

工作整理

TODO

- https://blog.csdn.net/weixin_40242845/article/details/128400291
- 多个 ssh.Channel 时的 status 问题
- <https://blog.csdn.net/hui1429/article/details/80144863>
- 默认的上传下载速度
- BatchModifyAutoPostRootList
- UserInfo
- 自动创建 policy-data 目录
- 创建 user 表
- SyncStatus, 更新 status, 管理 ssh.Channel
- RootAccount(nil)
- LoadFromFile 去掉 os.MkdirAll
- 更改用户时的 ssh.Channel 处理, r.CloseSftpReqServers
- associateStatus
- ui.probe = &pb
- 日志大小处理
- https://www.gnu.org/software/bash/manual/html_node/Shell-Parameter-Expansion.html

```

-func (r *probeRepo) PasswordReset(username, oldpass, pass string) error {
-    if err := r.VerifyPassword(username, oldpass); err != nil {
-        return err
-    }
-
-    r.data.Probes[r.data.ProbeIDIndex[username]].Password = pass
-    return nil
-}
-
-func (r *probeRepo) VerifyCredential(username string, pubkey ssh.PublicKey) error {
-    // TODO: impl
-    return nil
-}
-
-func (r *probeRepo) Configs() *conf.Data {
-    return r.configs
-}
-
-func (r *probeRepo) WhiteList() []string {
-    wl := []string{}
-
-    for _, p := range r.data.Probes {
-        if p == nil {
-            continue
-        }
-        wl = append(wl, p.ProbeEgressIP)
-    }
-    return wl
-}

```

EngineMgr

* 引擎名称:	<input type="text" value="172.18.6.140"/>
* 厂商:	<input type="text" value="WebRAY"/>
* 设备类型:	<input type="text" value="RayGate"/>
* 部署模式:	<input type="text" value="单机"/>
* 引擎IP:	<input type="text" value="172.18.6.140"/>
* 协议:	<input type="text" value="https"/>
* 端口:	<input type="text" value="8443"/>
* 所属引擎组:	<input type="text" value="api引擎组"/>
* 用户名:	<input type="text" value="apiuser"/>
* 密码:	<input type="password" value="admin123!"/>

默认 443 端口

/api/v1

http://127.0.0.1:89

/usr/lib/python3.7_venv_raygate/bin/uwsgi \
--ini /rayos/app/webapp/raygate/uwsgi.ini

后端，插入数据

引擎的日志在 tail -f /var/log/webraydb/workermmsg.log;

2025-04-14 10:33:22,703 INFO: [MainProcess] worker_manage 状态正常 ... [in
worker.py:119]

2025-04-14 11:03:24,468 INFO: [MainProcess] worker_manage 状态正常 ... [in
worker.py:119]

^/(finger|async|logout|cfg|asset|system|report|logsystem|engine|label|base|active)/

http://127.0.0.1:89

/usr/bin/python2 -

/rayos/app/webapp/paladin/run.py

^/vm/(vmreport/|download/|css/|js/|img/|signin)

http://127.0.0.1:16530

/rayos/app/worker_manage

python3 /RayOS/app/worker_manage/worker.py

上报引擎心跳

引擎

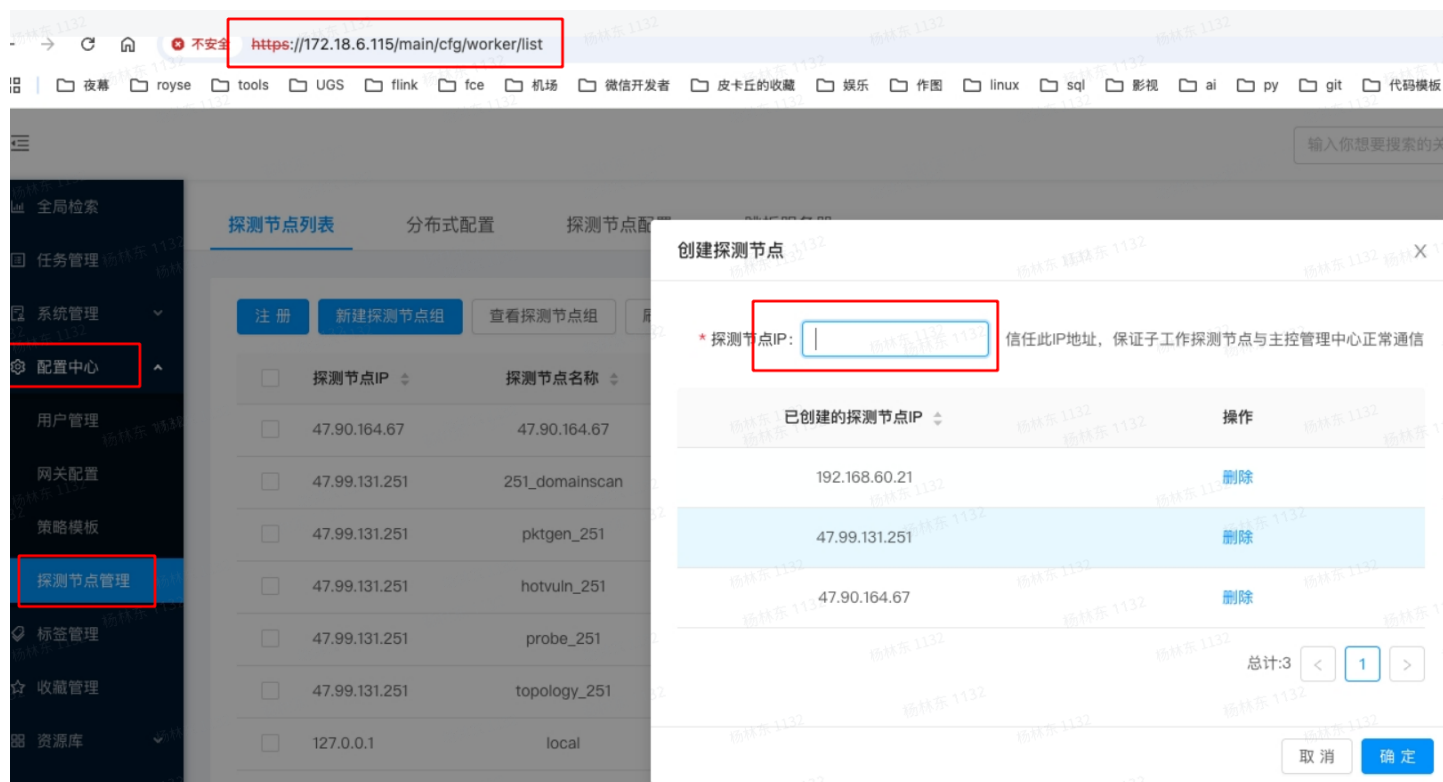
分布式引擎: jobexe

api引擎，能登录

python3 /RayOS/app/worker_manage/worker.py

IP段加白, 添加引擎

superman/Test123!



python

- `from urllib.parse import quote`

C++

<https://blog.csdn.net/youlinhuanyan/article/details/142738063>

内存布局: <https://www.cnblogs.com/zi1991/p/7040687.html>

coredump

```
1 # go race condition check
2
3 # ulimit -c;
4 ulimit -c unlimited;
5
6 # %e是可执行文件的名称,%s是信号名,%u是用户ID,%g是组ID,%p是进程ID,%t是时间戳
7
8 cp /etc/sysctl.conf{,.bak};
9 echo 'kernel.core_pattern=/var/log/rlog/cacheproxy/core-%e-%s-%u-%g-%p-%t' \
10     >> /etc/sysctl.conf;
11 sysctl -p;
```

Apt

- https://wiki.debian.org/zh_CN/Apt

- <https://wiki.debian.org/AptCLI>

Suricata

- Sourceinsight rust

<https://linuxcpp.0voice.com/?id=112226>

- <https://zhuanlan.zhihu.com/p/632044134>

Crontab

- <https://segmentfault.com/a/1190000023029219>

Docker

```
1 {
2     "insecure-registries": ["172.21.1.73:8080"],
3     "registry-mirrors": ["http://172.21.1.73:8080"]
4 }
```

```
1 # docker mirrors
2 # 目前国内可用Docker镜像源汇总
3 # https://www.coderjia.cn/archives/dba3f94c-a021-468a-8ac6-e840f85867ea
4
5 docker build \
6     -t registry.ibdp.webray.com.cn:51808/fap/autopost:latest \
7     -f ./dockerfiles/autopost.Dockerfile .
```

Git

```
1 https://kkgithub.com/
2 https://hub.yzuo.cf/
3
4 # 提交时转换为LF, 检出时转换为CRLF
5 git config --global core.autocrlf true
6
7 # 提交和检出时都不转换
8 git config --global core.autocrlf false
9
```

```
10 # 提交时转换为LF, 检出时不转换
11 git config --global core.autocrlf input
```

Cacheproxy

管理环境

虚拟平台:

<https://172.21.151.12:8006/#v1:0:=qemu%2F104:4:5:::>

root Webray@0808

<https://172.21.15.37/user/login>

admin: 2025-01-09 15:02:36

页面: admin ABa2l@23Fulv1

代码块

```
1 https://172.21.151.12:8006/#v1:0:=qemu%2F104:4:5:::
2
3 root/Webray@0808
4
5 172.21.150.109
6 admin/Webray@12345678
7
```

Env 配置

代码块

```
1 CC=x86_64-linux-musl-gcc
2 CGO_ENABLED=1
3 CGO_LDFLAGS=-O2 -g -static
4 GOROOT=C:/Program Files/go
5
```

代码块

```
1 func(*Server)
2
3 type Handler func(context.Context, net.Conn) error
4 type SFTPMiddleware func(Handler) Handler
5
6 func Chain(m ...SFTPMiddleware) SFTPMiddleware {
```

```

7     return func(next Handler) Handler {
8         for i := len(m) - 1; i >= 0; i-- {
9             next = m[i](next)
10        }
11        return next
12    }
13 }
14
15 s.middleware = []{
16     Recovery(),
17     SSHAuth(ss.SSHConfigs()),
18     WhiteList(ss.GetProbeEgressIP),
19     Status(ss.GetProbeStatus),
20     Logging(),
21     ConnectionLimit(ss.Limit)
22 }
23 next = ServeSFTP(ctx context.Context, conn net.Conn) error {
24     s.probe.AppendSftpReqServer(p.Username, channel, connID)
25     defer s.probe.RemoveSftpReqServer(p.Username, connID)
26     defer server.Close()
27     server.Serve()
28 }
29 go Recovery(
30     SSHAuth(
31         WhiteList(
32             Status(
33                 go ps.Active()
34                 defer func(){
35                     if cnt==0 {
36                         go. ps.Logoff()
37                     }
38                 })
39             Logging(
40                 ConnectionLimit(next)
41             )
42         )
43     )
44 )
45 )
46
47 Logging: info user "ridward" logged out
48 go.ps.Logoff

```

3 http://bbs.itying.com/topic/676cf34b5b798701ddf78072

4
5 - 服务器管理

6 https://172.21.150.16/ui/#/host/vms/89

7 root/Esxi#0926

8 - 150.39 的账密 root/Superman@12345

9
10 - proxmox 账户

11 root/Webray@0808

12
13 - 删除

14 点中-more-remove

15
16 探针: https://172.21.15.37/user/login

17 admin/ABa2l@23Fulv1

18
19 系统管理/集中配置管理

20
21
22 - img 下载

23 - 外部: http://172.18.9.4:8001/products/fap-cacheproxy/

24 - 内部: http://172.21.1.25:8000/products/fap-cacheproxy/

25
26
27 上传 data(ibpd-uat-01), upload,

28
29 创建系统,

30 两个盘, 128G, 256G

31 2 sockets, 4 cores = 8 cres

32 16384 Memory MiB(16G)

33
34 - 登录账号: root/webay++

35 - 安装密码: WebRW2r\$

36 输入 y 确认

37
38 等待好长时间....

39
40 y; xfs; rdata/cacheproxy; y; reboot;

41
42 等好久...

43 admin密码默认[aDmin@3.21](#), 首次登录需修改密码, 修改后使用新密码登录 Forget@12345678

44
45 配置网络

46 vlan -A -v MngtVlan -f 172.21.150.107 -m 255.255.255.0;

47 vlan -S;

48 route -A -i 0.0.0.0 -m 0.0.0.0 -g 172.21.150.1;

49 route -S;


```
50
51 settime
52 help
53 upsshd start
54
55
56 [autopost]
57
58 docker build \
59 -t registry.ibdp.webray.com.cn:51808/fap/autopost:latest \
60 -f ./dockerfiles/autopost.Dockerfile .;
61
62 docker save registry.ibdp.webray.com.cn:51808/fap/autopost -o 'autopost.tar';
63
64 [autopost]
65 - sftp_policy_path: /policy-data
66   pull 模式要忽略的远程 server 的策略存储目录
67   push 不用此配置
68   root 账户的家目录 HomeDir (所以单号pull模式能同步此目录下的所有文件)
69 - file_path: /home/
70   定期清理老文件的目录, NewMonitorRepo 中的的 DataDir:
71   pull 模式下文件同步到的目录
72   push 模式不用此配置
73 - policy_file_path: /home/policy-data
74   pull 模式不用此配置
75   push 的时候, 本地策略所在文件夹, 同时也在检测文件
76
77 [cacheproxy]
78 RootAccount() 一致维护 root 用户
79 - data_dir: /home/cacheproxy/data
80   探针文件夹创建的目录
81   策略解压到的目录
82   定期清理的目录 (NewMonitorRepo)
83   root 用户的家目录
84 - app_dir: /home/cacheproxy
85   创建一个 policy-data-backup 目录备份
86   cert 所在目录
87   data.db 所在目录
88   处理请求的时候看了这个目录的信息??? HandleConn: IsDiskWork()
89 - policy_data_dir: /home/cacheproxy/data/policy-data
90   push 过来的策略的存储路径
91   定期检测并需要解压 .tgz
92
93 p.HomeDir 是不同 sftpServer 的目录
94
95 SystemProbeRecover
```

```
1  scp -O -l 1024 /d/... root@172.21.150.28:/cacheproxy/
2
3
4  # 172.21.150.27
5  export GOPROXY="http://172.21.3.11:3000"
6  账密: admin/Admin123, 端口是 8000
7
8
9  - cmd/cacheproxy/main.go
10 //go:embed web/*
11
12 - go.mod
13 toolchain go1.21.4
14
15 - configs/config.json
16 data_dir
17 app_dir
18 policy_data_dir
19
20
21 https://github.com/protocolbuffers/protobuf/releases
22 # exec: "protoc": executable file not found in %PATH%
23 https://github.com/protocolbuffers/protobuf/releases/download/v29.2/protoc-
24 29.2-win64.zip;
25
26 VERSION=1.0;
27 # https://www.jianshu.com/p/10ae8a5a7704
28 # go get github.com/go-kratos/kratos/cmd/kratos/v2@latest;
29 go install github.com/go-kratos/kratos/cmd/kratos/v2@latest;
30
31 kratos proto client ./internal/conf/conf.proto;
32 kratos proto client ./api/cacheproxy/v1/cacheproxy.proto;
33
34
35
36 go build -ldflags "-X main.Version=$(VERSION)";
37 chmod a+x /usr/local/go/bin/kratos;
38 go mod tidy;
39 cd cmd/cacheproxy;
40 go build;
41 ./cacheproxy -conf ../../configs/config.json;
42 dlv --listen=:2345 --headless=true --api-version=2 --accept-multiclient exec
    ./cacheproxy
```

```
43
44 缓存转发的 root_passwd 要配置为 root
45 # ../configs/autopost.yaml 要配置 sftp_address 和 3 个目录
46 ./autopost -conf ../configs/autopost.yaml -mode push
47 上传文件到单导的 /cacheproxy/home/policy-data
48 单导日志类似:
49 caller=biz/autopost_push.go:203 ... \
50     policy-data/20241221181530_policy.tgz.part successfully
51
52 缓存转发的日志类似:
53     caller=biz/monitor.go .... \
54     job: /home/cacheproxy/data/policy-data/20241221181530_policy.tgz
55
56 文件会被解压到 /home/cacheproxy/data 下
57     - 0XSDJI902
58     - 0XSDJI905
59     - 0XSDJI908
60     - E04C81F400
61     - SXXAtest11
62 /home/cacheproxy/data/policy-data
63 /home/cacheproxy/policy-data(??? 是什么)
```

Go

- Protobuf: <https://www.cnblogs.com/zhanchenjia/p/17454978.html>

代码块

```
1 runtime.gcdata: missing Go type information for global symbol .dynsym: size 72
2 https://www.cnblogs.com/binHome/p/13020178.html
3
4 https://www.jianshu.com/p/a73cef45b65c
5
6 wire:
7 https://www.cnblogs.com/jiujuan/p/16136633.html
8
9 在 service/service.go
10 type AppRepo interface {
11     ...
12 }
13
14 在 data/data.go
15 type appRepo struct {
16     *mq
17     *db
18     *dp
19 }
```

```

20
21 func NewAppRepo() service.AppRepo {
22     appRepo := &appRepo{}
23     return appRepo
24 }
25
26 //
27 google.golang.org/protobuf/types/known/anypb
28
29 marshal := v1.Flow { Enable: true, Subset: "127.0.0.1" }
30 any, err := anypb.New(&marshal);
31 [type.googleapis.com/engmgr.v1.Flow]:{enable:true, subset:"127.0.0.1"}
32
33 grpcurl -plaintext -H "x-user-id: 1" 172.21.150.109:9000 list;
34 grpcurl -plaintext -H "x-user-id:1" -d '{} ' 172.21.150.109
engmgr.v1.App.CreateGrp;

```

代码块

```

1 # 文档
2 https://www.topgoer.com/go%E5%9F%BA%E7%A1%80/%E7%BB%93%E6%9E%84%E4%BD%93.html
3
4 # 自定义 json
5 https://juejin.cn/post/6844904184651874312

```

```

1 # select
2 https://www.cnblogs.com/qcy-blog/p/18520091
3 # docker copy
4 https://developer.baidu.com/article/details/3214252
5 # break
6 https://blog.csdn.net/u011461385/article/details/106017483
7 # chan
8 https://blog.csdn.net/chenchongg/article/details/86589395
9 # nil, close chan
10 https://dave.cheney.net/2014/03/19/channel-axioms
11 # strace
12 // 只显示 renameat 的调用情况
13 strace -f -e trace=renameat go run ./script/download-go go1.22.3
14
15 # switch语句也可以与false字面值一起使用，提供了一种确定哪些条件未满足的方法
16 https://www.cnblogs.com/cheyunhua/p/17945018

```

```
1 for pos, char := range "日本\x80語" { // \x80 is an illegal UTF-8 encoding
2     fmt.Printf("character %#U starts at byte position %d\n", char, pos)
3 }
4
5
```

```
1 the module github.com/google/go-cmp contains a package in the directory cmp/.
2 That package's import path is github.com/google/go-cmp/cmp.
3 Packages in the standard library do not have a module path prefix
4
5 go install example/user/hello;
6
7
8 The install directory is controlled by the GOPATH and GOBIN environment
  variables.
9 If GOBIN is set, binaries are installed to that directory.
10 If GOPATH is set, binaries are installed to the bin subdirectory of
11 the first directory in the GOPATH list.
12 Otherwise, binaries are installed to the bin subdirectory of
13 the default GOPATH ($HOME/go or %USERPROFILE%\go)
14
15 go env -u GOBIN;
16
17 $(dirname $(go list -f '{{.Target}}' .));
18
19 go help importpath;
20
21 GOCACHE: $HOME/.cache/go-build;
22
23 import "example/user/hello/morestrings";
24
25 go mod tidy;
26
27 $HOME/.mygo/pkg/mod/
28
29 go clean -modcache;
```

```
1 go list -f '{{.Target}}';
```

```
2 go env -w GOBIN=/path/to/your/bin;
3
4 Named return values;
5 A var statement can be at package or function level.
6 := 只可以在函数内使用.
7 rune is int32;
8 uintptr;
9
10 %T, %v
11 Zero values;
12 different type requires an explicit conversion;
13 Gos switch cases need not be constants, and the values involved need not be
    integers;
14 Unlike C, Go has no pointer arithmetic.;
15
16 type Vertex struct {
17     X int
18     Y int
19 }
20
21 (*p).X -> p.X;
22
23 var (
24     v1 = Vertex{1, 2} // has type Vertex
25     v2 = Vertex{X: 1} // Y:0 is implicit
26     v3 = Vertex{}     // X:0 and Y:0
27     p = &Vertex{1, 2} // has type *Vertex
28 )
29
30 Slices are like references to arrays;
31 cap();
32 a := make([]int, 5) // len(a)=5;
33 b := make([]int, 0, 5) // len(b)=0, cap(b)=5;
34 strings.Join;
35 The range form of the for loop iterates over a slice or map.
36 for i := range pow;
37 delete(m, key)
38 elem, ok = m[key]
39
40 The make function returns a map of the given type, initialized and ready for
    use;
41
42
43 func fibonacci() func() int {
44     i, j := 0, 1
45     return func() int {
46         i, j = j, i+j
```

```

47         return i
48     }
49 }
50
51 Methods:
52 The receiver appears in its own argument list
53 between the func keyword and the method name.
54 func (v Vertex) Abs() float64 {
55     return math.Sqrt(v.X*v.X + v.Y*v.Y)
56 }
57
58
59 You can only declare a method with a receiver
60 whose type is defined in the same package as the method.
61 Pointer receivers;
62
63 Go interprets the statement v.Scale(5) as (&v).Scale(5);
64 p.Abs() is interpreted as (*p).Abs();
65
66 type Abser interface {
67     Abs() float64
68 }
69
70 func (t *T) M() {
71     if t == nil {
72         fmt.Println("<nil>")
73         return
74     }
75     fmt.Println(t.S)
76 }
77
78 # Type assertions
79 t := i.(T);
80 t, ok := i.(T);
81
82 switch v := i.(type);
83
84 type Stringer interface {
85     String() string
86 }
87
88 func (p Person) String() string {
89     return fmt.Sprintf("%v (%v years)", p.Name, p.Age)
90 }
91
92 type error interface {
93     Error() string

```

```

94 }
95
96 %q;
97
98 func Index[T comparable](s []T, x T) int
99
100 type List[T any] struct {
101     next *List[T]
102     val T
103 }
104

```

The evaluation of `f`, `x`, `y`, and `z` happens in the current goroutine and the execution of `f` happens in the new goroutine.

```

109 ch <- v    // Send v to channel ch.
110 v := <-ch  // Receive from ch, and
111           // assign value to v.
112
113

```

Like maps and slices, channels must be created before use:

```

115 ch := make(chan int);
116
117 ch := make(chan int, 100);
118
119 v, ok := <-ch;
120

```

Only the sender should close a channel, never the receiver.
Sending on a closed channel will cause a panic.

```

125 select {
126 case c <- x:
127     x, y = y, x+y
128 case <-quit:
129     fmt.Println("quit")
130     return
131 }
132

```

```

133 mu sync.Mutex;
134 c.mu.Lock();
135 c.mu.Unlock();

```

ssh

/rayos/app/config-ssh/scli/upsshd start

pg_dump

```
1 PGPASSWORD='admin1234' pg_dump -d fusion -U postgres --no-comments \  
2 --column-inserts \  
3 -t 'rule_ele|model';  
4  
5  
6 -O --no-owner  
7 -s --schema-only
```

pg

```
1 /install/modules/ray-postgresql/stop.sh;  
2 psql postgresql://user:pass@host:port/dbname  
3 PGPASSWORD='admin1234' psql -U postgres -p 5432 fusion;  
4  
5 echo "host      ti_graph      {user}      {ip}      md5" >> $PGDATA/pg_hba.conf  
6  
7  
8  
9 PGPASSWORD='Mjolnir' pg_dump -d test -U postgres -h 127.0.0.1 --no-comments \  
10 --column-inserts \  
11 --schema-only \  
12 -t 'group' \  
13 -t 'device_group' \  
14 -t 'device' \  
15 -t 'engine' \  
16 > enginemgr.sql;  
17  
18  
19 -s --schema-only, 加上只导表结构
```

iptables

```
1 /rayos/cfg/iptables_port.conf      6379 5432  
2 /rayos/utils/netac -A
```

ipaddr

```
1 sudo systemctl restart systemd-resolved.service;
```

```
1 flock -xn /var/run/custom_worker.lck -c \  
2     "nohup python3 -m flask rq worker &>> /var/log/webraydb/custom_worker.log  
   &"
```

```
1 SELECT col.table_name, col.column_name, col.data_type, des.description  
2 FROM information_schema.columns AS col  
3 JOIN pg_statio_all_tables AS st  
4     ON col.table_name=st.relname  
5 LEFT JOIN pg_description AS des  
6     ON (st.relid=des.objoid AND col.ordinal_position=des.objsubid)  
7 WHERE col.table_name = 'document';
```

limits.conf/sysctl.conf

```
1 https://blog.csdn.net/qisianla/article/details/52383426  
2 https://www.cnblogs.com/netsa/p/15385635.html
```

Pycharm

```
1 remote debug, /etc/ssh/sshd_config 中 AllowTcpForwarding yes
```

Iptables

```
1 [Unit]  
2 AssertPathExists=/etc/sysconfig/iptables  
3 iptables -I INPUT 2 -p tcp -m multiport --dport 80,5000,10290 -j ACCEPT;
```

```

1 network.host: 0.0.0.0
2 discovery.seed_hosts: ["127.0.0.1"]
3
4 network.bind_host
5 network.public_host
6 network.host
7 discovery.seed_hosts: 集群主机列表
8 discovery.seed_providers: 基于配置文件配置集群主机列表
9 cluster.initial_master_nodes: 启动时初始化的参与选主的node, 生产环境必填
10
11 curl -K https://elastic:elastic@172.21.15.234/_settings?pretty
12

```

alembic 使用

```

1 cd fusion_app/module/resources/webapp/rayfusion;
2 mkdir misc;
3 cd misc;
4 alembic init db; # create alembic.ini and dir db/
5

```

```

1 apt-get download git;
2 ssh-copy-id -i ~/.ssh/id_*.pub root@172.21.15.234;
3 useradd -m -s /bin/bash lindyang;
4 passwd lindyang;
5
6 cp /etc/yum.conf{, .bak};
7 #echo 'proxy=http://172.21.3.11:3128' >> /etc/yum.conf;
8 echo "$USER $HOSTNAME= NOPASSWD: ALL" | sudo tee /etc/sudoers.d/$USER;
9
10
11 cat /etc/os-release
12 cat /etc/yum.repos.d/openEuler.repo

```

sudo apt install zlib1g zlib1g-dev;

sudo apt-get install -y git make build-essential libssl-dev zlib1g-dev libbz2-dev libreadline-dev libsqlite3-dev wget curl llvm libncurses5-dev libncursesw5-dev xz-utils tk-dev libffi-dev;

```
sudo apt install liblzma-dev;
```

```
v=3.9.19; wget https://repo.huaweicloud.com/python/$v/Python-$v.tar.xz -P /opt/.pyenv/cache/  
--no-check-certificate; pyenv install $v;
```

Virtualbox:

Visual C++ Redistributable for Visual Studio 2019 (version 16.11)

1. `sudo groupadd docker`
2. `sudo usermod -aG docker $USER`
3. 【重新登录shell】 或者 【切换为root再切换成当前用户】

Docker 镜像

<https://cr.console.aliyun.com/cn-hangzhou/instances/mirrors>

```
1 ARG DEBIAN_FRONTEND=noninteractive  
2 ENV TZ=Asia/Shanghai  
3 RUN DEBIAN_FRONTEND=noninteractive TZ=Etc/UTC apt-get -y install tzdata;  
4  
5 https://github.com/Tensho/docker-rbenv;
```

阿里云镜像查找

<https://developer.aliyun.com/mirror/>

```
1 # 将可用源进行配置  
2 sudo tee /etc/docker/daemon.json <<EOF  
3 {  
4     "registry-mirrors": [  
5         "https://dockerproxy.cn",  
6         "https://docker.rainbond.cc",  
7         "https://docker.udayun.com",  
8         "https://docker.211678.top"  
9     ]  
10 }  
11 EOF  
12  
13 # 重载，重启Docker服务  
14 sudo systemctl daemon-reload
```

```
15 sudo systemctl restart docker
```

Minikube

<https://blog.csdn.net/Sindweller5530/article/details/116499761>

<https://github.com/luksa/kubernetes-in-action/tree/master/Chapter04>

- autocmd FileType yaml setlocal tabstop=2 shiftwidth=2 expandtab autoindent

```
1 minikube service ingress-nginx-controller -n ingress-nginx;
```

```
1 minikube start \  
2   --vm-driver none \  
3   --driver=docker \  
4   --image-mirror-country='cn' \  
5   --image-repository=registry.cn-hangzhou.aliyuncs.com/google_containers;  
6  
7 minikube status;  
8 minikube dashboard;  
9 minikube ssh;  
10 eval $(minikube docker-env);  
11  
12 kubectl cluster-info;  
13 kubectl get nodes;  
14 kubectl describe node minikube  
15  
16 minikube image load kuberneta;  
17 minikube ssh;  
18 docker tag kuberneta luksa/kuberneta:1.0;  
19 exit;  
20 kubectl create deployment kuberneta --image=luksa/kuberneta:1.0;  
21 kubectl get deployments;  
22  
23 kubectl get pods;  
24 kubectl describe pod;  
25  
26 kubectl expose deployment kuberneta --type=LoadBalancer --port 8080;  
27 kubectl get svc;  
28  
29 kubectl get nodes/pods/deployments/pods;  
30  
31 kubectl api-resources;  
32
```

```
33 # If you use Minikube to create the cluster,
34 # no load balancer is created
35
36 minikube service kubia --url;
37 minikube ip;
38 kubectl scale deployment kubia --replicas=3;
39
40 kubectl get deploy;
41
42 kubectl get pods -o wide;
43
44 kubectl get nodes minikube -o yaml;
45
46 kubectl proxy;
47 http://127.0.0.1:8001/api/v1/nodes/minikube;
48
49 kubectl explain nodes;
50 kubectl explain node.spec; # --api-version
51 kubectl explain pods --recursive;
52
53 kubectl get ev -o wide;
54 kubectl get ev --field-selector type=Warning;
55
56 kubectl explain events;
57
58 kubectl run kubia --image=luksa/kubia:1.0 --dry-run=client -o yaml >
  mypod.yaml;
59
60 kubectl apply -f kubia.yaml;
61
62 k run kubia --image=luksa/kubia:1.0 --dry-run=client -o yaml;
63
64 k describe pod kubia; minikube ssh; curl 172.17.0.X:8080;
65
66 Some of the pod's fields aren't mutable, so the update may fail,
67 but you can always delete the pod and then create it again
68
69 kubectl get pod kubia -o wide;
70
71 kubectl run \
72 --image=ubuntu:latest -it \
73 --restart=Never \
74 --rm client-pod curl 172.17.0.7:8080;
75
76 kubectl port-forward kubia 8080÷8080;
77 kubectl port-forward --help;
78 kubectl logs --timestamps=true -f kubia;
```

```
79      --since=2m
80      --since-time=2020-02-01T09:50:00Z
81      --tail=10
82      -p (--previous)
83
84      kubectl exec kubia -- ps aux;
85
86      kubectl attach;
87
88      kubectl port-forward kubia-ssl 8080 8443 9901;
89      curl https://example.com:8443 --resolve example.com:8443:127.0.0.1 -k;
90
91      kubectl delete po kubia-ssl --grace-period 10;
92          spec.terminationGracePeriodSeconds
93          metadata.deletionGracePeriodSeconds
94
95
96      kubectl logs kubia-ssl -c kubia;
97      kubectl logs kubia-ssl --all-containers;
98
99      kubectl exec -it kubia-ssl -c envoy -- bash;
100
101      k delete pod kubia --wait=false;
102
103      kubectl delete -f kubia-ssl.yaml;
104      kubectl delete -f kubia.yaml,kubia-ssl.yaml;
105      kubectl apply -f Chapter05/;
106      kubectl delete -f Chapter05/;
107          --recursive
108
109      kubectl delete po --all;
110
111      kubectl delete all --all;
112
113      kubectl delete events,all --all;
114
115      kubectl exec kubia-liveness -c envoy -- tail -f /var/log/envoy.admin.log;
116
117      kubectl logs kubia-liveness -c envoy -p;
```

```
1  # NodePort
2  kubectl cluster-info;
3  curl http://192.168.49.2:30123;
```

```
4
5 kubectl get nodes -o jsonpath='{.items[*].status.addresses}';
6 kubectl get nodes -o \
7 jsonpath='{.items[*].status.addresses[?(@.type=="InternalIP")].address}';
8
9 # http://kubernetes.io/docs/user-guide/jsonpath
10
11 minikube service kubia-nodeport;
12 # minikube service <service-name> [-n <namespace>]
13
14 externalTrafficPolicy: Local;
15
16 minikube addons list;
17 minikube addons enable ingress;
18 apiVersion: networking.k8s.io/v1;
```

```
1 apiVersion: networking.k8s.io/v1
2 kind: Ingress
3 metadata:
4   name: kubia
5 spec:
6   rules:
7     - host: kubia.example.com
8     http:
9       paths:
10       - path: /
11         pathType: Prefix
12         backend:
13           service:
14             name: kubia-nodeport
15             port:
16               number: 80
```

```
1 docker build -t kubia .;
2 删除 DaemonSet 也会删除 pod;
3
4 # job 资源
5 kubectl get jobs;
6
```



```

7 # completions: 5
8 # parallelism: 2
9
10 # 有问题
11 kubectl scale job multi-completion-batch-job --replicas 3;
12
13 activeDeadlineSeconds
14 spec.backoffLimit=6 (default)
15
16 CronJob
17 分钟 小时 每月中的第几天 月 星期几(0是星期天)
18 startingDeadlineSeconds
19
20
21 创建 service 后, 需要
22 minikube ssh; # 登录
23 curl `kubectl get svc | awk '{print $3}'` # CLUSTER-IP
24
25 kubectl exec kubia-manual -- curl -s http://10.99.94.217; # 没有 -s, -- 是非必须得
26
27 sessionAffinity: ClientIP; # 不支持http cookie
28 kubectl exec kubia-manual -- env;
29 dnsPolicy;
30
31 backend-database.default.svc.cluster.local;
32
33 kubectl exec -it kubia-manual -- bash;
34 curl -s http://kubia.default.svc.cluster.local;
35 curl http://kubia;
36
37 cat /etc/resolv.conf;
38 ping kubia; # 无法ping通, 因为是虚拟IP, 只有与port结合才有意义
39 kubectl describe svc kubia | grep -i endpoint;
40 kubectl get endpoints kubia;
41 curl http://external-service/echo;
42
43 # kubia ExternalName

```

```

1 kubectl logs mypod --previous;
2 kubectl edit rc kubia;
3
4 export KUBE_EDITOR="/usr/bin/vim";

```

```

5 export EDITOR="/usr/bin/vim";
6 kubectl scale rc kubia --replicas=4;
7 kubectl delete rc kubia --cascade=false;
8
9 ReplicaSet 匹配缺少某个标签的 pod，或包含某个标签名的 pod，不管其值。
10
11 kubectl api-versions;
12 replicaset.apps/kubia created;
13 kubectl get rs;
14 kubectl delete rs kubia;
15
16 # 使用 DaemonSet 在每个节点上运行一个 pod
17 # 使用 DaemonSet 只在特定的节点运行 pod
18 # 节点可以被设置为不可调度，但DaemonSet可以绕过它

```

```

1 apiVersion: apps/v1
2 kind: ReplicaSet
3 metadata:
4   name: kubia
5 spec:
6   replicas: 3
7   selector:
8     matchLabels:
9       app: kubia
10  template:
11    metadata:
12      labels:
13        app: kubia
14    spec:
15      containers:
16        - name: kubia
17          image: kubia
18          imagePullPolicy: Never

```

- matchExpressions

```

1 selector:
2   matchExpressions:
3     - key: app
4       operator: In

```

```
5     values:
6     - kubern
```

- operator

- In
- NotIn
- Exists
- DoesNotExist

```
1  apiVersion: v1
2  kind: Pod
3  metadata:
4    name: kubern-liveness
5  spec:
6    containers:
7      - image: kubern-unhealthy
8        imagePullPolicy: Never
9        name: kubern
10       livenessProbe:
11         httpGet:
12           path: /
13           port: 8080
14         initialDelaySeconds: 15
```

```
1  - pod 共享 network, UTS, IPC, PID(默认未开启)
2  - 文件系统隔离, 但是可以通过 Volume 共享文件目录
3  - localhost 可以与同一 pod 中的其它容器通信
4  kubectl get po kubern-82d24 -o yaml;
5  kubectl explain pods;
6  kubectl explain pod.spec;
7  kubectl create -f lindyang/kubern-manual.yaml;
8
9  kubectl describe pod kubern-manual | grep 172;
10 minikube ssh;
11 curl 172.17.0.7:8080;
12
13 kubectl logs kubern-manual -c kubern;
```

```
14
15 # 不通过 service 与 pod 通讯
16 kubectl port-forward kubia-manual 8888:8080;
17 curl http://127.0.0.1:8888;
18
19 kubectl get pods --show-labels;
20 kubectl get pod -L creation_method,env;
21
22 kubectl label po kubia-manual creation_method=manual --overwrite
23 # 删除标签, -
24 kubectl label po kubia-manual createion_method-
25
26 kubectl get po -l creation_method=manual;
27
28 kubectl get po -l env;
29
30 kubectl get po -l '!env';
31 env!=prod
32 'env in (prod,dev)'
33 'env notin (prod,dev)'
34
35 kubectl label node minikube gpu=false;
36
37 kubectl annotate pod kubia-manual mycompany.com/someannotation="foo bar";
38
39 kubectl get po --namespace kube-system;
40
41 kubectl get ns;
42
43 kubectl delete namespace custom-namespac;
44 kubectl create namespace custom-namespac;
45 kubectl create -f lindyang/kubia-manual.yaml -n custom-namespac;
46
47 命名空间不允许包含点号.
48
49 alias kcd='kubectl config set-context $(kubectl config current-context) --
namespace'
50
51 kubectl delete pod po1 po2;
52
53 kubectl delete po -l creation_method=manual;
54
55 kubectl delete ns custom-namespac;
56
57 kubectl delete po --all;
58
59 kubectl delete all --all;
```

- Namespace

```
1  apiVersion: v1
2  kind: Namespace
3  metadata:
4    name: custom-namespace
```

```
1  apiVersion: v1
2  kind: Pod
3  metadata:
4    name: kubia-gpu
5  spec:
6    nodeSelector:
7      gpu: "true"
8    containers:
9      - name: kubia
10        image: kubia
11        imagePullPolicy: Never
```

```
1  minikube status;
2  minikube kubectl -- get pods -A;
3  alias kubectl="minikube kubectl --";
4  minikube kubectl cluster-info;
5  sudo apt install bash-completion;
6  source <(kubectl completion bash | sed s/kubectl/k/g);
7
8  kubectl run --image=kubia --port=8080 kubia;
9  kubectl get pod kubia -o yaml -n default;
10 kubectl describe pod kubia;
11
12 https://www.cnblogs.com/xiao2/p/16047455.html;
13 minikube image load kubia;
14 minikube image build -t <IMAGE_NAME> .;
15
```

```
16 kubectl get nodes;
17
18 kubectl apply -f lindyang/deployment.yaml;
19 kubectl delete -f lindyang/deployment.yaml;
20 kubectl port-forward kuba-868cd55b98-qzz79 8080:8080;
21 kubectl expose pod kuba-868cd55b98-qzz79 --type=LoadBalancer --name kuba-
http;
22 # minikube 不支持 LoadBalancer;
23 minikube service kuba-http;
24 kubectl get rc;
25 kubectl get services; # src
26
27 kubectl scale --replicas=3 -f lindyang/deployment.yaml;
```

```
1  apiVersion: v1
2  kind: ReplicationController
3  metadata:
4    name: kuba
5  spec:
6    replicas: 3
7    --- selector:
8    --- app: kuba
9    template:
10     metadata:
11       name: kuba
12       labels:
13         app: kuba
14     spec:
15       containers:
16         - name: kuba
17           image: kuba
18           imagePullPolicy: Never
19           ports:
20             - containerPort: 8080
21     ---
22  apiVersion: v1
23  kind: Service
24  metadata:
25    name: kuba
26  spec:
27    type: LoadBalancer
28    selector:
29      app: kuba
```

```
30     ports:
31     - port: 8080
32       targetPort: 8080
```

```
1  apiVersion: apps/v1
2  kind: Deployment
3  #kind: ReplicaSet
4  metadata:
5    name: kubia
6    labels:
7      name: kubia
8  spec:
9    replicas: 3
10   selector:
11     matchLabels:
12       name: kubia
13   template:
14     metadata:
15       labels:
16         name: kubia
17     spec:
18       containers:
19         - name: kubia
20           image: kubia
21           imagePullPolicy: Never
22           ports:
23             - containerPort: 8080
```

<https://github.com/AliyunContainerService/minikube/wiki>

<https://www.cnblogs.com/hukey/p/18061513>

<https://kubernetes.oss-cn-hangzhou.aliyuncs.com/minikube/releases/v1.20.0/minikube-linux-amd64>

```
1  https://github.com/kubernetes/minikube/releases/download/v1.24.0/minikube-
   linux-amd64;
2
3  minikube delete;
4  minikube delete --all --purge;
```

```
5
6
7 minikube start --force --driver=docker \
8 --image-mirror-country='cn' \
9 --registry-mirror=https://docker.mirrors.ustc.edu.cn \
10 --image-repository=registry.cn-hangzhou.aliyuncs.com/google_containers
11
12
13 minikube start \
14 --kubernetes-version=v1.23.8 \
15 --image-mirror-country='cn' \
16 --image-repository='registry.cn-hangzhou.aliyuncs.com/google_containers';
17
18
19 minikube start --image-mirror-country=cn;
20
21 minikube kubectl -- create clusterrolebinding system:anonymous \
22 --clusterrole=cluster-admin \
23 --user=system:anonymous;
24
25 kubectl proxy \
26 --port=8888 \
27 --address='192.168.1.20' \
28 --accept-hosts='^.*' >/dev/null 2>&1 &;
29
30
31 minikube kubectl -- get pods -A;
32 minikube kubectl -- logs kube-proxy-2z5gg -n kube-system;
33 sudo sysctl -w net.netfilter.nf_conntrack_max=524288;
34
35 minikube kubectl -- describe pods .. -n kubernetes-dashboard
36 # minikube start --disk-size="10g" \
37 #--image-mirror-country="cn" \
38 #--image-repository="registry.cn-hangzhou.aliyuncs.com/google_containers";
```

Dashbaord 失败

https://blog.csdn.net/jialiange_chen/article/details/140761362

```
1 minikube ssh;
2
3 docker pull registry.cn-hangzhou.aliyuncs.com/google_containers/metrics-
  scraper:v1.0.8;
4
5 docker tag registry.cn-hangzhou.aliyuncs.com/google_containers/metrics-
  scraper:v1.0.8 \
```



```
6 docker.io/kubernetesui/metrics-scraper:v1.0.8;
7
8 docker pull registry.cn-
hangzhou.aliyuncs.com/google_containers/dashboard:v2.7.0;
9
10 docker tag registry.cn-
hangzhou.aliyuncs.com/google_containers/dashboard:v2.7.0 \
11 kubernetesui/dashboard:v2.7.0;
12
13
14 registry.hub.docker.com/kubernetesui/dashboard:v2.1.0;
15 registry.hub.docker.com/kubernetesui/metrics-scraper:v1.0.4;
```

```
1 wget https://oss-cdn.nebula-graph.com.cn/package/3.8.0/nebula-graph-
3.8.0.ubuntu2004.amd64.deb;
2 sudo /usr/local/nebula/scripts/nebula.service start all;
3
4 ~/Downloads/nebula-console-linux-amd64-v3.8.0 -addr 127.0.0.1 -port 9669 -u
root -p dummy -t 3000
5 查看集群：查看集群状态
6 查看单个：SHOW HOSTS GRAPH、SHOW HOSTS STORAGE、SHOW HOSTS META;
7 ADD HOSTS 127.0.0.1:9779
8 心跳：heartbeat_interval_secs
9 GO语句采用的是walk类型路径;
10 MATCH、FIND PATH和GET SUBGRAPH语句采用的是trail类型路径;
11
12 $$ 表示边的终点;
13 $^ 表示边的起点;
14 $- 表示管道符前面的查询输出的结果集;
15
16 已写入但未构建索引”的数据重建索引，否则无法在MATCH和LOOKUP语句中返回这些数据;
17 // 重建索引确保能对已存在数据生效。
18 nebula> REBUILD TAG INDEX player_index_1;
19
20 create edge index follow_index_1 on follow(degree);
21 rebuild edge index follow_index_1;
22
```

Windows git bash 设置字体大小

```
1 echo > ~/.minttyrc <<EOF
2 Font=Consolas
3 FontHeight=14
4 EOF
```

sougou_input

```
1 搜狗输入法4.0.1可以通过配置文件来实现中文时使用英文标点。
2 vim ~/.config/sogoupinyin/conf/env.ini
3
4 在该配置文件中添加一行
5 DefaultSymbol=0
6
7 然后重新启动输入法即可。
```

postgres

```
1 sudo -u postgres psql;
2 ALTER USER postgres WITH PASSWORD 'Mjolnir';
3 CREATE DATABASE mydatabase TEMPLATE template0 ENCODING 'UTF8';
4
5 select datid, datname,
6        pid,
7        usesysid,
8        username,
9        client_addr,
10       client_port,
11       query_start,
12       state
13       --,query
14 FROM pg_stat_activity;
```

```
1 ps --ppid 2 -p 2 -N -f;
2 iptables -I INPUT 2 -p tcp -m multiport --dport 80,5000 -j ACCEPT;
3
```

[cookie](<https://blog.csdn.net/p312011150/article/details/82179704/>)

```
1 proxy_cookie_path / "/; Secure; SameSite=Lax"; # 去掉 Secure
```

Jenkins

```
1 FROM ubuntu:16.04
2 MAINTAINER james@example.com
3 ENV REFRESHED_AT 2014-06-01
4
5 RUN apt-get update -qq && apt-get install -qqy curl apt-transport-https
   software-properties-common
6 #RUN curl -fsSL https://download.docker.com/linux/ubuntu/gpg | apt-key add -
7 COPY gpg /tmp/gpg
8 RUN cat /tmp/gpg | apt-key add -; rm /tmp/gpg
9 RUN apt-get clean && rm -rf /var/lib/apt/lists/*
10 #RUN echo deb https://apt.dockerproject.org/repo ubuntu-trusty main >
   /etc/apt/sources.list.d/docker.list
11 RUN add-apt-repository "deb [arch=amd64]
   https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
12 RUN apt-get update -qq && apt-get install -qqy --allow-unauthenticated
   iptables ca-certificates git-core
13 RUN apt-get install -qqy --allow-unauthenticated docker-ce
14 #RUN apt-get install -qqy --allow-unauthenticated openjdk-9-jdk
15 RUN add-apt-repository -y ppa:openjdk-r/ppa
16 RUN apt-get update -qq && apt-get install -qqy openjdk-17-jdk
17
18 ENV JENKINS_HOME /opt/jenkins/data
19 #ENV JENKINS_MIRROR http://mirrors.jenkins-ci.org
20
21 RUN mkdir -p $JENKINS_HOME/plugins
22 #RUN curl -sf -o /opt/jenkins/jenkins.war -L $JENKINS_MIRROR/war-
   stable/latest/jenkins.war
23 COPY jenkins.war /opt/jenkins/jenkins.war
24
25 #RUN for plugin in chucknorris greenballs scm-api git-client git ws-cleanup ;\
26 #   do curl -sf -o $JENKINS_HOME/plugins/${plugin}.hpi |
27 #       -L $JENKINS_MIRROR/plugins/${plugin}/latest/${plugin}.hpi ; done
28 COPY ./*.hpi $JENKINS_HOME/plugins/
29
30 ADD ./dockerjenkins.sh /usr/local/bin/dockerjenkins.sh
31 RUN sed -i 's/^docker daemon/dockerd/' /usr/local/bin/dockerjenkins.sh
32 RUN chmod +x /usr/local/bin/dockerjenkins.sh
33
34 #VOLUME /var/lib/docker
35
36 EXPOSE 8080
37
```

```
38 # docker daemon & => dockerd
39 ENTRYPOINT [ "/usr/local/bin/dockerjenkins.sh" ]
40
41
42 $ sudo mkdir -p /var/jenkins_home
43 $ cd /var/jenkins_home
44 $ sudo chown -R 1000 /var/jenkins_home
45
46 docker run --privileged -d \
47 -p 8080:8080 \
48 -v /var/jenkins_home:/opt/jenkins/data \
49 -v /var/run/docker.sock:/var/run/docker.sock \
50 --name jenkins \
51 lindyang/jenkins
52
53 sudo sed -i 's/https:/http:/'
54 /var/lib/docker/volumes/data/_data/hudson.model.UpdateCenter.xml;
55 # http://mirrors.tuna.tsinghua.edu.cn/jenkins/updates/update-center.json
56 # https://baijiahao.baidu.com/s?id=1742735186119625775&wfr=spider&for=pc
57 # https://www.cnblogs.com/yshc/p/10621224.html
58
59 https://updates.jenkins.io/download/plugins/skip-certificate-check/1.1/skip-
60 certificate-check.hpi
61 - Dashboard/Manage Jenkins/插件管理/advanced
62 - https://www.cnblogs.com/fengwenqian/p/13534786.html
63
64 http://updates.jenkins.io/update-center.json;
65 https://gitee.com/Errorcode500/docker-jenkins-sample.git
66
67 /opt/jenkins/data/jobs/${JOB_NAME}/workspace
68
69 cat > Dockerfile <<EOF
70 FROM ubuntu:16.04
71 RUN echo "while true; do date; echo $WORKSPACE; sleep 1; done" >
72 /usr/bin/run.sh
73 CMD ["/bin/bash", "/usr/bin/run.sh"]
74 EOF
75 docker build -t loop_test_$(date +%s) .
76 docker run -d --name loop_test.$(date +%s) loop_test_$(date +%s)
77 docker logs loop_test.$(date +%s)
78 docker stop loop_test.$(date +%s)
79 docker rm loop_test.$(date +%s)
80 docker rmi loop_test_$(date +%s)
```

TProv

```
1 ruby File.exists => File.exist
```

生成证书

```
1 openssl genpkey -algorithm RSA -out private.key -pkeyopt rsa_keygen_bits:2048;
2
3 openssl req -new -key private.key -out request.csr -subj \
4 "/C=CN/ST=Beijing/L=Beijing/O=WebRay/OU=IT/CN=cacheproxy.com/emailAddress=ridw
5 ard@qq.com"
6 openssl x509 -req -days 36135 -in request.csr -signkey private.key -out
7 certificate.crt;
8
9 openssl pkey -in private.key -text -noout;
10 openssl req -in request.csr -text -noout;
11 openssl x509 -in certificate.crt -text -noout;
```

升级系统

```
1 上传包到 172.21.15.38
2 /var/log/webraydb/Dump/NJ/WebRay/1cf935508eb43c32a229826cf8c1be59
3
4 在要升级的系统上以 admin 执行
5 # patchup/patchall
6 patchup -u 1cf935508eb43c32a229826cf8c1be59 -p E9DCCB48 \
7 -i ftp://172.21.15.38:10021/fap-cacheproxy-1.0.0-T6-20250211205624-openEuler-
8 x86_64.img
```

Kratos

```
1 kratos proto client api/helloworld/v1/demo.proto -- --go-
http_opt=omitempty=false;
```

Rbenv

```

1
2 # https://github.com/Tensho/docker-rbenv/blob/master/Dockerfile
3
4 FROM ubuntu:20.04
5 RUN apt-get -yqq update
6 RUN DEBIAN_FRONTEND=noninteractive TZ=Asia/Shanghai apt-get -y install tzdata
7 RUN apt-get -yqq install build-essential nodejs
8 RUN apt-get -yqq install git wget libffi-dev zlib1g-dev libyaml-dev
9 RUN rm /bin/sh && ln -s /bin/bash /bin/sh
10 #RUN wget -q -O ~/.rbenv/cache/ruby-3.4.1.tar.gz -c https://ftp.ruby-
    lang.org/pub/ruby/3.4/ruby-3.4.1.tar.gz;
11 RUN git clone --depth=1 https://github.com/rbenv/rbenv.git /root/.rbenv
12 RUN git clone --depth=1 https://github.com/rbenv/ruby-build.git
    /root/.rbenv/plugins/ruby-build
13 RUN /root/.rbenv/plugins/ruby-build/install.sh
14 ENV PATH /root/.rbenv/bin:/root/.rbenv/shims:$PATH
15 RUN echo 'eval "$(rbenv init -)"' >> /root/.bashrc
16 RUN mkdir -p /root/.rbenv/cache
17 COPY ruby-3.4.1.tar.gz /root/.rbenv/cache/
18 RUN rbenv install 3.4.1
19 RUN rbenv global 3.4.1
20 RUN gem sources --remove https://rubygems.org/ --add
    https://mirrors.tuna.tsinghua.edu.cn/rubygems/;
21 RUN gem update --system
22 RUN gem install ffi -v 1.17.1
23 #RUN gem install -s https://gems.ruby-china.com/ jekyll -v 2.5.3
24 RUN gem install jekyll -v 2.5.3
25 VOLUME /data
26 VOLUME /var/www/html
27 WORKDIR /data
28
29 ENTRYPOINT ["jekyll", "build", "--destination=/var/www/html"]
30
31 # gem install faraday-retry

```

Uwsgi

```

1 https://github.com/unbit/uwsgi/issues/2117;
2
3 ARG uwsgi_dir=/var/lib/gems/2.5.0/gems/uwsgi-2.0.20
4 RUN mkdir -p $uwsgi_dir/ext/uwsgi
5 RUN curl -o $uwsgi_dir/ext/uwsgi/install.sh
    https://raw.kkgithub.com/unbit/uwsgi/refs/heads/master/install.sh
6 RUN sed -i 's/curl /curl -k /' $uwsgi_dir/ext/uwsgi/install.sh
7 RUN apt-get -yqq install python3

```

```
8 RUN cd $uwsgi_dir/ext/uwsgi; bash install.sh ruby2
   $uwsgi_dir/ext/uwsgi/uwsgi.ruby
9 RUN mkdir -p $uwsgi_dir/bin; cp
   $uwsgi_dir/ext/uwsgi/uwsgi_latest_from_installer/bin/uwsgi $uwsgi_dir/bin/;
10 ENV PATH=$uwsgi_dir/bin:$PATH
11 RUN uwsgi --version;
```

Docker book

```
1 https://wangwei1237.github.io/Kubernetes-in-Action-Second-Edition/
2
3 ip link set docker0 up;
4 DOCKER_HOST;
5 redis-server --protected-mode no;
6 docker-compose logs/ps/stop/start/rm/kill;
7
8 curl --unix-socket /var/run/docker.sock http://docker/info
9
10 docker -H tcp://127.0.0.1:2375 images;
```

交叉编译

```
1 https://github.com/kekeqy/windows-hosted-x86_64-linux-musl-gcc-cross-compiler
2 https://www.cnblogs.com/nvim/p/18631356
3 https://juejin.cn/post/7168747781388140580
4
5
```

工作整理

待办事项

- https://blog.csdn.net/weixin_40242845/article/details/128400291
- Multiple ssh.Channel status issues
- <https://blog.csdn.net/hui1429/article/details/80144863>
- 默认的上传下载速度
- 批量修改自动发布根列表
- 用户信息

- 自动创建 policy-data 目录
- 创建 user 表
- SyncStatus, 更新 status, 管理 ssh.Channel
- 根账户(无)
- LoadFromFile 去掉 os.MkdirAll
- 更改用户时的 ssh.Channel 处理, r.CloseSftpReqServers
- 关联状态
- 用户界面.探测器 = &pb
- 日志大小处理
- https://www.gnu.org/software/bash/manual/html_node/Shell-Parameter-Expansion.html

```
-func (r *probeRepo) PasswordReset(username, oldpass, pass string) error {
-    if err := r.VerifyPassword(username, oldpass); err != nil {
-        return err
-    }
-
-    r.data.Probes[r.data.ProbeIDIndex[username]].Password = pass
-    return nil
-}

-func (r *probeRepo) VerifyCredential(username string, pubkey ssh.PublicKey) error {
-    // TODO: impl
-    return nil
-}

-func (r *probeRepo) Configs() *conf.Data {
-    return r.configs
-}

-func (r *probeRepo) WhiteList() []string {
-    wl := []string{}
-
-    for _, p := range r.data.Probes {
-        if p == nil {
-            continue
-        }
-        wl = append(wl, p.ProbeEgressIP)
-    }
-    return wl
-}
```

引擎管理器

* 引擎名称: 172.18.6.140

* 厂商: WebRAY

* 设备类型: RayGate

* 部署模式: 单机

* 引擎IP: 172.18.6.140

* 协议: https

* 端口: 8443

* 所属引擎组: api引擎组

* 用户名: apiuser

* 密码: admin123!

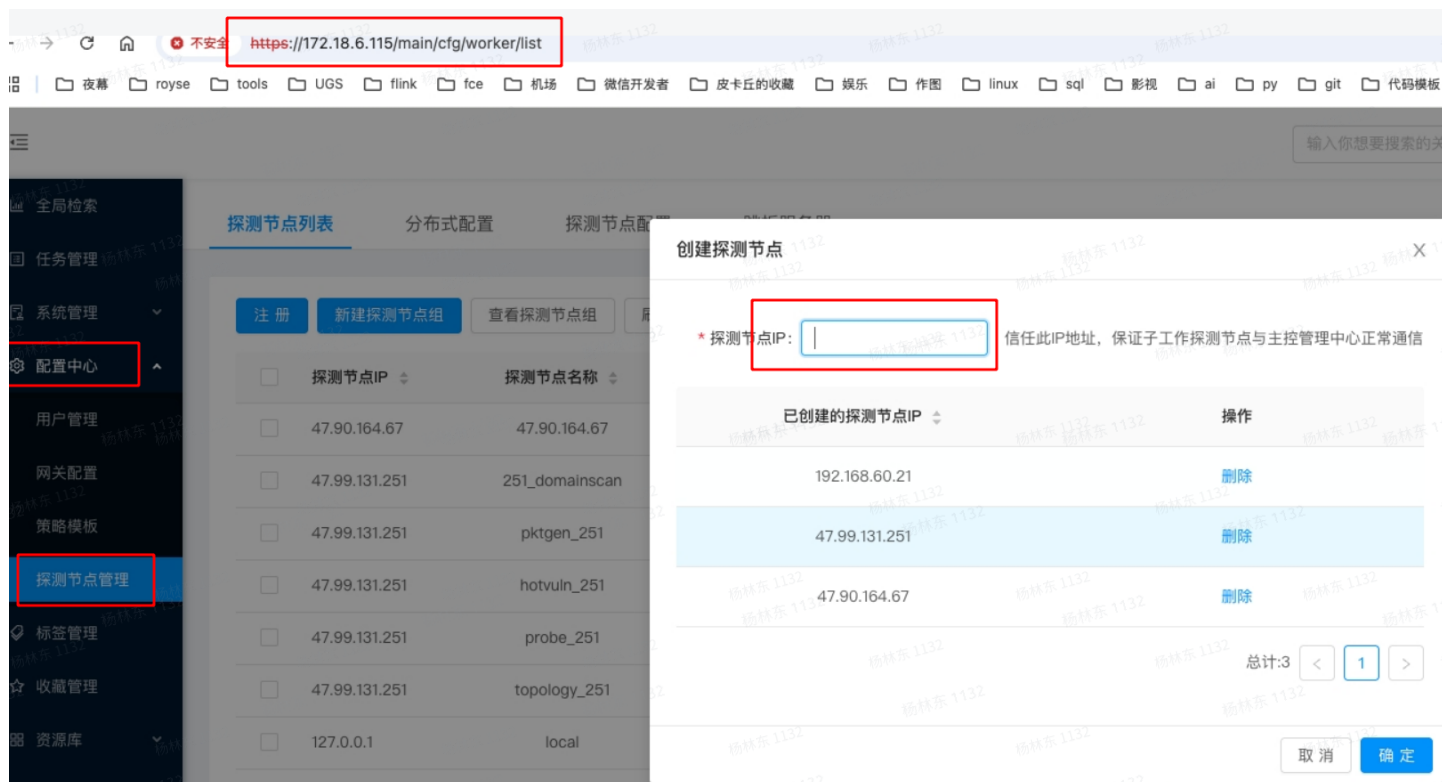
代码块

```
1 默认 443 端口
2
3
4 /api/v1
5 http://127.0.0.1:89
6
7 /usr/lib/python3.7_venv_raygate/bin/uwsgi \
8     --ini /rayos/app/webapp/raygate/uwsgi.ini
9 后端, 插入数据
10
11 引擎的日志在 tail -f /var/log/webraydb/workermmsg.log;
12 2025-04-14 10:33:22,703 INFO: [MainProcess] worker_manage 状态正常 ... [in
worker.py:119]
13 2025-04-14 11:03:24,468 INFO: [MainProcess] worker_manage 状态正常 ... [in
worker.py:119]
14
15
16 ^/(finger|async|logout|cfg|asset|system|report|logsystem|engine|label|base|acti
ve)/
17 http://127.0.0.1:80
18
19 /usr/bin/python2 -
20 /rayos/app/webapp/paladin/run.py
21
22
23 ^/vm/(vmreport|download|css|js|img|signin)
24 http://127.0.0.1:16530
```

```
25
26
27 /rayos/app/worker_manage
28 python3 /RayOS/app/worker_manage/worker.py
29 上报引擎心跳
30 引擎
31 分布式引擎: jobexe
32 api引擎, 能登录
33
34 python3 /RayOS/app/worker_manage/worker.py
35
36
```

IP段加白, 添加引擎

超人/测试123!



蟒蛇

- from urllib.parse import quote

C++

<https://blog.csdn.net/youlinhuanyan/article/details/142738063>

内存布局: <https://www.cnblogs.com/zi1991/p/7040687.html>

核心转储

代码块 go race condition check

```
2
3 # ulimit -c;
4 ulimit -c unlimited;
5
6 # %e是可执行文件的名称,%s是信号名,%u是用户ID,%g是组ID,%p是进程ID,%t是时间戳
7
8 cp /etc/sysctl.conf{,.bak};
9 echo 'kernel.core_pattern=/var/log/rlog/cacheproxy/core-%e-%s-%u-%g-%p-%t' \
10 >> /etc/sysctl.conf;
11 sysctl -p;
```

公寓

- https://wiki.debian.org/zh_CN/Apt
- <https://wiki.debian.org/AptCLI>

苏瑞卡塔

- Sourceinsight rust

<https://linuxcpp.0voice.com/?id=112226>

- <https://zhuanlan.zhihu.com/p/632044134>

定时任务

- <https://segmentfault.com/a/1190000023029219>

Docker

代码块

```
1 {
2     "insecure-registries": ["172.21.1.73:8080"],
3     "registry-mirrors": ["http://172.21.1.73:8080"]
4 }
```

代码块

```
1 # docker mirrors
2 # 目前国内可用Docker镜像源汇总
3 # https://www.coderjia.cn/archives/dba3f94c-a021-468a-8ac6-e840f85867ea
```

```
4
5 docker build \
6   -t registry.ibdp.webray.com.cn:51808/fap/autopost:latest \
7   -f ./dockerfiles/autopost.Dockerfile .
```

Git

代码块

```
1 https://kkgithub.com/
2 https://hub.yzuo.cf/
3
4 # 提交时转换为LF, 检出时转换为CRLF
5 git config --global core.autocrlf true
6
7 # 提交和检出时都不转换
8 git config --global core.autocrlf false
9
10 # 提交时转换为LF, 检出时不转换
11 git config --global core.autocrlf input
```

缓存代理

管理环境

虚拟平台:

<https://172.21.151.12:8006/#v1:0:=qemu%2F104:4:5:.....>

root Webray@0808

<https://172.21.15.37/user/login>

admin: 2025-01-09 15:02:36

页面: admin ABa2l@23Fulv1

代码块

```
1 https://172.21.151.12:8006/#v1:0:=qemu%2F104:4:5:.....
2
3 root/Webray@0808
4
5 172.21.150.109
6 admin/Webray@12345678
7
```

Env 配置

代码块

```
1 CC=x86_64-linux-musl-gcc
2 CGO_ENABLED=1
3 CGO_LDFLAGS=-O2 -g -static
4 GOROOT=C:/Program Files/go
5
```

代码块

```
1 func(*Server)
2
3 type Handler func(context.Context, net.Conn) error
4 type SFTPMiddleware func(Handler) Handler
5
6 func Chain(m ...SFTPMiddleware) SFTPMiddleware {
7     return func(next Handler) Handler {
8         for i := len(m) - 1; i >= 0; i-- {
9             next = m[i](next)
10        }
11        return next
12    }
13 }
14
15 s.middleware = []{
16     Recovery(),
17     SSHAuth(ss.SSHConfigs()),
18     WhiteList(ss.GetProbeEgressIP),
19     Status(ss.GetProbeStatus),
20     Logging(),
21     ConnectionLimit(ss.Limit)
22 }
23 next = ServeSFTP(ctx context.Context, conn net.Conn) error {
24     s.probe.AppendSftpReqServer(p.Username, channel, connID)
25     defer s.probe.RemoveSftpReqServer(p.Username, connID)
26     defer server.Close()
27     server.Serve()
28 }
29 go Recovery(
30     SSHAuth(
31         WhiteList(
32             Status(
33                 go ps.Active()
34                 defer func(){
35                     if cnt==0 {
```

```

36         go. ps.Logoff()
37     }
38     }()
39     Logging(
40         ConnectionLimit(next)
41     )
42 )
43 )
44 )
45 )
46
47 Logging: info user "ridward" logged out
48 go.ps.Logoff

```

代码块

```

1  https://blog.csdn.net/Eivene/article/details/140774552
2  - reflect
3  http://bbs.itying.com/topic/676cf34b5b798701ddf78072
4
5  - 服务器管理
6  https://172.21.150.16/ui/#/host/vms/89
7  root/Esxi#0926
8  - 150.39 的账密 root/Superman@12345
9
10 - proxmox 账户
11 root/Webray@0808
12
13 - 删除
14 点中-more-remove
15
16 探针: https://172.21.15.37/user/login
17 admin/ABa2l@23Fulv1
18
19 系统管理/集中配置管理
20
21
22 - img 下载
23 - 外部: http://172.18.9.4:8001/products/fap-cacheproxy/
24 - 内部: http://172.21.1.25:8000/products/fap-cacheproxy/
25
26
27 上传 data(ibpd-uat-01), upload,
28
29 创建系统,
30 两个盘, 128G, 256G

```

```
31 2 sockets, 4 cores = 8 cres
32 16384 Memory MiB(16G)
33
34 - 登录账号: root/webray++
35 - 安装密码: WebRW2r$
36 输入 y 确认
37
38 等待好长时间....
39
40 y; xfs; rdata/cacheproxy; y; reboot;
41
42 等好久...
43 admin密码默认aDmin@3.21, 首次登录需修改密码, 修改后使用新密码登录 Forget@12345678
44
45 配置网络
46 vlan -A -v MngtVlan -f 172.21.150.107 -m 255.255.255.0;
47 vlan -S;
48 route -A -i 0.0.0.0 -m 0.0.0.0 -g 172.21.150.1;
49 route -S;
50
51 settime
52 help
53 upsshd start
54
55
56 [autopost]
57
58 docker build \
59 -t registry.ibdp.webray.com.cn:51808/fap/autopost:latest \
60 -f ./dockerfiles/autopost.Dockerfile .;
61
62 docker save registry.ibdp.webray.com.cn:51808/fap/autopost -o 'autopost.tar';
63
64 [autopost]
65 - sftp_policy_path: /policy-data
66     pull 模式要忽略的远程 server 的策略存储目录
67     push 不用此配置
68     root 账户的家目录 HomeDir (所以单导pull模式能同步此目录下的所有文件)
69 - file_path: /home/
70     定期清理老文件的目录, NewMonitorRepo 中的的 DataDir:
71     pull 模式下文件同步到的目录
72     push 模式不用此配置
73 - policy_file_path: /home/policy-data
74     pull 模式不用此配置
75     push 的时候, 本地策略所在文件夹, 同时也在检测文件
76
77 [cacheproxy]
```

```
78 RootAccount() 一致维护 root 用户
79 - data_dir: /home/cacheproxy/data
80   探针文件夹创建的目录
81   策略解压到的目录
82   定期清理的目录 (NewMonitorRepo)
83   root 用户的家目录
84 - app_dir: /home/cacheproxy
85   创建一个 policy-data-backup 目录备份
86   cert 所在目录
87   data.db 所在目录
88   处理请求的时候看了这个目录的信息??? HandleConn: IsDiskWork()
89 - policy_data_dir: /home/cacheproxy/data/policy-data
90   push 过来的策略的存储路径
91   定期检测并需要解压 .tgz
92
93 p.HomeDir 是不同 sftpServer 的目录
94
95 SystemProbeRecover
```

代码块

```
1  scp -O -l 1024 /d/... root@172.21.150.28:/cacheproxy/
2
3
4  # 172.21.150.27
5  export GOPROXY="http://172.21.3.11:3000"
6  账密: admin/Admin123, 端口是 8000
7
8
9  - cmd/cacheproxy/main.go
10  ///go:embed web/*
11
12  - go.mod
13  toolchain go1.21.4
14
15  - configs/config.json
16  data_dir
17  app_dir
18  policy_data_dir
19
20
21  https://github.com/protocolbuffers/protobuf/releases
22  # exec: "protoc": executable file not found in %PATH%
23  https://github.com/protocolbuffers/protobuf/releases/download/v29.2/protoc-
24  29.2-win64.zip;
```



```

24
25
26 VERSION=1.0;
27 # https://www.jianshu.com/p/10ae8a5a7704
28 # go get github.com/go-kratos/kratos/cmd/kratos/v2@latest;
29 go install github.com/go-kratos/kratos/cmd/kratos/v2@latest;
30
31 kratos proto client ./internal/conf/conf.proto;
32 kratos proto client ./api/cacheproxy/v1/cacheproxy.proto;
33
34
35
36 go build -ldflags "-X main.Version=$(VERSION)";
37 chmod a+x /usr/local/go/bin/kratos;
38 go mod tidy;
39 cd cmd/cacheproxy;
40 go build;
41 ./cacheproxy -conf ../../configs/config.json;
42 dlv --listen=:2345 --headless=true --api-version=2 --accept-multiclient exec
  ./cacheproxy
43
44 缓存转发的 root_passwd 要配置为 root
45 # ../../configs/autopost.yaml 要配置 sftp_address 和 3 个目录
46 ./autopost -conf ../../configs/autopost.yaml -mode push
47 上传文件到单导的 /cacheproxy/home/policy-data
48 单导日志类似:
49 caller=biz/autopost_push.go:203 ... \
50   policy-data/20241221181530_policy.tgz.part successfully
51
52 缓存转发的日志类似:
53 caller=biz/monitor.go .... \
54   job: /home/cacheproxy/data/policy-data/20241221181530_policy.tgz
55
56 文件会被解压到 /home/cacheproxy/data 下
57   - 0XSDJI902
58   - 0XSDJI905
59   - 0XSDJI908
60   - E04C81F400
61   - SXXAtest11
62 /home/cacheproxy/data/policy-data
63 /home/cacheproxy/policy-data(??? 是什么)

```

走

- 专业bu协议: <https://www.cnblogs.com/zhanchenjin/p/17454978.html>

```

1 runtime.gcdata: missing Go type information for global symbol .dynsym: size 72
2 https://www.cnblogs.com/binHome/p/13020178.html
3
4 https://www.jianshu.com/p/a73cef45b65c
5
6 wire:
7 https://www.cnblogs.com/jiujuan/p/16136633.html
8
9 在 service/service.go
10 type AppRepo interface {
11     ...
12 }
13
14 在 data/data.go
15 type appRepo struct {
16     *mq
17     *db
18     *dp
19 }
20
21 func NewAppRepo() service.AppRepo {
22     appRepo := &appRepo{}
23     return appRepo
24 }
25
26 //
27 google.golang.org/protobuf/types/known/anypb
28
29 marshal := v1.Flow { Enable: true, Subset: "127.0.0.1" }
30 any, err := anypb.New(&marshal);
31 [type.googleapis.com/engmgr.v1.Flow]:{enable:true, subset:"127.0.0.1"}
32
33 grpcurl -plaintext -H "x-user-id: 1" 172.21.150.109:9000 list;
34 grpcurl -plaintext -H "x-user-id:1" -d '{} ' 172.21.150.109
engmgr.v1.App.CreateGrp;

```

代码块

```

1 # 文档
2 https://www.topgoer.com/go%E5%9F%BA%E7%A1%80/%E7%BB%93%E6%9E%84%E4%BD%93.html
3
4 # 自定义 json
5 https://juejin.cn/post/6844904184651874312

```

代码块

```
1 # select
2 https://www.cnblogs.com/qcy-blog/p/18520091
3 # docker copy
4 https://developer.baidu.com/article/details/3214252
5 # break
6 https://blog.csdn.net/u011461385/article/details/106017483
7 # chan
8 https://blog.csdn.net/chenchongg/article/details/86589395
9 # nil, close chan
10 https://dave.cheney.net/2014/03/19/channel-axioms
11 # strace
12 // 只显示 renameat 的调用情况
13 strace -f -e trace=renameat go run ./script/download-go go1.22.3
14
15 # switch语句也可以与false字面值一起使用，提供了一种确定哪些条件未满足的方法
16 https://www.cnblogs.com/cheyunhua/p/17945018
```

代码块

```
1 for pos, char := range "日本\x80語" { // \x80 is an illegal UTF-8 encoding
2     fmt.Printf("character %#U starts at byte position %d\n", char, pos)
3 }
4
5
```

代码块

```
1 the module github.com/google/go-cmp contains a package in the directory cmp/.
2 That package's import path is github.com/google/go-cmp/cmp.
3 Packages in the standard library do not have a module path prefix
4
5 go install example/user/hello;
6
7
8 The install directory is controlled by the GOPATH and GOBIN environment
  variables.
9 If GOBIN is set, binaries are installed to that directory.
10 If GOPATH is set, binaries are installed to the bin subdirectory of
  the first directory in the GOPATH list.
11 Otherwise, binaries are installed to the bin subdirectory of
  the default GOPATH ($HOME/go or %USERPROFILE%\go)
12
13
14
```

```

15 go env -u GOBIN;
16
17 $(dirname $(go list -f '{{.Target}}' .));
18
19 go help importpath;
20
21 GOPATH: $HOME/.cache/go-build;
22
23 import "example/user/hello/morestrings";
24
25 go mod tidy;
26
27 $HOME/.mygo/pkg/mod/
28
29 go clean -modcache;

```

代码块

```

1 go list -f '{{.Target}}';
2 go env -w GOBIN=/path/to/your/bin;
3
4 Named return values;
5 A var statement can be at package or function level.
6 := 只可以在函数内使用.
7 rune is int32;
8 uintptr;
9
10 %T, %v
11 Zero values;
12 different type requires an explicit conversion;
13 Gos switch cases need not be constants, and the values involved need not be
   integers;
14 Unlike C, Go has no pointer arithmetic.;
15
16 type Vertex struct {
17     X int
18     Y int
19 }
20
21 (*p).X -> p.X;
22
23 var (
24     v1 = Vertex{1, 2} // has type Vertex
25     v2 = Vertex{X: 1} // Y:0 is implicit
26     v3 = Vertex{}    // X:0 and Y:0
27     p = &Vertex{1, 2} // has type *Vertex

```

```

28 )
29
30 Slices are like references to arrays;
31 cap();
32 a := make([]int, 5) // len(a)=5;
33 b := make([]int, 0, 5) // len(b)=0, cap(b)=5;
34 strings.Join;
35 The range form of the for loop iterates over a slice or map.
36 for i := range pow;
37 delete(m, key)
38 elem, ok = m[key]
39
40 The make function returns a map of the given type, initialized and ready for
  use;
41
42
43 func fibonacci() func() int {
44     i, j := 0, 1
45     return func() int {
46         i, j = j, i+j
47         return i
48     }
49 }
50
51 Methods:
52 The receiver appears in its own argument list
53 between the func keyword and the method name.
54 func (v Vertex) Abs() float64 {
55     return math.Sqrt(v.X*v.X + v.Y*v.Y)
56 }
57
58
59 You can only declare a method with a receiver
60 whose type is defined in the same package as the method.
61 Pointer receivers;
62
63 Go interprets the statement v.Scale(5) as (&v).Scale(5);
64 p.Abs() is interpreted as (*p).Abs();
65
66 type Abser interface {
67     Abs() float64
68 }
69
70 func (t *T) M() {
71     if t == nil {
72         fmt.Println("<nil>")
73     }
74     return

```

```

74     }
75     fmt.Println(t.S)
76 }
77
78 # Type assertions
79 t := i.(T);
80 t, ok := i.(T);
81
82 switch v := i.(type);
83
84 type Stringer interface {
85     String() string
86 }
87
88 func (p Person) String() string {
89     return fmt.Sprintf("%v (%v years)", p.Name, p.Age)
90 }
91
92 type error interface {
93     Error() string
94 }
95
96 %q;
97
98 func Index[T comparable](s []T, x T) int
99
100 type List[T any] struct {
101     next *List[T]
102     val T
103 }
104
105 The evaluation of f, x, y, and z happens in the current goroutine and
106 the execution of f happens in the new goroutine.
107
108
109 ch <- v    // Send v to channel ch.
110 v := <-ch  // Receive from ch, and
111           // assign value to v.
112
113
114 Like maps and slices, channels must be created before use:
115 ch := make(chan int);
116
117 ch := make(chan int, 100);
118
119 v, ok := <-ch;
120

```

```

121 Only the sender should close a channel, never the receiver.
122 Sending on a closed channel will cause a panic.
123
124
125 select {
126 case c <- x:
127     x, y = y, x+y
128 case <-quit:
129     fmt.Println("quit")
130     return
131 }
132
133 mu sync.Mutex;
134 c.mu.Lock();
135 c.mu.Unlock();

```

安全外壳协议

```
/rayos/app/config-ssh/scli/upsshd start
```

pg_dump

代码块

```

1 PGPASSWORD='admin1234' pg_dump -d fusion -U postgres --no-comments \
2 --column-inserts \
3 -t 'rule_ele|model';
4
5
6 -O --no-owner
7 -s --schema-only

```

pg

代码块

```

1 /install/modules/ray-postgresql/stop.sh;
2 psql postgresql://user:pass@host:port/dbname
3 PGPASSWORD='admin1234' psql -U postgres -p 5432 fusion;
4
5 echo "host      ti_graph      {user}      {ip}      md5" >> $PGDATA/pg_hba.conf
6
7
8
9 PGPASSWORD='Mjolnir' pg_dump -d test -U postgres -h 127.0.0.1 --no-comments \
10 --column-inserts \

```

```
11 --schema-only \  
12 -t 'group' \  
13 -t 'device_group' \  
14 -t 'device' \  
15 -t 'engine' \  
16 > enginemgr.sql;  
17  
18  
19 -s --schema-only, 加上只导表结构
```

iptables防火墙

代码块

```
1 /rayos/cfg/iptables_port.conf      6379 5432  
2 /rayos/utlis/netac -A
```

ip地址

代码块

```
1 sudo systemctl restart systemd-resolved.service;
```

代码块

```
1 flock -xn /var/run/custom_worker.lck -c \  
2 "nohup python3 -m flask rq worker &>> /var/log/webraydb/custom_worker.log  
&"
```

代码块

```
1 SELECT col.table_name, col.column_name, col.data_type, des.description  
2 FROM information_schema.columns AS col  
3 JOIN pg_statio_all_tables AS st  
4     ON col.table_name=st.relname  
5 LEFT JOIN pg_description AS des  
6     ON (st.relid=des.objoid AND col.ordinal_position=des.objsubid)  
7 WHERE col.table_name = 'document';
```


limits.conf/sysctl.conf

代码块

- 1 <https://blog.csdn.net/qisianla/article/details/52383426>
- 2 <https://www.cnblogs.com/netsa/p/15385635.html>

Pycharm

代码块

- 1 remote debug, /etc/ssh/sshd_config 中 AllowTcpForwarding yes

防火墙

代码块

- 1 [Unit]
- 2 AssertPathExists=/etc/sysconfig/iptables
- 3 iptables -I INPUT 2 -p tcp -m multiport --dport 80,5000,10290 -j ACCEPT;

Es

代码块

- 1 network.host: 0.0.0.0
- 2 discovery.seed_hosts: ["127.0.0.1"]
- 3
- 4 network.bind_host
- 5 network.public_host
- 6 network.host
- 7 discovery.seed_hosts: 集群主机列表
- 8 discovery.seed_providers: 基于配置文件配置集群主机列表
- 9 cluster.initial_master_nodes: 启动时初始化的参与选主的node, 生产环境必填
- 10
- 11 curl -K https://elastic:elastic@172.21.15.234/_settings?pretty
- 12

alembic 使用

代码块

```

1 cd fusion_app/module/resources/webapp/rayfusion;
2 mkdir misc;
3 cd misc;
4 alembic init db; # create alembic.ini and dir db/
5

```

代码块

```

1 apt-get download git;
2 ssh-copy-id -i ~/.ssh/id_*.pub root@172.21.15.234;
3 useradd -m -s /bin/bash linyang;
4 passwd linyang;
5
6 cp /etc/yum.conf{,.bak};
7 #echo 'proxy=http://172.21.3.11:3128' >> /etc/yum.conf;
8 echo "$USER $HOSTNAME= NOPASSWD: ALL" | sudo tee /etc/sudoers.d/$USER;
9
10
11 cat /etc/os-release
12 cat /etc/yum.repos.d/openEuler.repo

```

sudo apt install zlib1g zlib1g-dev;

sudo apt-get install -y git make build-essential libssl-dev zlib1g-dev libbz2-dev libreadline-dev
libsqlite3-dev wget curl llvm libncurses5-dev libncursesw5-dev xz-utils tk-dev libffi-dev;

sudo apt install liblzma-dev;

v=3.9.19; wget [https://repo.huaweicloud.com/python/\\$v/Python-\\$v.tar.xz](https://repo.huaweicloud.com/python/$v/Python-$v.tar.xz) -P /opt/.pyenv/cache/
--no-check-certificate; pyenv install \$v;

Virtualbox:

适用于 Visual Studio 2019 (版本 16.11) 的 Visual C++ 可再发行组件

1. `sudo groupadd docker`
2. `sudo usermod -aG docker $用户`
3. 【Relogin shell】 or 【switch to root and then switch to the current user】

Docker 镜像

<https://cr.console.aliyun.com/cn-hangzhou/instances/mirrors>

代码块

```
1 ARG DEBIAN_FRONTEND=noninteractive
2 ENV TZ=Asia/Shanghai
3 RUN DEBIAN_FRONTEND=noninteractive TZ=Etc/UTC apt-get -y install tzdata;
4
5 https://github.com/Tensho/docker-rbenv;
```

阿里云镜像查找

<https://developer.aliyun.com/mirror/>

代码块

```
1 # 将可用源进行配置
2 sudo tee /etc/docker/daemon.json <<EOF
3 {
4     "registry-mirrors": [
5         "https://dockerproxy.cn",
6         "https://docker.rainbond.cc",
7         "https://docker.udayun.com",
8         "https://docker.211678.top"
9     ]
10 }
11 EOF
12
13 # 重载，重启Docker服务
14 sudo systemctl daemon-reload
15 sudo systemctl restart docker
```

迷你库贝

<https://blog.csdn.net/Sindweller5530/article/details/116499761>

<https://github.com/luksa/kubernetes-in-action/tree/master/Chapter04>

- 自动命令文件类型yaml设置本地制表位=2 shiftwidth=2 expandtab自动缩进

代码块

```
1 minikube service ingress-nginx-controller -n ingress-nginx;
```

代码块

```
1 minikube start \
2     --vm-driver none \
3     --driver=docker \
```

```
4     --image-mirror-country='cn' \
5     --image-repository=registry.cn-hangzhou.aliyuncs.com/google_containers;
6
7 minikube status;
8 minikube dashboard;
9 minikube ssh;
10 eval $(minikube docker-env);
11
12 kubectl cluster-info;
13 kubectl get nodes;
14 kubectl describe node minikube
15
16 minikube image load kubia;
17 minikube ssh;
18 docker tag kubia luksa/kubia:1.0;
19 exit;
20 kubectl create deployment kubia --image=luksa/kubia:1.0;
21 kubectl get deployments;
22
23 kubectl get pods;
24 kubectl describe pod;
25
26 kubectl expose deployment kubia --type=LoadBalancer --port 8080;
27 kubectl get svc;
28
29 k get nods/pods/deployments/pods;
30
31 kubectl api-resources;
32
33 # If you use Minikube to create the cluster,
34 # no load balancer is created
35
36 minikube service kubia --url;
37 minikube ip;
38 kubectl scale deployment kubia --replicas=3;
39
40 kubectl get deploy;
41
42 kubectl get pods -o wide;
43
44 kubectl get nodes minikube -o yaml;
45
46 kubectl proxy;
47 http://127.0.0.1:8001/api/v1/nodes/minikube;
48
49 kubectl explain nodes;
50 kubectl explain node.spec; # --api-version
```

```
51 kubectl explain pods --recursive;
52
53 kubectl get ev -o wide;
54 kubectl get ev --field-selector type=Warning;
55
56 kubectl explain events;
57
58 kubectl run kubia --image=luksa/kubia:1.0 --dry-run=client -o yaml >
  mypod.yaml;
59
60 kubectl apply -f kubia.yaml;
61
62 k run kubia --image=luksa/kubia:1.0 --dry-run=client -o yaml;
63
64 k describe pod kubia; minikube ssh; curl 172.17.0.X:8080;
65
66 Some of the pod's fields aren't mutable, so the update may fail,
67 but you can always delete the pod and then create it again
68
69 kubectl get pod kubia -o wide;
70
71 kubectl run \
72   --image=ubuntu:latest -it |
73   --restart=Never |
74   --rm client-pod curl 172.17.0.7:8080;
75
76 kubectl port-forward kubia 8080:8080;
77 kubectl port-forward --help;
78 kubectl logs --timestamps=true -f kubia;
79   --since=2m
80   --since-time=2020-02-01T09:50:00Z
81   --tail=10
82   -p (--previous)
83
84 kubectl exec kubia -- ps aux;
85
86 kubectl attach;
87
88 kubectl port-forward kubia-ssl 8080 8443 9901;
89 curl https://example.com:8443 --resolve example.com:8443:127.0.0.1 -k;
90
91 kubectl delete po kubia-ssl --grace-period 10;
92   spec.terminationGracePeriodSeconds
93   metadata.deletionGracePeriodSeconds
94
95
96 kubectl logs kubia-ssl -c kubia;
```

```

97 kubectl logs kubia-ssl --all-containers;
98
99 kubectl exec -it kubia-ssl -c envoy -- bash;
100
101 k delete pod kubia --wait=false;
102
103 kubectl delete -f kubia-ssl.yaml;
104 kubectl delete -f kubia.yaml,kubia-ssl.yaml;
105 kubectl apply -f Chapter05/;
106 kubectl delete -f Chapter05/;
107     --recursive
108
109 kubectl delete po --all;
110
111 kubectl delete all --all;
112
113 kubectl delete events,all --all;
114
115 kubectl exec kubia-liveness -c envoy -- tail -f /var/log/envoy.admin.log;
116
117 kubectl logs kubia-liveness -c envoy -p;

```

代码块

```

1 # NodePort
2 kubectl cluster-info;
3 curl http://192.168.49.2:30123;
4
5 kubectl get nodes -o jsonpath='{.items[*].status.addresses}';
6 kubectl get nodes -o \
7 jsonpath='{.items[*].status.addresses[?(@.type=="InternalIP")].address}';
8
9 # http://kubernetes.io/docs/user-guide/jsonpath
10
11 minikube service kubia-nodeport;
12 # minikube service <service-name> [-n <namespace>]
13
14 externalTrafficPolicy: Local;
15
16 minikube addons list;
17 minikube addons enable ingress;
18 apiVersion: networking.k8s.io/v1;

```

代码块

```
1  apiVersion: networking.k8s.io/v1
2  kind: Ingress
3  metadata:
4    name: kuba
5  spec:
6    rules:
7      - host: kuba.example.com
8        http:
9          paths:
10           - path: /
11             pathType: Prefix
12             backend:
13               service:
14                 name: kuba-nodeport
15                 port:
16                   number: 80
```

代码块

```
1  docker build -t kuba .;
2  删除 DaemonSet 也会删除 pod;
3
4  # job 资源
5  kubectl get jobs;
6
7  # completions: 5
8  # parallelism: 2
9
10 # 有问题
11 kubectl scale job multi-completion-batch-job --replicas 3;
12
13 activeDeadlineSeconds
14 spec.backoffLimit=6 (default)
15
16 CronJob
17 分钟 小时 每月中的第几天 月 星期几(0是星期天)
18 startingDeadlineSeconds
19
20
21 创建 service 后, 需要
22 minikube ssh; # 登录
```

```
23 curl `kubectl get svc | awk '{print $3}'` # CLUSTER-IP
24
25 kubectl exec kuba-manual -- curl -s http://10.99.94.217; # 没有 -s, -- 是非必须
    得
26
27 sessionAffinity: ClientIP; # 不支持http cookie
28 kubectl exec kuba-manual -- env;
29 dnsPolicy;
30
31 backend-database.default.svc.cluster.local;
32
33 kubectl exec -it kuba-manual -- bash;
34 curl -s http://kuba.default.svc.cluster.local;
35 curl http://kuba;
36
37 cat /etc/resolv.conf;
38 ping kuba; # 无法ping通, 因为是虚拟IP, 只有与port结合才有意义
39 kubectl describe svc kuba | grep -i endpoint;
40 kubectl get endpoints kuba;
41 curl http://external-service/echo;
42
43 # kuba ExternalName
```

代码块

```
1 kubectl logs mypod --previous;
2 kubectl edit rc kuba;
3
4 export KUBE_EDITOR="/usr/bin/vim";
5 export EDITOR="/usr/bin/vim";
6 kubectl scale rc kuba --replicas=4;
7 kubectl delete rc kuba --cascade=false;
8
9 ReplicaSet 匹配缺少某个标签的 pod, 或包含某个标签名的 pod, 不管其值.
10
11 kubectl api-versions;
12 replicaset.apps/kuba created;
13 kubectl get rs;
14 kubectl delete rs kuba;
15
16 # 使用 DaemonSet 在每个节点上运行一个 pod
17 # 使用 DaemonSet 只在特定的节点运行 pod
18 # 节点可以被设置为不可调度, 但DaemonSet可以绕过它
```


代码块

```
1  apiVersion: apps/v1
2  kind: ReplicaSet
3  metadata:
4    name: kubia
5  spec:
6    replicas: 3
7    selector:
8      matchLabels:
9        app: kubia
10   template:
11     metadata:
12       labels:
13         app: kubia
14     spec:
15       containers:
16       - name: kubia
17         image: kubia
18         imagePullPolicy: Never
```

• 匹配表达式

代码块

```
1  selector:
2    matchExpressions:
3      - key: app
4        operator: In
5        values:
6      - kubia
```

• 操作员

- 在
- 不在
- 存在
- 不存在

```
1  apiVersion: v1
2  kind: Pod
3  metadata:
4    name: kubia-liveness
5  spec:
6    containers:
7    - image: kubia-unhealthy
8      imagePullPolicy: Never
9      name: kubia
10     livenessProbe:
11       httpGet:
12         path: /
13         port: 8080
14       initialDelaySeconds: 15
```

代码块

```
1  - pod 共享 network, UTS, IPC, PID(默认未开启)
2  - 文件系统隔离, 但是可以通过 Volume 共享文件目录
3  - localhost 可以与同一 pod 中的其它容器通信
4  kubectl get po kubia-82d24 -o yaml;
5  kubectl explain pods;
6  kubectl explain pod.spec;
7  kubectl create -f lindyang/kubia-manual.yaml;
8
9  kubectl describe pod kubia-manual | grep 172;
10 minikube ssh;
11 curl 172.17.0.7:8080;
12
13 kubectl logs kubia-manual -c kubia;
14
15 # 不通过 service 与 pod 通讯
16 kubectl port-forward kubia-manual 8888:8080;
17 curl http://127.0.0.1:8888;
18
19 kubectl get pods --show-labels;
20 kubectl get pod -L creation_method,env;
21
22 kubectl label po kubia-manual creation_method=manual --overwrite
23 # 删除标签, -
24 kubectl label po kubia-manual creation_method-
25
26 kubectl get po -l creation_method=manual;
27
28 kubectl get po -l env;
```

```
29
30 kubectl get po -l '!env';
31 env!=prod
32 'env in (prod,dev)'
33 'env notin (prod,dev)'
34
35 kubectl label node minikube gpu=false;
36
37 kubectl annotate pod kubia-manual mycompany.com/someannotation="foo bar";
38
39 kubectl get po --namespace kube-system;
40
41 kubectl get ns;
42
43 kubectl delete namespace custom-namespace;
44 kubectl create namespace custom-namespace;
45 kubectl create -f lindyang/kubia-manual.yaml -n custom-namespace;
46
47 命名空间不允许包含点号。
48
49 alias kcd='kubectl config set-context $(kubectl config current-context) --
namespace'
50
51 kubectl delete pod po1 po2;
52
53 kubectl delete po -l creation_method=manual;
54
55 kubectl delete ns custom-namespace;
56
57 kubectl delete po --all;
58
59 kubectl delete all --all;
```

- 命名空间

代码块

```
1 apiVersion: v1
2 kind: Namespace
3 metadata:
4   name: custom-namespace
```

```
1  apiVersion: v1
2  kind: Pod
3  metadata:
4    name: kuba-gpu
5  spec:
6    nodeSelector:
7      gpu: "true"
8    containers:
9      - name: kuba
10        image: kuba
11        imagePullPolicy: Never
```

代码块

```
1  minikube status;
2  minikube kubectl -- get pods -A;
3  alias kubectl="minikube kubectl --";
4  minikube kubectl cluster-info;
5  sudo apt install bash-completion;
6  source <(kubectl completion bash | sed s/kubectl/k/g);
7
8  kubectl run --image=kuba --port=8080 kuba;
9  kubectl get pod kuba -o yaml -n default;
10 kubectl describe pod kuba;
11
12 https://www.cnblogs.com/xiao2/p/16047455.html;
13 minikube image load kuba;
14 minikube image build -t <IMAGE_NAME> .;
15
16 kubectl get nodes;
17
18 kubectl apply -f lindyang/deployment.yaml;
19 kubectl delete -f lindyang/deployment.yaml;
20 kubectl port-forward kuba-868cd55b98-qzz79 8080:8080;
21 kubectl expose pod kuba-868cd55b98-qzz79 --type=LoadBalancer --name kuba-
http;
22 # minikube 不支持 LoadBalancer;
23 minikube service kuba-http;
24 kubectl get rc;
25 kubectl get services; # src
26
27 kubectl scale --replicas=3 -f lindyang/deployment.yaml;
```

代码块

```
1  apiVersion: v1
2  kind: ReplicationController
3  metadata:
4    name: kubia
5  spec:
6    replicas: 3
7    --- selector:
8    --- app: kubia
9    template:
10     metadata:
11       name: kubia
12       labels:
13         app: kubia
14     spec:
15       containers:
16         - name: kubia
17           image: kubia
18           imagePullPolicy: Never
19           ports:
20             - containerPort: 8080
21   ---
22  apiVersion: v1
23  kind: Service
24  metadata:
25    name: kubia
26  spec:
27    type: LoadBalancer
28    selector:
29      app: kubia
30    ports:
31      - port: 8080
32      targetPort: 8080
```

代码块

```
1  apiVersion: apps/v1
2  kind: Deployment
3  #kind: ReplicaSet
4  metadata:
5    name: kubia
6    labels:
```

```
7     name: kubia
8 spec:
9   replicas: 3
10  selector:
11    matchLabels:
12      name: kubia
13  template:
14    metadata:
15      labels:
16        name: kubia
17    spec:
18      containers:
19        - name: kubia
20          image: kubia
21          imagePullPolicy: Never
22          ports:
23            - containerPort: 8080
```

<https://github.com/AliyunContainerService/minikube/wiki>

<https://www.cnblogs.com/hukey/p/18061513>

<https://kubernetes.oss-cn-hangzhou.aliyuncs.com/minikube/releases/v1.20.0/minikube-linux-amd64>

代码块

```
1  https://github.com/kubernetes/minikube/releases/download/v1.24.0/minikube-
   linux-amd64;
2
3  minikube delete;
4  minikube delete --all --purge;
5
6
7  minikube start --force --driver=docker \
8  --image-mirror-country='cn' \
9  --registry-mirror=https://docker.mirrors.ustc.edu.cn \
10 --image-repository=registry.cn-hangzhou.aliyuncs.com/google_containers
11
12
13 minikube start \
14 --kubernetes-version=v1.23.8 \
15 --image-mirror-country='cn' \
16 --image-repository='registry.cn-hangzhou.aliyuncs.com/google_containers';
17
18
```

```

19 minikube start --image-mirror-country=cn;
20
21 minikube kubectl -- create clusterrolebinding system:anonymous \
22 --clusterrole=cluster-admin \
23 --user=system:anonymous;
24
25 kubectl proxy \
26 --port=8888 \
27 --address='192.168.1.20' \
28 --accept-hosts='^.*' >/dev/null 2>&1 &;
29
30
31 minikube kubectl -- get pods -A;
32 minikube kubectl -- logs kube-proxy-2z5gg -n kube-system;
33 sudo sysctl -w net.netfilter.nf_conntrack_max=524288;
34
35 minikube kubectl -- describe pods .. -n kubernetes-dashboard
36 # minikube start --disk-size="10g" \
37 #--image-mirror-country="cn" \
38 #--image-repository="registry.cn-hangzhou.aliyuncs.com/google_containers";

```

Dashbaord 失败

https://blog.csdn.net/jialiang_chen/article/details/140761362

代码块

```

1 minikube ssh;
2
3 docker pull registry.cn-hangzhou.aliyuncs.com/google_containers/metrics-
  scraper:v1.0.8;
4
5 docker tag registry.cn-hangzhou.aliyuncs.com/google_containers/metrics-
  scraper:v1.0.8 \
6 docker.io/kubernetesui/metrics-scraper:v1.0.8;
7
8 docker pull registry.cn-
  hangzhou.aliyuncs.com/google_containers/dashboard:v2.7.0;
9
10 docker tag registry.cn-
  hangzhou.aliyuncs.com/google_containers/dashboard:v2.7.0 \
11 kubernetesui/dashboard:v2.7.0;
12
13
14 registry.hub.docker.com/kubernetesui/dashboard:v2.1.0;
15 registry.hub.docker.com/kubernetesui/metrics-scraper:v1.0.4;

```

代码块

```
1  wget https://oss-cdn.nebula-graph.com.cn/package/3.8.0/nebula-graph-3.8.0.ubuntu2004.amd64.deb;
2  sudo /usr/local/nebula/scripts/nebula.service start all;
3
4  ~/Downloads/nebula-console-linux-amd64-v3.8.0 -addr 127.0.0.1 -port 9669 -u root -p dummy -t 3000
5  查看集群：查看集群状态
6  查看单个：SHOW HOSTS GRAPH、SHOW HOSTS STORAGE、SHOW HOSTS META;
7  ADD HOSTS 127.0.0.1:9779
8  心跳：heartbeat_interval_secs
9  GO语句采用的是walk类型路径；
10 MATCH、FIND PATH和GET SUBGRAPH语句采用的是trail类型路径；
11
12 $$      表示边的终点；
13 $^      表示边的起点；
14 $-      表示管道符前面的查询输出的结果集；
15
16 已写入但未构建索引”的数据重建索引，否则无法在MATCH和LOOKUP语句中返回这些数据；
17 // 重建索引确保能对已存在数据生效。
18 nebula> REBUILD TAG INDEX player_index_1;
19
20 create edge index follow_index_1 on follow(degree);
21 rebuild edge index follow_index_1;
22
```

Windows git bash设置字体大小

代码块

```
1  echo > ~/.minttyrc <<EOF
2  Font=Consolas
3  FontHeight=14
4  EOF
```

搜狗输入法

代码块

```
1  搜狗输入法4.0.1可以通过配置文件来实现中文时使用英文标点。
2  vim ~/.config/sogoupinyin/conf/env.ini
3
```


- 4 在该配置文件中添加一行
- 5 DefaultSymbol=0
- 6
- 7 然后重新启动输入法即可。

postgres

代码块

```
1 sudo -u postgres psql;
2 ALTER USER postgres WITH PASSWORD 'Mjolnir';
3 CREATE DATABASE mydatabase TEMPLATE template0 ENCODING 'UTF8';
4
5 select datid, datname,
6        pid,
7        usesysid,
8        username,
9        client_addr,
10       client_port,
11       query_start,
12       state
13       --,query
14 FROM pg_stat_activity;
```

代码块

```
1 ps --ppid 2 -p 2 -N -f;
2 iptables -I INPUT 2 -p tcp -m multiport --dport 80,5000 -j ACCEPT;
3
```

[cookie](<https://blog.csdn.net/p31201150/article/details/82179704/>)

代码块

```
1 proxy_cookie_path / "/; Secure; SameSite=Lax"; # 去掉 Secure
```

Jenkins

代码块

```
1 FROM ubuntu:16.04
2 MAINTAINER james@example.com
3 ENV REFRESHED_AT 2014-06-01
4
```

```
5 RUN apt-get update -qq && apt-get install -qqy curl apt-transport-https
   software-properties-common
6 #RUN curl -fsSL https://download.docker.com/linux/ubuntu/gpg | apt-key add -
7 COPY gpg /tmp/gpg
8 RUN cat /tmp/gpg | apt-key add -; rm /tmp/gpg
9 RUN apt-get clean && rm -rf /var/lib/apt/lists/*
10 #RUN echo deb https://apt.dockerproject.org/repo ubuntu-trusty main >
   /etc/apt/sources.list.d/docker.list
11 RUN add-apt-repository "deb [arch=amd64]
   https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
12 RUN apt-get update -qq && apt-get install -qqy --allow-unauthenticated
   iptables ca-certificates git-core
13 RUN apt-get install -qqy --allow-unauthenticated docker-ce
14 #RUN apt-get install -qqy --allow-unauthenticated openjdk-9-jdk
15 RUN add-apt-repository -y ppa:openjdk-r/ppa
16 RUN apt-get update -qq && apt-get install -qqy openjdk-17-jdk
17
18 ENV JENKINS_HOME /opt/jenkins/data
19 #ENV JENKINS_MIRROR http://mirrors.jenkins-ci.org
20
21 RUN mkdir -p $JENKINS_HOME/plugins
22 #RUN curl -sf -o /opt/jenkins/jenkins.war -L $JENKINS_MIRROR/war-
   stable/latest/jenkins.war
23 COPY jenkins.war /opt/jenkins/jenkins.war
24
25 #RUN for plugin in chucknorris greenballs scm-api git-client git ws-cleanup ;\
26 #   do curl -sf -o $JENKINS_HOME/plugins/${plugin}.hpi |
27 #       -L $JENKINS_MIRROR/plugins/${plugin}/latest/${plugin}.hpi ; done
28 COPY ./*.hpi $JENKINS_HOME/plugins/
29
30 ADD ./dockerjenkins.sh /usr/local/bin/dockerjenkins.sh
31 RUN sed -i 's/^docker daemon/dockerd/' /usr/local/bin/dockerjenkins.sh
32 RUN chmod +x /usr/local/bin/dockerjenkins.sh
33
34 #VOLUME /var/lib/docker
35
36 EXPOSE 8080
37
38 # docker daemon & => dockerd
39 ENTRYPOINT [ "/usr/local/bin/dockerjenkins.sh" ]
40
41
42 $ sudo mkdir -p /var/jenkins_home
43 $ cd /var/jenkins_home
44 $ sudo chown -R 1000 /var/jenkins_home
45
46 docker run --privileged -d \
```

```
47 -p 8080:8080 \
48 -v /var/jenkins_home:/opt/jenkins/data \
49 -v /var/run/docker.sock:/var/run/docker.sock \
50 --name jenkins \
51 lindyang/jenkins
52
53 sudo sed -i 's/https:/http:/'
54 /var/lib/docker/volumes/data/_data/hudson.model.UpdateCenter.xml;
55 # http://mirrors.tuna.tsinghua.edu.cn/jenkins/updates/update-center.json
56 # https://baijiahao.baidu.com/s?id=1742735186119625775&wfr=spider&for=pc
57 # https://www.cnblogs.com/yshc/p/10621224.html
58
59 https://updates.jenkins.io/download/plugins/skip-certificate-check/1.1/skip-
certificate-check.hpi
60
61 - Dashboard/Manage Jenkins/插件管理/advanced
62 - https://www.cnblogs.com/fengwenqian/p/13534786.html
63
64 http://updates.jenkins.io/update-center.json;
65 https://gitee.com/Errorcode500/docker-jenkins-sample.git
66
67 /opt/jenkins/data/jobs/${JOB_NAME}/workspace
68
69 cat > Dockerfile <<EOF
70 FROM ubuntu:16.04
71 RUN echo "while true; do date; echo $WORKSPACE; sleep 1; done" >
72 /usr/bin/run.sh
73 CMD ["/bin/bash", "/usr/bin/run.sh"]
74 EOF
75 docker build -t loop_test_$OS .
76 docker run -d --name loop_test.$OS loop_test_$OS
77 docker logs loop_test.$OS
78 docker stop loop_test.$OS
79 docker rm loop_test.$OS
80 docker rmi loop_test_$OS
```

TProv

代码块

```
1 ruby File.exists => File.exist
```

生成证书

代码块

```
1 openssl genpkey -algorithm RSA -out private.key -pkeyopt rsa_keygen_bits:2048;
2
3 openssl req -new -key private.key -out request.csr -subj \
4 "/C=CN/ST=Beijing/L=Beijing/O=WebRay/OU=IT/CN=cacheproxy.com/emailAddress=ridwa
rd@qq.com"
5
6 openssl x509 -req -days 36135 -in request.csr -signkey private.key -out
certificate.crt;
7
8 openssl pkey -in private.key -text -noout;
9 openssl req -in request.csr -text -noout;
10 openssl x509 -in certificate.crt -text -noout;
```

升级系统

代码块

```
1 上传包到 172.21.15.38
2 /var/log/webraydb/Dump/NJ/WebRay/1cf935508eb43c32a229826cf8c1be59
3
4 在要升级的系统上以 admin 执行
5 # patchup/patchall
6 patchup -u 1cf935508eb43c32a229826cf8c1be59 -p E9DCCB48 \
7 -i ftp://172.21.15.38:10021/fap-cacheproxy-1.0.0-T6-20250211205624-openEuler-
x86_64.img
```

科瑞托斯

代码块

```
1 kratos proto client api/helloworld/v1/demo.proto -- --go-
http_opt=omitempty=false;
```

Rbenv

代码块

```
1
2 # https://github.com/Tensho/docker-rbenv/blob/master/Dockerfile
3
4 FROM ubuntu:20.04
5 RUN apt-get -yqq update
6 RUN DEBIAN_FRONTEND=noninteractive TZ=Asia/Shanghai apt-get -y install tzdata
```

```
7 RUN apt-get -yqq install build-essential nodejs
8 RUN apt-get -yqq install git wget libffi-dev zlib1g-dev libyaml-dev
9 RUN rm /bin/sh && ln -s /bin/bash /bin/sh
10 #RUN wget -q -O ~/.rbenv/cache/ruby-3.4.1.tar.gz -c https://ftp.ruby-
    lang.org/pub/ruby/3.4/ruby-3.4.1.tar.gz;
11 RUN git clone --depth=1 https://github.com/rbenv/rbenv.git /root/.rbenv
12 RUN git clone --depth=1 https://github.com/rbenv/ruby-build.git
    /root/.rbenv/plugins/ruby-build
13 RUN /root/.rbenv/plugins/ruby-build/install.sh
14 ENV PATH /root/.rbenv/bin:/root/.rbenv/shims:$PATH
15 RUN echo 'eval "$(rbenv init -)"' >> /root/.bashrc
16 RUN mkdir -p /root/.rbenv/cache
17 COPY ruby-3.4.1.tar.gz /root/.rbenv/cache/
18 RUN rbenv install 3.4.1
19 RUN rbenv global 3.4.1
20 RUN gem sources --remove https://rubygems.org/ --add
    https://mirrors.tuna.tsinghua.edu.cn/rubygems/;
21 RUN gem update --system
22 RUN gem install ffi -v 1.17.1
23 #RUN gem install -s https://gems.ruby-china.com/ jekyll -v 2.5.3
24 RUN gem install jekyll -v 2.5.3
25 VOLUME /data
26 VOLUME /var/www/html
27 WORKDIR /data
28
29 ENTRYPOINT ["jekyll", "build", "--destination=/var/www/html"]
30
31 # gem install faraday-retry
```

Uwsgi

代码块

```
1 https://github.com/unbit/uwsgi/issues/2117;
2
3 ARG uwsgi_dir=/var/lib/gems/2.5.0/gems/uwsgi-2.0.20
4 RUN mkdir -p $uwsgi_dir/ext/uwsgi
5 RUN curl -o $uwsgi_dir/ext/uwsgi/install.sh
    https://raw.kkgithub.com/unbit/uwsgi/refs/heads/master/install.sh
6 RUN sed -i 's/curl /curl -k /' $uwsgi_dir/ext/uwsgi/install.sh
7 RUN apt-get -yqq install python3
8 RUN cd $uwsgi_dir/ext/uwsgi; bash install.sh ruby2
    $uwsgi_dir/ext/uwsgi/uwsgi.ruby
9 RUN mkdir -p $uwsgi_dir/bin; cp
    $uwsgi_dir/ext/uwsgi/uwsgi_latest_from_installer/bin/uwsgi $uwsgi_dir/bin/;
10 ENV PATH=$uwsgi_dir/bin:$PATH
```

```
11 RUN uwsgi --version;
```

《Docker实战》

代码块

```
1 https://wangwei1237.github.io/Kubernetes-in-Action-Second-Edition/  
2  
3 ip link set docker0 up;  
4 DOCKER_HOST;  
5 redis-server --protected-mode no;  
6 docker-compose logs/ps/stop/start/rm/kill;  
7  
8 curl --unix-socket /var/run/docker.sock http://docker/info  
9  
10 docker -H tcp://127.0.0.1:2375 images;
```

交叉编译

代码块

```
1 https://github.com/kekeqy/windows-hosted-x86_64-linux-musl-gcc-cross-compiler  
2 https://www.cnblogs.com/nvim/p/18631356  
3 https://juejin.cn/post/7168747781388140580  
4  
5
```