# 实验1

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### 实验过程

### 实验环境

```
1
                                              Reverier-Xu @ Arch Linux
 2
                      .0+`
 3
                     `000/
                                             Hardware Information
 4
                    `+0000:
                                              MOD = AERO 15 Classic-XA
 5
                   `+000000:
                                              CPU = Intel i7-9750H (12) @ 4.500GHz
 6
                  -+000000+:
 7
                 `/:-:++0000+:
                                              GPU = NVIDIA GeForce RTX 2070 Mobile
 8
               `/<del>++++</del>/++++++:
                                              GPU = Intel CoffeeLake-H GT2 [UHD Graphics 630]
 9
               `/<del>*************</del>:
                                             RAM = 4980MiB / 15855MiB (31%)
             `/+++0000000000000/`
10
11
            ./ooosssso++osssssso+`
                                              Software Information
12
           .00SSSSSO-```\'/OSSSSSS+`
                                              KER = Linux 5.18.3-arch1-1
13
                           :ssssssso.
                                             DIS = Arch Linux x86_64
          -osssssso.
14
         :osssssss/
                            0SSSSO+++.
15
                            +ssssooo/-
        /ossssssss/
16
      `/ossssso+/:-
                            -:/+osssso+-
     `+sso+:-`
                                `.-/+oso:
17
   `++:.
                                     `-/+/
18
```

### 1,安装docker

```
□ NEW □ HORIZONTAL □ VERTICAL
                                                                                  Q FIND ⊚ WATCH ⊗ TERMINATE 🗏 KILL
[sudo] reverier 的密码:
 <mark>警告:</mark> docker-1:20.10.17-1 已经为最新 -- 重新安装
正在解析依赖关系...
正在查找软件包冲突...
软件包(1)
               旧版本
                            新版本
                                        净变化
community/docker 1:20.10.17-1 1:20.10.17-1 0.00 MiB
全部安装大小: 160.27 MiB
净更新大小:
               0.00 MiB
  进行安装吗? [Y/n]
(1/1) 正在检查密钥环里的密钥
(1/1) 正在检查软件包完整性
                                                                                                             100%
                                                                                                             100%
(1/1) 正在加载软件包文件
                                                                                                             100%
(1/1) 正在检查文件冲突
                                                                                                             100%
(1/1) 正在检查可用存储空间
                                                                                                             100%
:: 正在处理软件包的变化...
(1/1) 正在重新安装 docker
                                                                                                           -] 100%
  正在运行事务后钩子函数...
(1/5) Creating system user accounts...
(2/5) Reloading system manager configuration...
```

#### 验证:

```
Q FIND ⊚ WATCH ⊘ TERMINATE 🗏 KILL
[Rx.Sh] __~
Docker version 20.10.17, build 100c70180f
[Rx.Sh] ~~
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
                                                            NAMES
[Rx.Sh] ~~
REPOSITORY
                                                IMAGE ID
                                                              CREATED
                                                1600d2136bde
                               latest
cyberterm_cyberterm
                                                              4 days ago
                                                                            150MB
                                               5bfa4244661a
<none>
                                                              4 days ago
                                                                            150MB
                                                f336f6ce1707
                                                              4 days ago
                                                eb45a1d4f143
<none>
                                                              4 days ago
                                                afb1201a5811
<none>
                               <none>
                                                                            150MB
                               <none>
                                                                            159MB
<none>
                                                2e04b1ad5798
                                                              4 days ago
<none>
                                                2269620c260e
                                                              4 days ago
                                                                            212MB
                                                53c9818cccfa
                                                              4 days ago
                                                                            819MB
                                                              4 days ago
                                                7e89965bd3f1
                                                                            819MB
                                                f27600ec048b
                                                                            212MB
<none>
                               <none>
                                                8aa17a7af5c6
<none>
                               <none>
                                                              4 days ago
                                                                            212MB
<none>
                               <none>
                                                c06a9571f584
                                                              4 days ago
                                                                            819MB
<none>
                               <none>
                                                258fb34c6550
                                                              4 days ago
                                                                            212MB
```

## 2,部署webgoat镜像

从dockerhub拉取最新的webgoat镜像:

```
□ NEW ① HORIZONTAL □ VERTICAL
                                                                                                1.18.1-bullseye 65375c930b21 7 weeks ago
golang
                                                     74b0c105737a 7 weeks ago
f776cfb21b5e 8 months ago
                                                                                     376MB
postgres
debian
                                   bullseye
                                                                                     124MB
                                                      453965c6b903 9 months ago
redis
                                                                                   98.4MB
[Rx.Sh] _~~
\oint R(x)dx = docker pull webgoat/webgoat Using default tag: latest
latest: Pulling from webgoat/webgoat
e0b25ef51634: Pull complete
acc7fe67d300: Pull complete
8b1472f44fb5: Pull complete
bb5eece4b1de: Pull complete
232690ceec50: Pull complete
4384f4e3d2be: Pull complete
09a96c4b637b: Pull complete
72a54e9cafd8: Pull complete
a3ed95caeb02: Pull complete
Digest: sha256:3d675af9c7ebde68475e88ce842d3a26c25a38487e9c99bd7f5e1684f715ffcf
{\tt Status: Downloaded \ newer \ image \ for \ webgoat/webgoat:latest}
docker.io/webgoat/webgoat:latest
[Rx.Sh] ~~
```

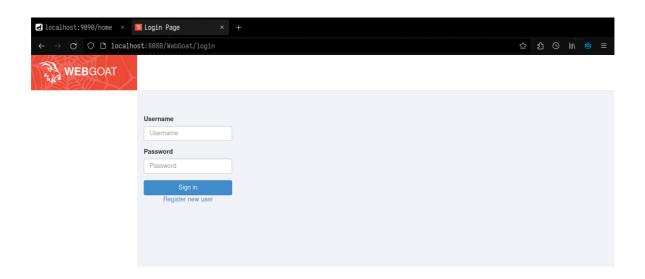
使用docker-compose托管并启动:

```
| Canal | Can
```

使用 docker-compose logs -f 查看输出:

```
Q FIND ⊚ WATCH ⊗ TERMINATE 🖃 KILL
    Using dialect: org.hibernate.dialect.HSQLDialect
                                                                                       | 2022-06-13 18:53:27.640 INFO 1 --- [
                                                                                                                                                                                                                                                                                                                        main] o.h.e.t.j.p.i.JtaPlatformInitiator
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : HHH000490:
     Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
                                                                                        2022-06-13 18:53:27.640 INFO 1 --- [
                                                                                                                                                                                                                                                                                                main] j.LocalContainerEntityManagerFactoryBean : Initialize
d JPA EntityManagerFactory for persistence unit 'default' webgoat-webgoat-1 | 2022-06-13 18:53:27.695 WARN 1 --- [
                                                                                                                                                                                                                                                                                                           main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa
  open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Explicitly configure sp
 ring.jpa.open-in-view to disable this warning
                                                                                         2022-06-13 18:53:27.749 INFO 1 --- [
                                                                                                                                                                                                                                                                                                                     main] o.s.s.web.DefaultSecurityFilterChain
 e any request with [org.springframework.security.web.context.request.async.WebAsyncManagerIntegrationFilter@7bda01da, org.spring
 framework. security. web. context. Security Context Persistence Filter @846647, org. spring framework. security. web. header. Header Writer Filter (1998) and the first principle of the princi
 er (2713e7d9a, \ org.spring framework.security.web. authentication.log out. Log outFilter (21e8bccfb, \ org.spring framework.security.web. authentication.log outFilter (21e8bccfb, \ org.spring framework.security.web.authentication.log outFilter (21e8bccfb, \ org.spring fra
 entication. Username Password Authentication Filter @ 75e4 fe3c, or g. spring framework. security. web. saved request. Request Cache Aware Filter @ 75e4 fe3c, or g. spring framework. Security. web. saved request Request Cache Aware Filter @ 75e4 fe3c, or g. spring framework. Security. web. saved request Request Cache Aware Filter @ 75e4 fe3c, or g. spring framework. Security. web. saved request Request Cache Aware Filter @ 75e4 fe3c, or g. spring framework. Security. Web. saved request Request Cache Aware Filter @ 75e4 fe3c, or g. spring framework. Security. Web. saved request Requ
 3c3ab672, org.springframework.security.web.servletapi. Security Context Holder Aware Request Filter @3e6acec2, org.springframework.security. Available of the context of 
 rity.web.authentication.AnonymousAuthenticationFilter@65ef9a0a, org.springframework.security.web.session.SessionManagementFilter
 0681d704e, org.springframework.security.web.access.ExceptionTranslationFilter070f98f7a, org.springframework.security.web.access.
 intercept.FilterSecurityInterceptor@404009df]
                                                                                       2022-06-13 18:53:27.844 INFO 1 --- [
                                                                                                                                                                                                                                                                                                                          main] io.undertow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : starting s
 erver: Undertow - 2.2.14.Final
                                                                                         2022-06-13 18:53:27.872 INFO 1 --- [
                                                                                                                                                                                                                                                                                                                          main] o.s.b.w.e.undertow.UndertowWebServer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : Undertow s
 tarted on port(s) 9090 (http)
                                                                                         2022-06-13 18:53:27.878 INFO 1 --- [
                                                                                                                                                                                                                                                                                                                         main] org.owasp.webgoat.server.StartWebGoat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : Started St
 artWebGoat in 0.763 seconds (JVM running for 8.834)
```

#### 环境已经启动成功,打开浏览器进行验证:



# 完成情况

