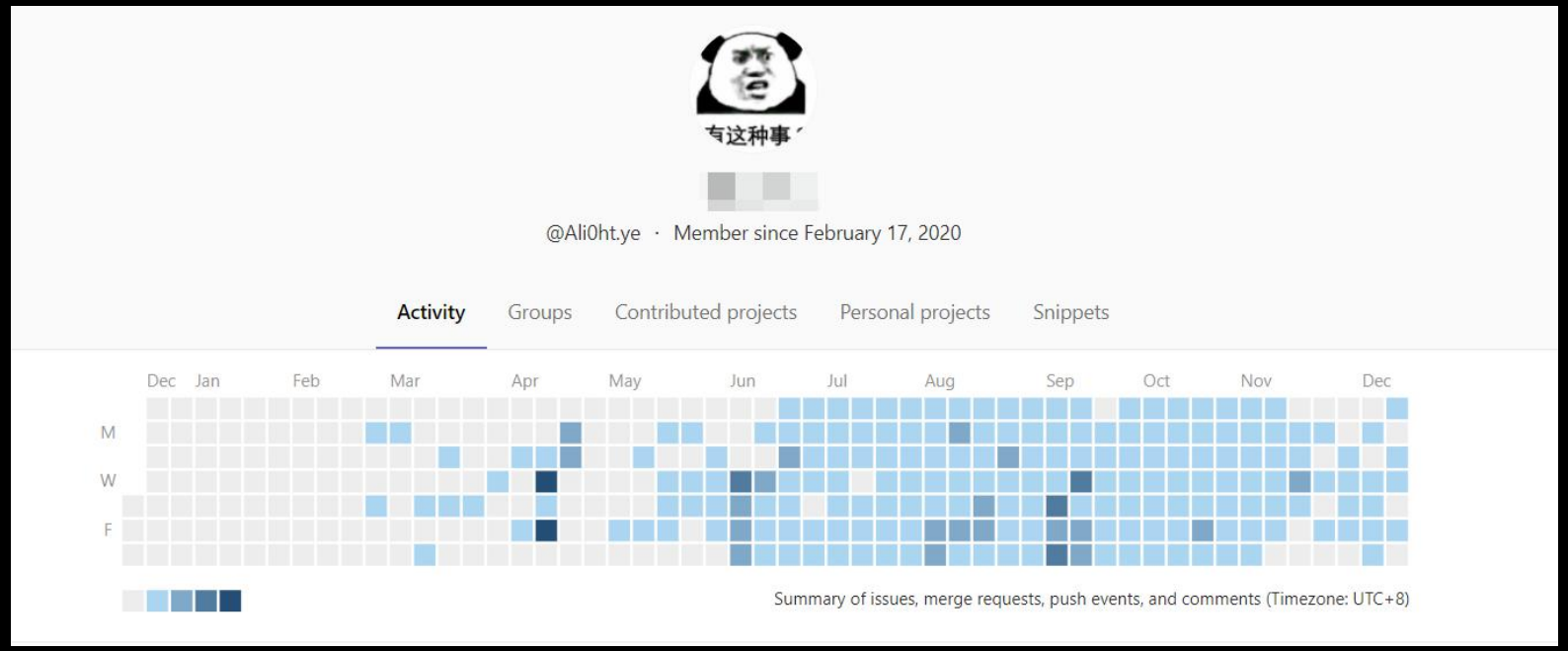
pocsuite
osprey
poc-T
…



(半)自动化渗透

AWVS
Appscan
Metasploit
…
GourdScanV2
w13scan
Xray
…

二、我的安全开发之路


有这种事
@Ali0ht.ye · Member since February 17, 2020
Activity
Groups
Contributed projects
Personal projects
Snippets
Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
M
W
F
Summary of issues, merge requests, push events, and comments (Timezone: UTC+8)


从幼稚
到成熟

探讨：

1、怎么样的代码才算一份合格的代码？
2、如何实现自动化渗透？
3、如何避免重复造轮子？

写一份好代码的秘籍是什么?

Class

def ...
def ...
def ...

class ...
class ...
class...

bad 

good 

复杂

```
for dp in range(1,self.depth):
    urls_new = self.comp(set(self.flat_list(list(map(self.url_html,urls_new)))))
    if len(urls_new) == 0:break
    if verbose : print("[result]urls_new:{0},self.urls:{1}".format(urls_new,self.urls))
    self.urls.extend(urls_new)
```

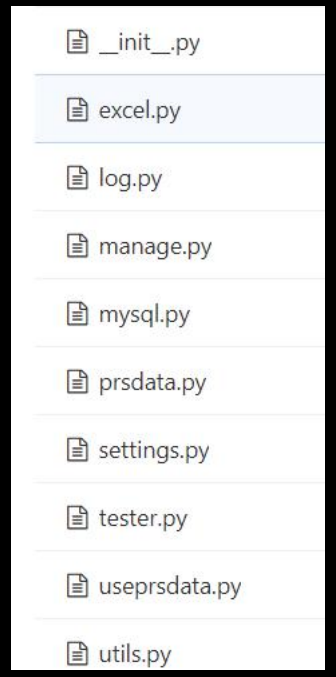
bad

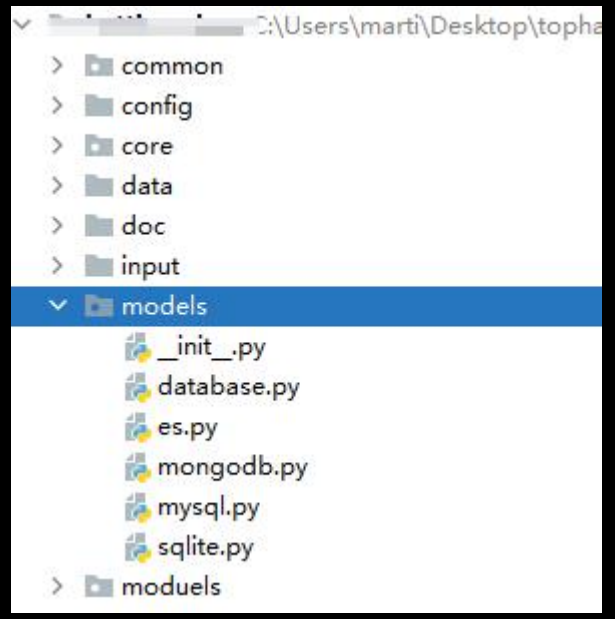
简单

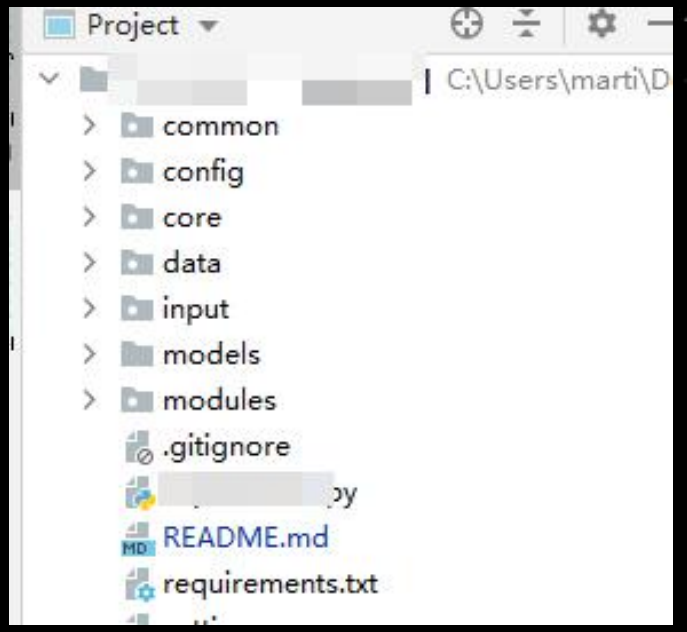
```
for a in list:
        Fun(a)
```

good

架构


__init__.py
excel.py
log.py
manage.py
mysql.py
prsdata.py
settings.py
tester.py
useprsdata.py
utils.py

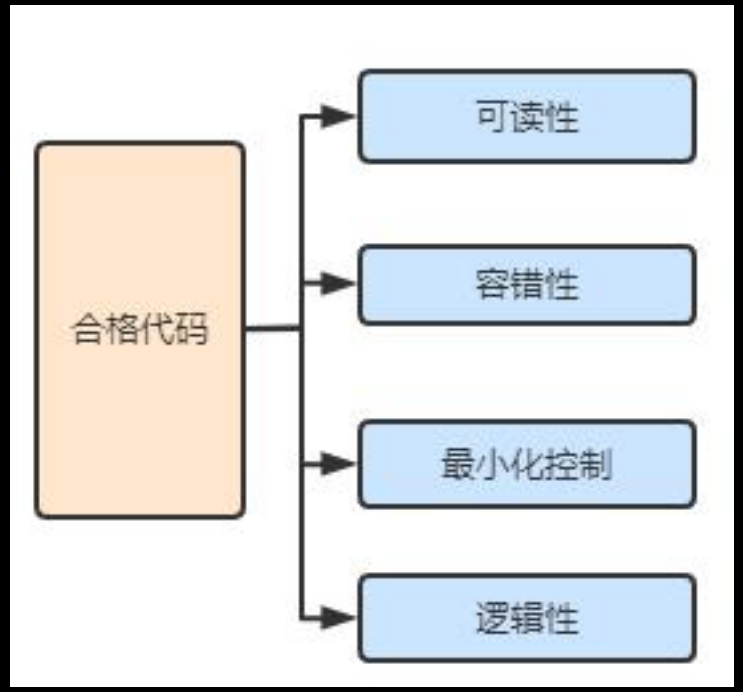

C:\Users\marti\Desktop\topha
common
config
core
data
doc
input
models
__init__.py
database.py
es.py
mongodb.py
mysql.py
sqlite.py
moduels


Project
C:\Users\marti\D
common
config
core
data
input
models
modules
.gitignore
README.md
requirements.txt

bad

good

1、怎么样的代码才算一份合格的代码?



如何实现自动化渗透和避免重复造轮子？

嫖

白嫖大军，使命必达

acunetix
WEB APPLICATION SECURITY

白嫖大军，使命必达

acunetix
WEB APPLICATION SECURITY

X·RAY

白嫖大军，使命必达

acunetix
WEB APPLICATION SECURITY

X·RAY

ARL 资产灯塔系统

白嫖大军，使命必达

acunetix
WEB APPLICATION SECURITY

X·RAY

资产灯塔系统

Pocsuite3

白嫖大军，使命必达

acunetix WEB APPLICATION SECURITY

X·RAY

资产灯塔系统

Pocsuite3

如何实现？

方法论： STP

Target:需求

Situation:现状

Solution:解决方案

如何实现？

Target	Situation	Solution
一键 Getshell	单类工具多 简单集成 半自动	a 收集目标 b 资产识别、爬虫 c 针对框架打 poc d 漏洞扫描 e 进一步深入利用漏洞 f 写 shell， 反弹 shell g 整体自动化 h 操作简单 i 体积小

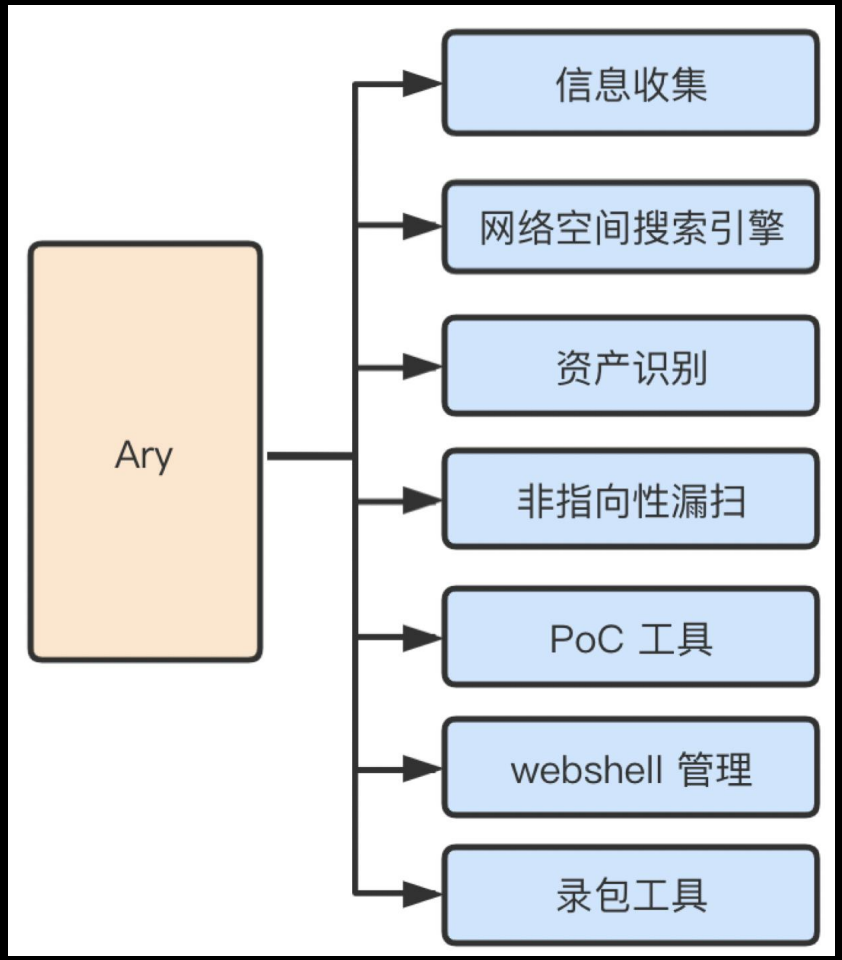
方法论： STP

四、自动化渗透

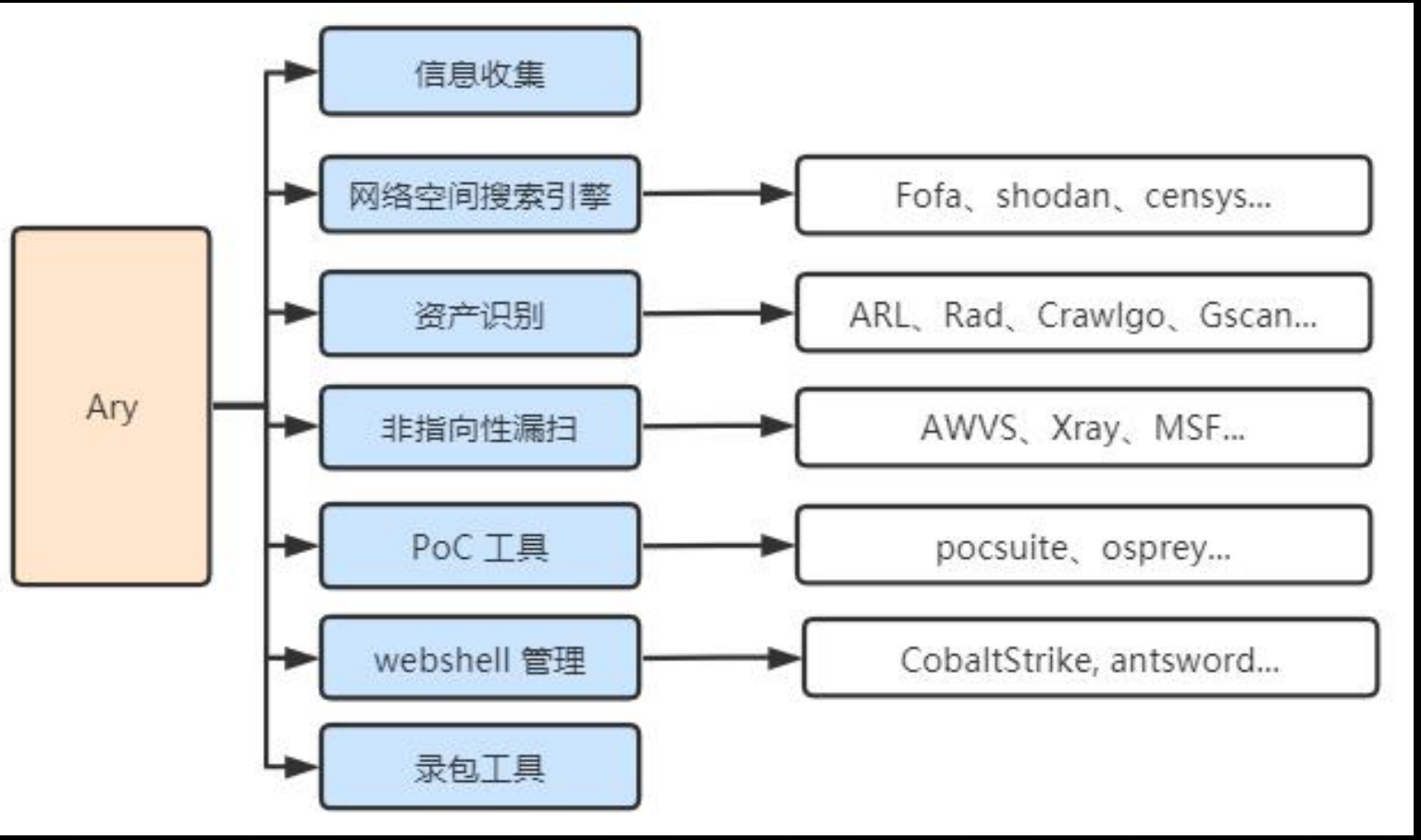
（可以理解 为 Armory 武器库缩写）

Ary 是一个集成类工具，主要用于调用各种安全工具，从而形成便捷的一键式渗透。

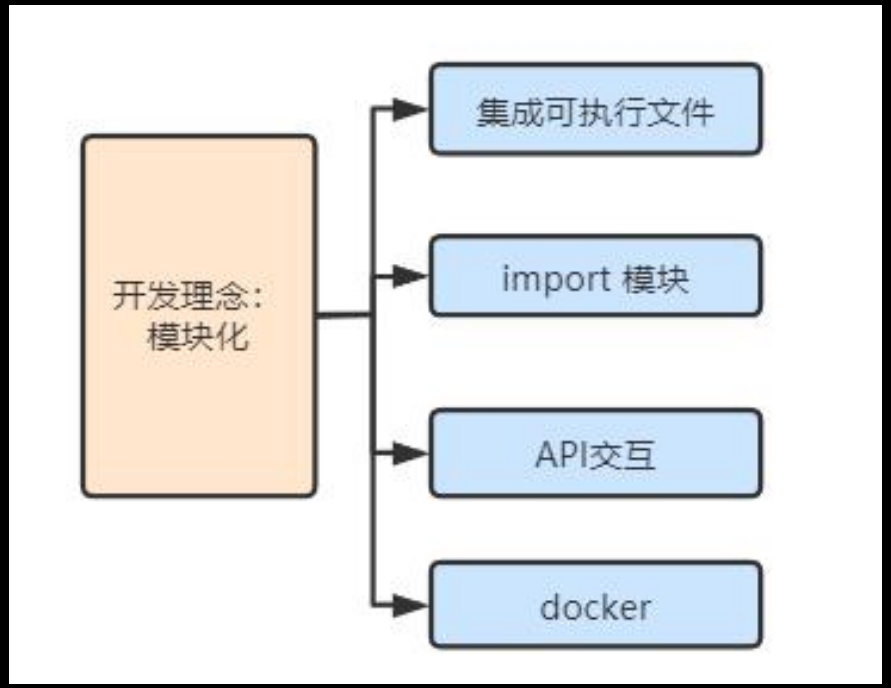
ARY



ARY


Ary
信息收集
网络空间搜索引擎
Fofa、shodan、censys...
资产识别
ARL、Rad、Crawlgo、Gscan...
非指向性漏扫
AWVS、Xray、MSF...
PoC 工具
pocsuite、osprey...
webshell 管理
CobaltStrike, antsword...
录包工具

ARY



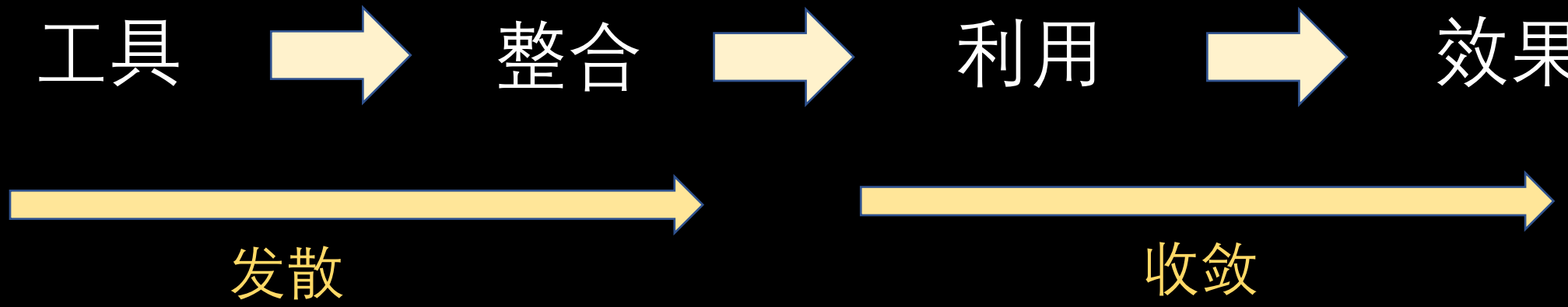
越简单越好

ARY

```
./ary --netsearch --engine shodan --keyword dedecms
./ary --assertscan --engine rad --url vulnweb.com -v
./ary --vulnscan --engine xray --url xx.xx.xx.xx –v
./ary --pocscan --input redis.txt --poc redis -v
```

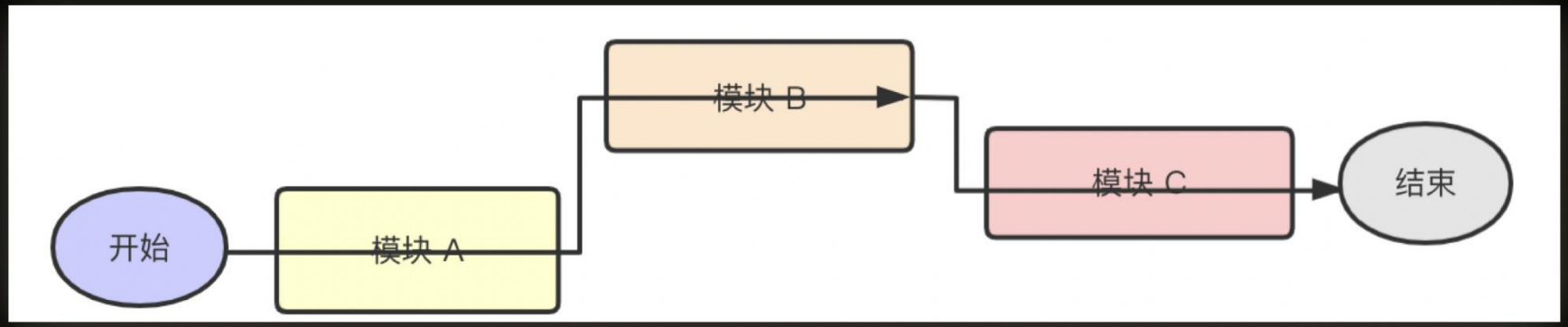
越简单越好

ARY

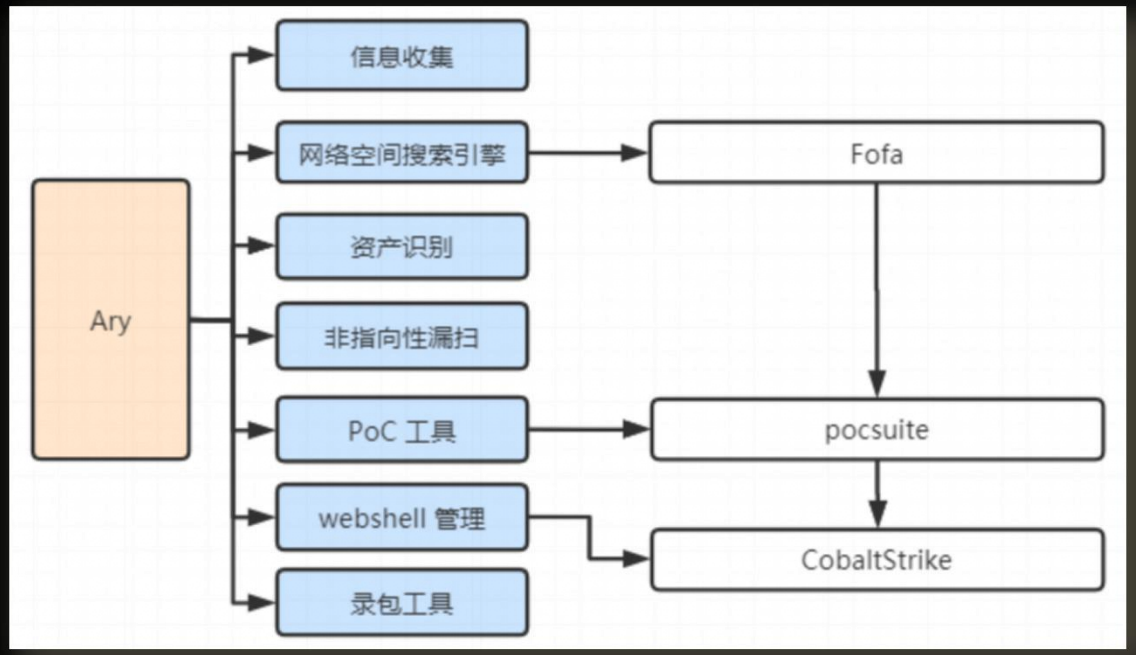


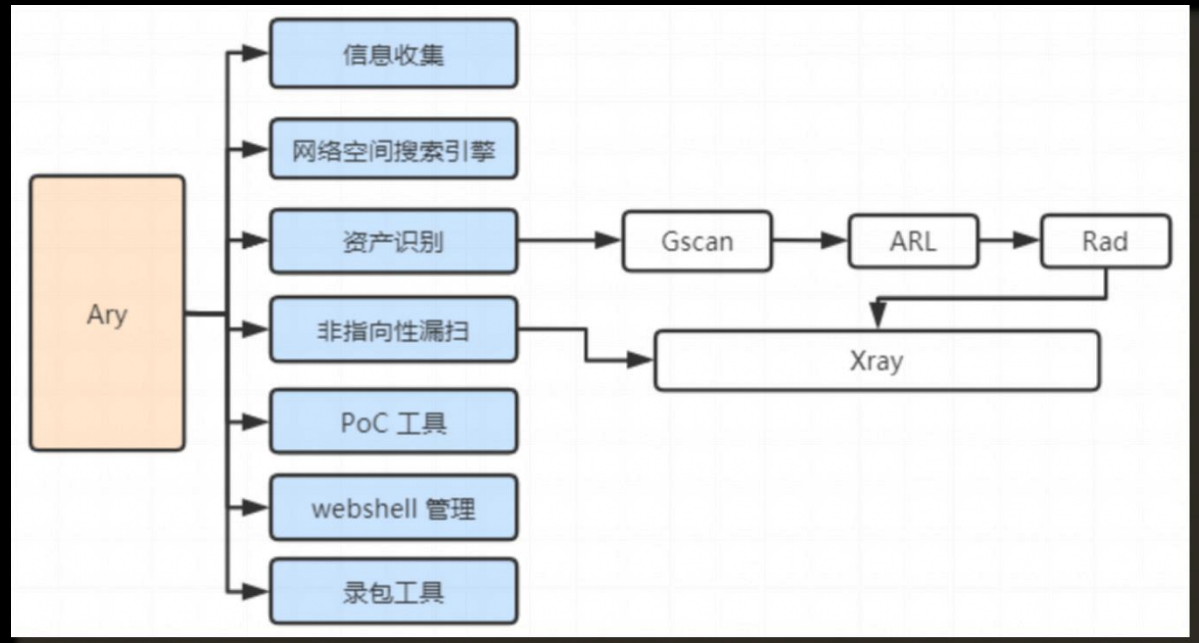
ARY

整合 → 归一化 → 逻辑化



ARY：自动挖洞思路 -> 执行流





ARY：自动挖洞思路 -> 执行流

Step 1 : 收集网站
./ary --netsearch --engine shodan --keyword reids –v

Step 2 :打 poc
./ary --pocscan --keyword redis --poc redis -v

ARY：自动挖洞思路 -> 执行流

Step 1：启动 xray 后台

```
./ary --vulnscan --engine xray --port 7778 --background -v
```

Step 2：启动爬虫

```
./ary --assertscan --engine crawlergo --url testphp.vulnweb.com
--passive --port 7778
```

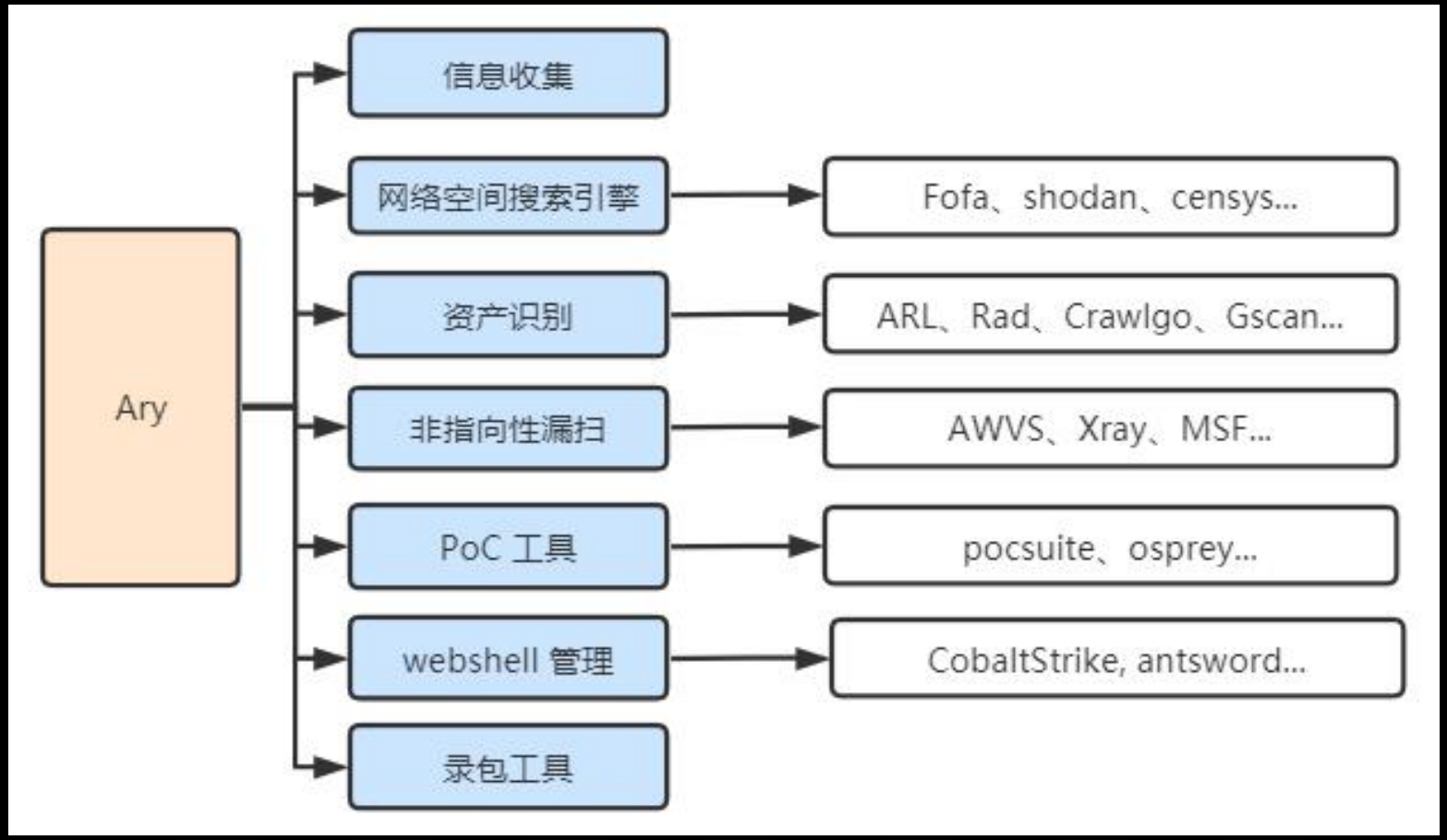
ARY：自动挖洞思路 -> 执行流

streams.yaml 321 Bytes

```yaml
redis:
  name: redis 未授权访问漏洞
  steps:
  - netsearch: True
    engine: shodan
    keyword: redis
    limit: 10
  - pocscan: True
    keyword: redis
    poc: redis.py
vulnweb:
  name: test testphp.vulnweb.com
  steps:
  - vulnscan: True
    engine: xray
    url: http://testphp.vulnweb.com/
    passive: True
```

./ary -v --stream --input streams.yaml --keyword "redis 未授权访问漏洞"

ARY


Ary
信息收集
网络空间搜索引擎
Fofa、shodan、censys...
资产识别
ARL、Rad、Crawlgo、Gscan...
非指向性漏扫
AWVS、Xray、MSF...
PoC 工具
pocsuite、osprey...
webshell 管理
CobaltStrike, antsword...
录包工具

扩展性+自定义

ARY

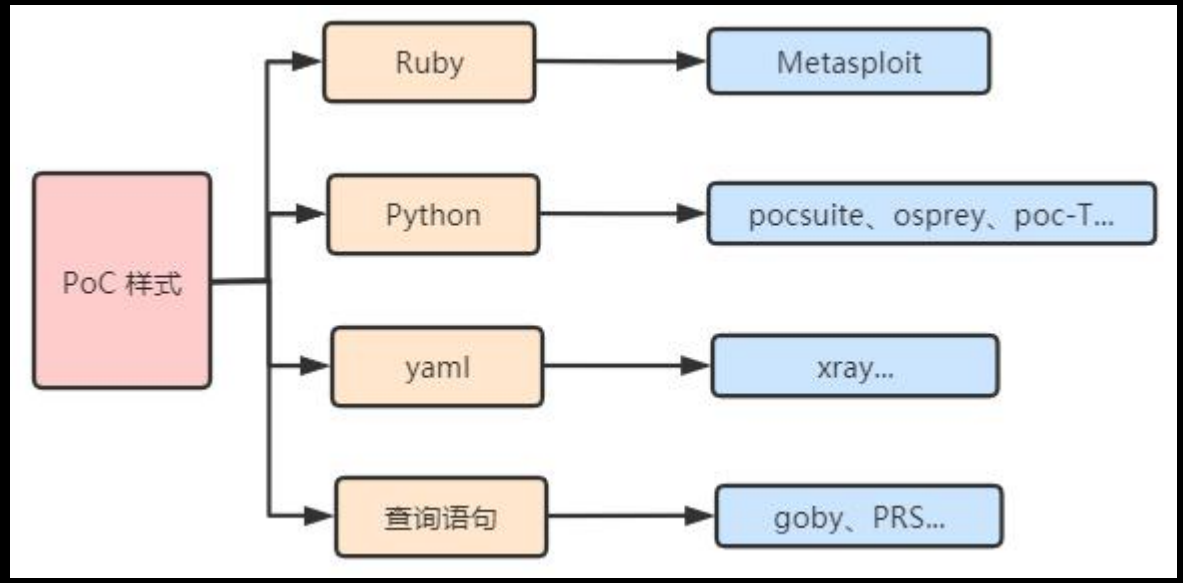
Ary 是一个集成类工具，主要用于调用各种安全工具，从而形成便捷的一键式渗透。

Github : https://github.com/TeraSecTeam/ary

```
version : 1.5.0
author : Ali0th / github.com/Martin2877 / martin2877@foxmail.com
descript:
This is a tool to use many other tools.

Statement:
This tool is only for learning and testing. It is strictly prohibited to use
```

PoC收集怎么办?


PoC 样式
Ruby
Metasploit
Python
pocsuite、osprey、poc-T...
yaml
xray...
查询语句
goby、PRS...

PoC收集怎么办?

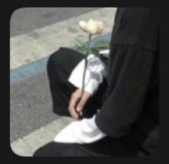
自动收集：https://github.com/TeraSecTeam/poc-collection

5127 lines (5127 sloc) | 1000 KB

Raw Blame

We can't make this file beautiful and searchable because it's too large.

```
file_updated_at,filename,fileurl
2020-07-12 20:05:24,SMB_CVE-2020-0796.py,https://github.30d90f2d65765fb6182e3a10e347ead13/win/SMB_CVE-2020-0796.py
2020-11-26 13:27:01,sprint_cloud_config_cve_2020_5410.py Diagram-tactics/blob/11ef5eb061f69205056dd993e5e95125ef02e410/env/spring_cloud_confi
2020-09-06 18:50:06,cve-2020-5902.py,https://github.com/77c79dce66d0402f85a1c1a4e8d78d4ac613/F5/cve-2020-5902.py
2020-08-01 16:44:18,cve_2020_9374.py,https://github.com/cb2b3ce8cd9147b237c5b7/%E5%B7%B2%E9%AA%8C%E8%AF%81poc/exp/routers/TP-Link/2/cve_2020
2020-10-06 00:34:11,CVE-2020-0796.py,https://github.com/8ad9c524b94f0e5f3f0f/windows/CVE-2020-0796/attack/CVE-2020-0796.py
2020-11-09 10:33:03,CVE-2020-1938.py,https://github.com/d9b9bfd2ad93f98c13f498214e1e3fee2/script/tomcat/CVE-2020-1938.py
2020-11-09 10:33:03,CVE-2020-0796.py,https://github.com/d9b9bfd2ad93f98c13f498214e1e3fee2/script/smb/CVE-2020-0796.py
2020-11-17 14:01:36,CVE-2020-1472.py,https://github.com/f196d0e697f3bb05f2c21d57c454c497d/exp/%E7%AC%AC%E4%BA%8C%E7%89%88/CVE-2020-1472.py
2020-11-17 14:01:36,CVE-2020-1472.py,https://github.com/f196d0e697f3bb05f2c21d57c454c497d/exp/%E7%AC%AC%E5%9B%9B%E7%89%88/CVE-2020-1472.py
2020-11-17 14:01:36,CVE-2020-1472.spec,https://github.cc9ff196d0e697f3bb05f2c21d57c454c497d/exp/%E7%AC%AC%E4%B8%89%E7%89%88/CVE-2020-1472.sp
2020-09-03 06:21:42,CVE-2020-17506-artica-rce.py,https:/ ncepts/blob/125cc4f5b41f4aa0c14c69c9328b714df188c5ef/CVE-2020-17506-artica-rce.py
2020-11-04 16:55:55,CVE-2020-2551.py,https://github.com/41398456fb5edd6bec15eccdd24318ebc0f/app/pocs/CVE-2020-2551.py
2020-11-09 10:33:03,CVE-2020-2551.py,https://github.com/f4d9b9bfd2ad93f98c13f498214e1e3fee2/script/weblogic/CVE-2020-2551.py
2020-11-04 16:55:55,CVE-2020-2883.py,https://github.com/41398456fb5edd6bec15eccdd24318ebc0f/app/pocs/CVE-2020-2883.py
2020-11-09 10:33:03,CVE-2020-5405.py,https://github.com/f4d9b9bfd2ad93f98c13f498214e1e3fee2/script/spring/CVE-2020-5405.py
2020-08-23 09:03:22,CVE-2020-8816.py,https://github.com/2d2b8a11cf520f76a193ed804945882dbe0f/CVE-2020-8816.py
```



木禾

北马里亚纳群岛

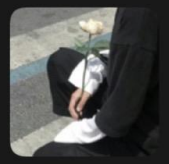
欢迎交流

Ali0th

Github : github.com/Martin2877

Email : martin2877@foxmail.com

TCC Team长期招聘，简历砸我



木禾

北马里亚纳群岛

回顾

两个技巧，两个方法，两个工具

Class

嫖

方法论：STP

集成化->归一化->逻辑化

ARY

poc-collection

Ali0th
Github : github.com/Martin2877
Email : martin2877@foxmail.com

网络安全创新大会
Cyber Security Innovation Summit

THANKS