

# Troubleshooting for Podman

## Assumed Problem:

Using **RHEL 9 hosts** and the **latest version** of **Podman** available for RHEL 9, once a container image is downloaded/pulled, when trying to create/start the container in a disconnected environment, it fails with the error shown below:

```
Error: pasta failed with exit code 1:  
External interface not usable
```

**Note:** If `--network host` is added to the `podman run` command, then it works, however the expected result should work without adding `--network host`.

## TEST 1:

**Goal:** Using RHEL 9.5 and latest version of Podman available for RHEL 9 (podman version 5.2.2), check for the `podman run` command to work as expected.

**Environment 1:** RHEL 9.5 VM on Fedora 41 bare-metal host

Command run:

```
cat /etc/os-release
```

```
NAME="Red Hat Enterprise Linux"  
VERSION="9.5 (Plow)"  
ID="rhel"  
ID_LIKE="fedora"  
VERSION_ID="9.5"  
PLATFORM_ID="platform:el9"  
PRETTY_NAME="Red Hat Enterprise Linux 9.5 (Plow)"  
ANSI_COLOR="0;31"  
LOGO="fedora-logo-icon"  
CPE_NAME="cpe:/o:redhat:enterprise_linux:9::baseos"  
HOME_URL="https://www.redhat.com/"  
DOCUMENTATION_URL="https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/9"  
BUG_REPORT_URL="https://issues.redhat.com/"  
  
REDHAT_BUGZILLA_PRODUCT="Red Hat Enterprise Linux 9"  
REDHAT_BUGZILLA_PRODUCT_VERSION=9.5
```

```
REDHAT_SUPPORT_PRODUCT="Red Hat Enterprise Linux"
REDHAT_SUPPORT_PRODUCT_VERSION="9.5"
```

Podman version: 5.2.2

Verifying Podman version:

Command run:

```
podman -v
```

```
podman version 5.2.2
```

## Connected to internet.

Task: Download image from [quay.io](https://quay.io)

Commands run:

```
podman login quay.io
```

```
podman pull quay.io/offline/mimir:0.13.1-befields
```

Result:

Success

```
Trying to pull quay.io/offline/mimir:0.13.1-befields...
Getting image source signatures
Copying blob 561cdd730e74 done |
Copying blob a655c446e293 done |
Copying blob 52b1c022b0d3 done |
Copying blob 8d021ff1f67e done |
Copying blob 04f6c4d51708 done |
Copying blob 82cacf62721c done |
Copying blob ed239d48d455 done |
Copying blob 85059d9faab8 done |
Copying blob 00c1b31601d0 done |
Copying blob 8c2aa581a932 done |
Copying config 2832bc4e53 done |
Writing manifest to image destination
2832bc4e53ccc4a41fd278a6734f1379d299104bdd0c65c126892de73d6acf48
```

## Disconnected from internet.

Task: Create a container using pulled image.

Command run:

```
podman run --rm --name mimir -p 8080:8080 -d --env
'ACCESS_KEY=befields_V3fHMS8bWWP_6ja< redacted >' mimir:0.13.1-befields &&
podman logs -f mimir
```

Result:

Fail

```
Error: pasta failed with exit code 1:
External interface not usable
```

2nd attempt:

```
podman run --rm --name mimir -p 8080:8080 -d --env
'ACCESS_KEY=befields_V3fHMS8bWWP_6ja< redacted >' mimir:0.13.1-befields &&
podman logs -f mimir
```

Result:

Fail

```
Error: pasta failed with exit code 1:
External interface not usable
```

## Connected to internet.

Task: Create a container using pulled image.

Command run:

```
podman run --rm --name mimir -p 8080:8080 -d --env
'ACCESS_KEY=befields_V3fHMS8bWWP_6ja< redacted >' mimir:0.13.1-befields &&
podman logs -f mimir
```

Result:

Success

```
49e5171b3ad342c0c5717c28b3f116e12271390cbfbb3a541712dda172343ef1
decrypting solr data
data/
data/snapshot_metadata/
data/index/
data/index/write.lock
data/index/_4r.fdm
data/index/_4r.fdt
data/index/_5w.cfs
```

data/index/\_5w.cfe  
data/index/\_5w.si  
data/index/\_4r.fdx  
data/index/\_4r.nvd  
data/index/\_4r.nvm  
data/index/\_4r\_Lucene99\_0.doc  
data/index/\_4r\_Lucene99\_0.pos  
data/index/\_4r\_Lucene99\_0.tim  
data/index/\_4r\_Lucene99\_0.tip  
data/index/\_4r\_Lucene99\_0.tmd  
data/index/\_67.cfs  
data/index/\_67.cfe  
data/index/\_67.si  
data/index/\_4r\_Lucene90\_0.dvd  
data/index/\_4r\_Lucene90\_0.dvm  
data/index/\_4r.kdd  
data/index/\_4r.kdm  
data/index/\_4r.kdi  
data/index/\_4r.fnm  
data/index/\_4r.si  
data/index/\_95.fdm  
data/index/\_95.fdt  
data/index/\_9i.cfs  
data/index/\_9i.cfe  
data/index/\_9i.si  
data/index/\_9v.cfs  
data/index/\_9v.cfe  
data/index/\_9v.si  
data/index/\_ag.cfs  
data/index/\_ag.cfe  
data/index/\_ag.si  
data/index/\_95.fdx  
data/index/\_95.nvd  
data/index/\_95.nvm  
data/index/\_95\_Lucene99\_0.doc  
data/index/\_95\_Lucene99\_0.pos  
data/index/\_95\_Lucene99\_0.tim  
data/index/\_95\_Lucene99\_0.tip  
data/index/\_95\_Lucene99\_0.tmd  
data/index/\_aq.cfs

data/index/\_aq.cfe  
data/index/\_aq.si  
data/index/\_b2.cfs  
data/index/\_b2.cfe  
data/index/\_b2.si  
data/index/\_bw.cfs  
data/index/\_bw.cfe  
data/index/\_bw.si  
data/index/\_bj.cfs  
data/index/\_bj.cfe  
data/index/\_bj.si  
data/index/\_c3.cfs  
data/index/\_c3.cfe  
data/index/\_c3.si  
data/index/\_cq.fdm  
data/index/\_cq.fdt  
data/index/\_95\_Lucene90\_0.dvd  
data/index/\_95\_Lucene90\_0.dvm  
data/index/\_95.kdd  
data/index/\_95.kdm  
data/index/\_95.kdi  
data/index/\_95.fnm  
data/index/\_95.si  
data/index/\_cq.nvd  
data/index/\_cq.nvm  
data/index/\_cq\_Lucene90\_0.dvd  
data/index/\_cq\_Lucene90\_0.dvm  
data/index/\_cq.kdd  
data/index/\_cq.kdm  
data/index/\_cq.kdi  
data/index/\_cq.fdx  
data/index/\_cq\_Lucene99\_0.doc  
data/index/\_cq\_Lucene99\_0.pos  
data/index/\_cq\_Lucene99\_0.tim  
data/index/\_cq\_Lucene99\_0.tip  
data/index/\_cq\_Lucene99\_0.tmd  
data/index/\_cq.fnm  
data/index/\_cq.si  
data/index/\_d0.cfs  
data/index/\_d0.cfe

data/index/\_d0.si  
data/index/\_d7.fdm  
data/index/\_d7.fdt  
data/index/\_cj.cfs  
data/index/\_cj.cfe  
data/index/\_cj.si  
data/index/\_d7.nvd  
data/index/\_d7.nvm  
data/index/\_d7\_Lucene90\_0.dvd  
data/index/\_d7\_Lucene90\_0.dvm  
data/index/\_d7.kdd  
data/index/\_d7.kdm  
data/index/\_d7.kdi  
data/index/\_d7.fdx  
data/index/\_d7\_Lucene99\_0.doc  
data/index/\_d7\_Lucene99\_0.pos  
data/index/\_d7\_Lucene99\_0.tim  
data/index/\_d7\_Lucene99\_0.tip  
data/index/\_d7\_Lucene99\_0.tmd  
data/index/\_d7.fnm  
data/index/\_df.fdm  
data/index/\_df.fdt  
data/index/\_cp.cfs  
data/index/\_cp.cfe  
data/index/\_cp.si  
data/index/\_df.nvd  
data/index/\_df.nvm  
data/index/\_df\_Lucene90\_0.dvd  
data/index/\_df\_Lucene90\_0.dvm  
data/index/\_df.kdd  
data/index/\_df.kdm  
data/index/\_df.kdi  
data/index/\_df.fdx  
data/index/\_df\_Lucene99\_0.doc  
data/index/\_df\_Lucene99\_0.pos  
data/index/\_df\_Lucene99\_0.tim  
data/index/\_df\_Lucene99\_0.tip  
data/index/\_df\_Lucene99\_0.tmd  
data/index/\_df.fnm  
data/index/\_di.fdm

data/index/\_di.fdt  
data/index/\_db.cfs  
data/index/\_db.cfe  
data/index/\_db.si  
data/index/\_di.nvd  
data/index/\_di.nvm  
data/index/\_di\_Lucene90\_0.dvd  
data/index/\_di\_Lucene90\_0.dvm  
data/index/\_di.kdd  
data/index/\_di.kdm  
data/index/\_di.kdi  
data/index/\_di.fdx  
data/index/\_di\_Lucene99\_0.doc  
data/index/\_di\_Lucene99\_0.pos  
data/index/\_di\_Lucene99\_0.tim  
data/index/\_di\_Lucene99\_0.tip  
data/index/\_di\_Lucene99\_0.tmd  
data/index/\_dt.fdm  
data/index/\_dt.fdt  
data/index/\_di.fnm  
data/index/\_di.si  
data/index/\_dv.fdm  
data/index/\_dv.fdt  
data/index/\_dm.cfs  
data/index/\_dm.cfe  
data/index/\_dm.si  
data/index/\_dv.nvd  
data/index/\_dv.nvm  
data/index/\_dv\_Lucene90\_0.dvd  
data/index/\_dv\_Lucene90\_0.dvm  
data/index/\_dv.kdd  
data/index/\_dv.kdm  
data/index/\_dv.kdi  
data/index/\_dv.fdx  
data/index/\_dv\_Lucene99\_0.doc  
data/index/\_dv\_Lucene99\_0.pos  
data/index/\_dv\_Lucene99\_0.tim  
data/index/\_dv\_Lucene99\_0.tip  
data/index/\_dv\_Lucene99\_0.tmd  
data/index/\_dv.fnm

data/index/\_df.si  
data/index/\_d7.si  
data/index/\_dv.si  
data/index/\_ev.fdm  
data/index/\_ev.fdt  
data/index/\_ex.fdm  
data/index/\_ex.fdt  
data/index/\_ev.nvd  
data/index/\_ev.nvm  
data/index/\_ev\_Lucene90\_0.dvd  
data/index/\_ev\_Lucene90\_0.dvm  
data/index/\_ev.kdd  
data/index/\_ev.kdm  
data/index/\_ev.kdi  
data/index/\_ev.fdx  
data/index/\_ev\_Lucene99\_0.doc  
data/index/\_ev\_Lucene99\_0.pos  
data/index/\_ev\_Lucene99\_0.tim  
data/index/\_ev\_Lucene99\_0.tip  
data/index/\_ev\_Lucene99\_0.tmd  
data/index/\_ev.fnm  
data/index/\_ev.si  
data/index/\_eg.cfs  
data/index/\_eg.cfe  
data/index/\_eg.si  
data/index/\_f3.fdm  
data/index/\_f3.fdt  
data/index/\_ex.nvd  
data/index/\_f3.nvd  
data/index/\_ex.nvm  
data/index/\_f3.nvm  
data/index/\_f3\_Lucene90\_0.dvd  
data/index/\_f3\_Lucene90\_0.dvm  
data/index/\_ex\_Lucene90\_0.dvd  
data/index/\_ex\_Lucene90\_0.dvm  
data/index/\_f3.kdd  
data/index/\_f3.kdm  
data/index/\_f3.kdi  
data/index/\_f3.fdx  
data/index/\_ex.kdd



data/index/\_ex.kdm  
data/index/\_ex.kdi  
data/index/\_ex.fdx  
data/index/\_f3\_Lucene99\_0.doc  
data/index/\_f3\_Lucene99\_0.pos  
data/index/\_f3\_Lucene99\_0.tim  
data/index/\_f3\_Lucene99\_0.tip  
data/index/\_f3\_Lucene99\_0.tmd  
data/index/\_ex\_Lucene99\_0.doc  
data/index/\_ex\_Lucene99\_0.pos  
data/index/\_ex\_Lucene99\_0.tim  
data/index/\_ex\_Lucene99\_0.tip  
data/index/\_ex\_Lucene99\_0.tmd  
data/index/\_f3.fnm  
data/index/\_f3.si  
data/index/\_ex.fnm  
data/index/\_ex.si  
data/index/\_fa.fdm  
data/index/\_fa.fdt  
data/index/\_fb.fdm  
data/index/\_fb.fdt  
data/index/\_f1.cfs  
data/index/\_f1.cfe  
data/index/\_f1.si  
data/index/\_fb.nvd  
data/index/\_fb.nvm  
data/index/\_fb\_Lucene90\_0.dvd  
data/index/\_fb\_Lucene90\_0.dvm  
data/index/\_fa.nvd  
data/index/\_fa.nvm  
data/index/\_fa\_Lucene90\_0.dvd  
data/index/\_fa\_Lucene90\_0.dvm  
data/index/\_fb.kdd  
data/index/\_fb.kdm  
data/index/\_fb.kdi  
data/index/\_fb.fdx  
data/index/\_fa.kdd  
data/index/\_fa.kdm  
data/index/\_fa.kdi  
data/index/\_fa.fdx

data/index/\_fa\_Lucene99\_0.doc  
data/index/\_fa\_Lucene99\_0.pos  
data/index/\_fa\_Lucene99\_0.tim  
data/index/\_fa\_Lucene99\_0.tip  
data/index/\_fa\_Lucene99\_0.tmd  
data/index/\_fb\_Lucene99\_0.doc  
data/index/\_fb\_Lucene99\_0.pos  
data/index/\_fb\_Lucene99\_0.tim  
data/index/\_fb\_Lucene99\_0.tip  
data/index/\_fb\_Lucene99\_0.tmd  
data/index/\_fa.fnm  
data/index/\_fa.si  
data/index/\_fb.fnm  
data/index/\_fb.si  
data/index/\_fk.fdm  
data/index/\_fk.fdt  
data/index/\_fl.fdm  
data/index/\_fl.fdt  
data/index/\_fm.fdm  
data/index/\_fm.fdt  
data/index/\_fp.fdm  
data/index/\_fp.fdt  
data/index/\_f9.cfs  
data/index/\_f9.cfe  
data/index/\_f9.si  
data/index/\_fp.nvd  
data/index/\_fp.nvm  
data/index/\_fp\_Lucene90\_0.dvd  
data/index/\_fp\_Lucene90\_0.dvm  
data/index/\_fp.kdd  
data/index/\_fp.kdm  
data/index/\_fp.kdi  
data/index/\_fp.fdx  
data/index/\_fp\_Lucene99\_0.doc  
data/index/\_fp\_Lucene99\_0.pos  
data/index/\_fp\_Lucene99\_0.tim  
data/index/\_fp\_Lucene99\_0.tip  
data/index/\_fp\_Lucene99\_0.tmd  
data/index/\_fp.fnm  
data/index/\_fp.si

data/index/\_fk.nvd  
data/index/\_fk.nvm  
data/index/\_fk\_Lucene90\_0.dvd  
data/index/\_fk\_Lucene90\_0.dvm  
data/index/\_fk.kdd  
data/index/\_fk.kdm  
data/index/\_fk.kdi  
data/index/\_fk.fdx  
data/index/\_fk\_Lucene99\_0.doc  
data/index/\_fk\_Lucene99\_0.pos  
data/index/\_fk\_Lucene99\_0.tim  
data/index/\_fk\_Lucene99\_0.tip  
data/index/\_fk\_Lucene99\_0.tmd  
data/index/\_fk.fnm  
data/index/\_fk.si  
data/index/\_fm.nvd  
data/index/\_fm.nvm  
data/index/\_fm\_Lucene90\_0.dvd  
data/index/\_fm\_Lucene90\_0.dvm  
data/index/\_fm.kdd  
data/index/\_fm.kdm  
data/index/\_fm.kdi  
data/index/\_fm.fdx  
data/index/\_fm\_Lucene99\_0.doc  
data/index/\_fm\_Lucene99\_0.pos  
data/index/\_fm\_Lucene99\_0.tim  
data/index/\_fm\_Lucene99\_0.tip  
data/index/\_fm\_Lucene99\_0.tmd  
data/index/\_fm.fnm  
data/index/\_fm.si  
data/index/\_fl.nvd  
data/index/\_fl.nvm  
data/index/\_fl\_Lucene90\_0.dvd  
data/index/\_fl\_Lucene90\_0.dvm  
data/index/\_fl.kdd  
data/index/\_fl.kdm  
data/index/\_fl.kdi  
data/index/\_fl.fdx  
data/index/\_fl\_Lucene99\_0.doc  
data/index/\_fl\_Lucene99\_0.pos

data/index/\_fl\_Lucene99\_0.tim  
data/index/\_fl\_Lucene99\_0.tip  
data/index/\_fl\_Lucene99\_0.tmd  
data/index/\_fl.fnm  
data/index/\_fl.si  
data/index/\_fq.cfs  
data/index/\_fq.cfe  
data/index/\_fq.si  
data/index/\_fr.fdm  
data/index/\_fr.fdt  
data/index/\_fi.cfs  
data/index/\_fi.cfe  
data/index/\_fr.fdx  
data/index/\_fi.si  
data/index/\_fr.fnm  
data/index/\_fr\_Lucene99\_0.doc  
data/index/\_fr\_Lucene99\_0.tmd  
data/index/\_fr.si  
data/index/\_fr\_Lucene99\_0.tip  
data/index/\_fr\_Lucene99\_0.tim  
data/index/\_fr\_Lucene90\_0.dvm  
data/index/\_fr\_Lucene90\_0.dvd  
data/index/\_fr.kdm  
data/index/\_fr.kdd  
data/index/\_fr.kdi  
data/index/\_dt.fdx  
data/index/\_dt.nvd  
data/index/\_dt.nvm  
data/index/\_dt\_Lucene99\_0.doc  
data/index/\_dt\_Lucene99\_0.pos  
data/index/\_dt\_Lucene99\_0.tim  
data/index/\_dt\_Lucene99\_0.tip  
data/index/\_dt\_Lucene99\_0.tmd  
data/index/\_dt\_Lucene90\_0.dvd  
data/index/\_dt\_Lucene90\_0.dvm  
data/index/\_dt.kdd  
data/index/\_dt.kdm  
data/index/\_dt.kdi  
data/index/\_dt.fnm  
data/index/\_dt.si

```
data/index/segments_f
data/tlog/
data/tlog/tlog.00000000000000000012
Tue Nov 19 16:03:53 UTC 2024: Starting Solr server
=> sourcing 10-set-mpm.sh ...
=> sourcing 20-copy-config.sh ...
=> sourcing 40-ssl-certs.sh ...
---> Generating SSL key pair for httpd...
*** [WARN] *** Your Max Processes Limit is currently 14388.
It should be set to 65000 to avoid operational disruption.
If you no longer wish to see this warning, set SOLR_ULIMIT_CHECKS to
false in your profile or solr.in.sh
Java 21 detected. Enabled workaround for SOLR-16463
Java 21 detected. Incubating Panama Vector APIs have been enabled
[Tue Nov 19 16:03:54.296678 2024] [core:warn] [pid 8:tid 140698478763456]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 16:03:54.298118 2024] [so:warn] [pid 8:tid 140698478763456]
AH01574: module http2_module is already loaded, skipping
[Tue Nov 19 16:03:54.298144 2024] [core:warn] [pid 8:tid 140698478763456]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
Waiting up to 180 seconds to see Solr running on port 8983 [/] [Tue Nov
19 16:03:54.309842 2024] [ssl:warn] [pid 8:tid 140698478763456] AH01909:
${MIMIR_HTTPD_SERVER_NAME}:443:0 server certificate does NOT include an ID
which matches the server name
[Tue Nov 19 16:03:54.310065 2024] [[:notice] [pid 8:tid 140698478763456]
ModSecurity for Apache/2.9.6 (http://www.modsecurity.org/) configured.
[Tue Nov 19 16:03:54.310071 2024] [[:notice] [pid 8:tid 140698478763456]
ModSecurity: APR compiled version="1.6.3"; loaded version="1.6.3"
[Tue Nov 19 16:03:54.310073 2024] [[:notice] [pid 8:tid 140698478763456]
ModSecurity: PCRE compiled version="8.42 "; loaded version="8.42 2018-03-
20"
[Tue Nov 19 16:03:54.310076 2024] [[:notice] [pid 8:tid 140698478763456]
ModSecurity: LUA compiled version="Lua 5.3"
[Tue Nov 19 16:03:54.310078 2024] [[:notice] [pid 8:tid 140698478763456]
ModSecurity: YAJL compiled version="2.1.0"
[Tue Nov 19 16:03:54.310079 2024] [[:notice] [pid 8:tid 140698478763456]
ModSecurity: LIBXML compiled version="2.9.7"
[Tue Nov 19 16:03:54.310080 2024] [[:notice] [pid 8:tid 140698478763456]
ModSecurity: Status engine is currently disabled, enable it by set
SecStatusEngine to On.
```

```
[Tue Nov 19 16:03:54.332939 2024] [core:warn] [pid 8:tid 140698478763456]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 16:03:54.333244 2024] [so:warn] [pid 8:tid 140698478763456]
AH01574: module http2_module is already loaded, skipping
[Tue Nov 19 16:03:54.333260 2024] [core:warn] [pid 8:tid 140698478763456]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 16:03:54.385507 2024] [ssl:warn] [pid 8:tid 140698478763456]
AH01909: ${MIMIR_HTTPD_SERVER_NAME}:443:0 server certificate does NOT
include an ID which matches the server name
[Tue Nov 19 16:03:54.385776 2024] [lbmethod_heartbeat:notice] [pid 8:tid
140698478763456] AH02282: No slotmem from mod_heartbeat
[Tue Nov 19 16:03:54.393198 2024] [mpm_event:notice] [pid 8:tid
140698478763456] AH00489: Apache/2.4.37 (Red Hat Enterprise Linux)
OpenSSL/1.1.1k configured -- resuming normal operations
[Tue Nov 19 16:03:54.393214 2024] [core:notice] [pid 8:tid
140698478763456] AH00094: Command line: 'httpd -D FOREGROUND'
[/]
Started Solr server on port 8983 (pid=89). Happy searching!
```

## Disconnected from internet.

Task: Kill container and go disconnected again.

Command run:

```
podman kill mimir
```

Result:

Success

```
mimir
```

Verify no containers are running:

Command run:

```
podman ps
```

Result:

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	
NAMES						

Task: Create a container using pulled image again.

Command run:

```
podman run --rm --name mimir -p 8080:8080 -d --env
'ACCESS_KEY=befields_V3fHMS8bWWP_6ja< redacted >' mimir:0.13.1-befields &&
podman logs -f mimir
```

Result:

Fail

```
Error: pasta failed with exit code 1:
External interface not usable
```

Task: Create a container using pulled image but added `--network host` to command:

Command run:

```
podman run --rm --name mimir -p 8080:8080 --network host -d --env
'ACCESS_KEY=befields_V3fHMS8bWWP_6ja< redacted >' mimir:0.13.1-befields &&
podman logs -f mimir
```

Result:

Success

```
Port mappings have been discarded as one of the Host, Container, Pod, and
None network modes are in use
```

```
dd8845b7d95325e9db315fece6cabaf802547c3354cf25bde32eb8cd7f5561b3
```

```
decrypting solr data
```

```
data/
```

```
data/snapshot_metadata/
```

```
data/index/
```

```
data/index/write.lock
```

```
data/index/_4r.fdm
```

```
data/index/_4r.fdt
```

```
data/index/_5w.cfs
```

```
data/index/_5w.cfe
```

```
data/index/_5w.si
```

```
data/index/_4r.fdx
```

```
data/index/_4r.nvd
```

```
data/index/_4r.nvm
```

```
data/index/_4r_Lucene99_0.doc
```

```
data/index/_4r_Lucene99_0.pos
```

```
data/index/_4r_Lucene99_0.tim
```

```
data/index/_4r_Lucene99_0.tip
```

```
data/index/_4r_Lucene99_0.tmd
```

data/index/\_67.cfs  
data/index/\_67.cfe  
data/index/\_67.si  
data/index/\_4r\_Lucene90\_0.dvd  
data/index/\_4r\_Lucene90\_0.dvm  
data/index/\_4r.kdd  
data/index/\_4r.kdm  
data/index/\_4r.kdi  
data/index/\_4r.fnm  
data/index/\_4r.si  
data/index/\_95.fdm  
data/index/\_95.fdt  
data/index/\_9i.cfs  
data/index/\_9i.cfe  
data/index/\_9i.si  
data/index/\_9v.cfs  
data/index/\_9v.cfe  
data/index/\_9v.si  
data/index/\_ag.cfs  
data/index/\_ag.cfe  
data/index/\_ag.si  
data/index/\_95.fdx  
data/index/\_95.nvd  
data/index/\_95.nvm  
data/index/\_95\_Lucene99\_0.doc  
data/index/\_95\_Lucene99\_0.pos  
data/index/\_95\_Lucene99\_0.tim  
data/index/\_95\_Lucene99\_0.tip  
data/index/\_95\_Lucene99\_0.tmd  
data/index/\_aq.cfs  
data/index/\_aq.cfe  
data/index/\_aq.si  
data/index/\_b2.cfs  
data/index/\_b2.cfe  
data/index/\_b2.si  
data/index/\_bw.cfs  
data/index/\_bw.cfe  
data/index/\_bw.si  
data/index/\_bj.cfs  
data/index/\_bj.cfe



data/index/\_bj.si  
data/index/\_c3.cfs  
data/index/\_c3.cfe  
data/index/\_c3.si  
data/index/\_cq.fdm  
data/index/\_cq.fdt  
data/index/\_95\_Lucene90\_0.dvd  
data/index/\_95\_Lucene90\_0.dvm  
data/index/\_95.kdd  
data/index/\_95.kdm  
data/index/\_95.kdi  
data/index/\_95.fnm  
data/index/\_95.si  
data/index/\_cq.nvd  
data/index/\_cq.nvm  
data/index/\_cq\_Lucene90\_0.dvd  
data/index/\_cq\_Lucene90\_0.dvm  
data/index/\_cq.kdd  
data/index/\_cq.kdm  
data/index/\_cq.kdi  
data/index/\_cq.fdx  
data/index/\_cq\_Lucene99\_0.doc  
data/index/\_cq\_Lucene99\_0.pos  
data/index/\_cq\_Lucene99\_0.tim  
data/index/\_cq\_Lucene99\_0.tip  
data/index/\_cq\_Lucene99\_0.tmd  
data/index/\_cq.fnm  
data/index/\_cq.si  
data/index/\_d0.cfs  
data/index/\_d0.cfe  
data/index/\_d0.si  
data/index/\_d7.fdm  
data/index/\_d7.fdt  
data/index/\_cj.cfs  
data/index/\_cj.cfe  
data/index/\_cj.si  
data/index/\_d7.nvd  
data/index/\_d7.nvm  
data/index/\_d7\_Lucene90\_0.dvd  
data/index/\_d7\_Lucene90\_0.dvm

data/index/\_d7.kdd  
data/index/\_d7.kdm  
data/index/\_d7.kdi  
data/index/\_d7.fdx  
data/index/\_d7\_Lucene99\_0.doc  
data/index/\_d7\_Lucene99\_0.pos  
data/index/\_d7\_Lucene99\_0.tim  
data/index/\_d7\_Lucene99\_0.tip  
data/index/\_d7\_Lucene99\_0.tmd  
data/index/\_d7.fnm  
data/index/\_df.fdm  
data/index/\_df.fdt  
data/index/\_cp.cfs  
data/index/\_cp.cfe  
data/index/\_cp.si  
data/index/\_df.nvd  
data/index/\_df.nvm  
data/index/\_df\_Lucene90\_0.dvd  
data/index/\_df\_Lucene90\_0.dvm  
data/index/\_df.kdd  
data/index/\_df.kdm  
data/index/\_df.kdi  
data/index/\_df.fdx  
data/index/\_df\_Lucene99\_0.doc  
data/index/\_df\_Lucene99\_0.pos  
data/index/\_df\_Lucene99\_0.tim  
data/index/\_df\_Lucene99\_0.tip  
data/index/\_df\_Lucene99\_0.tmd  
data/index/\_df.fnm  
data/index/\_di.fdm  
data/index/\_di.fdt  
data/index/\_db.cfs  
data/index/\_db.cfe  
data/index/\_db.si  
data/index/\_di.nvd  
data/index/\_di.nvm  
data/index/\_di\_Lucene90\_0.dvd  
data/index/\_di\_Lucene90\_0.dvm  
data/index/\_di.kdd  
data/index/\_di.kdm

data/index/\_di.kdi  
data/index/\_di.fdx  
data/index/\_di\_Lucene99\_0.doc  
data/index/\_di\_Lucene99\_0.pos  
data/index/\_di\_Lucene99\_0.tim  
data/index/\_di\_Lucene99\_0.tip  
data/index/\_di\_Lucene99\_0.tmd  
data/index/\_dt.fdm  
data/index/\_dt.fdt  
data/index/\_di.fnm  
data/index/\_di.si  
data/index/\_dv.fdm  
data/index/\_dv.fdt  
data/index/\_dm.cfs  
data/index/\_dm.cfe  
data/index/\_dm.si  
data/index/\_dv.nvd  
data/index/\_dv.nvm  
data/index/\_dv\_Lucene90\_0.dvd  
data/index/\_dv\_Lucene90\_0.dvm  
data/index/\_dv.kdd  
data/index/\_dv.kdm  
data/index/\_dv.kdi  
data/index/\_dv.fdx  
data/index/\_dv\_Lucene99\_0.doc  
data/index/\_dv\_Lucene99\_0.pos  
data/index/\_dv\_Lucene99\_0.tim  
data/index/\_dv\_Lucene99\_0.tip  
data/index/\_dv\_Lucene99\_0.tmd  
data/index/\_dv.fnm  
data/index/\_df.si  
data/index/\_d7.si  
data/index/\_dv.si  
data/index/\_ev.fdm  
data/index/\_ev.fdt  
data/index/\_ex.fdm  
data/index/\_ex.fdt  
data/index/\_ev.nvd  
data/index/\_ev.nvm  
data/index/\_ev\_Lucene90\_0.dvd

data/index/\_ev\_Lucene90\_0.dvm  
data/index/\_ev.kdd  
data/index/\_ev.kdm  
data/index/\_ev.kdi  
data/index/\_ev.fdx  
data/index/\_ev\_Lucene99\_0.doc  
data/index/\_ev\_Lucene99\_0.pos  
data/index/\_ev\_Lucene99\_0.tim  
data/index/\_ev\_Lucene99\_0.tip  
data/index/\_ev\_Lucene99\_0.tmd  
data/index/\_ev.fnm  
data/index/\_ev.si  
data/index/\_eg.cfs  
data/index/\_eg.cfe  
data/index/\_eg.si  
data/index/\_f3.fdm  
data/index/\_f3.fdt  
data/index/\_ex.nvd  
data/index/\_f3.nvd  
data/index/\_ex.nvm  
data/index/\_f3.nvm  
data/index/\_f3\_Lucene90\_0.dvd  
data/index/\_f3\_Lucene90\_0.dvm  
data/index/\_ex\_Lucene90\_0.dvd  
data/index/\_ex\_Lucene90\_0.dvm  
data/index/\_f3.kdd  
data/index/\_f3.kdm  
data/index/\_f3.kdi  
data/index/\_f3.fdx  
data/index/\_ex.kdd  
data/index/\_ex.kdm  
data/index/\_ex.kdi  
data/index/\_ex.fdx  
data/index/\_f3\_Lucene99\_0.doc  
data/index/\_f3\_Lucene99\_0.pos  
data/index/\_f3\_Lucene99\_0.tim  
data/index/\_f3\_Lucene99\_0.tip  
data/index/\_f3\_Lucene99\_0.tmd  
data/index/\_ex\_Lucene99\_0.doc  
data/index/\_ex\_Lucene99\_0.pos

data/index/\_ex\_Lucene99\_0.tim  
data/index/\_ex\_Lucene99\_0.tip  
data/index/\_ex\_Lucene99\_0.tmd  
data/index/\_f3.fnm  
data/index/\_f3.si  
data/index/\_ex.fnm  
data/index/\_ex.si  
data/index/\_fa.fdm  
data/index/\_fa.fdt  
data/index/\_fb.fdm  
data/index/\_fb.fdt  
data/index/\_f1.cfs  
data/index/\_f1.cfe  
data/index/\_f1.si  
data/index/\_fb.nvd  
data/index/\_fb.nvm  
data/index/\_fb\_Lucene90\_0.dvd  
data/index/\_fb\_Lucene90\_0.dvm  
data/index/\_fa.nvd  
data/index/\_fa.nvm  
data/index/\_fa\_Lucene90\_0.dvd  
data/index/\_fa\_Lucene90\_0.dvm  
data/index/\_fb.kdd  
data/index/\_fb.kdm  
data/index/\_fb.kdi  
data/index/\_fb.fdx  
data/index/\_fa.kdd  
data/index/\_fa.kdm  
data/index/\_fa.kdi  
data/index/\_fa.fdx  
data/index/\_fa\_Lucene99\_0.doc  
data/index/\_fa\_Lucene99\_0.pos  
data/index/\_fa\_Lucene99\_0.tim  
data/index/\_fa\_Lucene99\_0.tip  
data/index/\_fa\_Lucene99\_0.tmd  
data/index/\_fb\_Lucene99\_0.doc  
data/index/\_fb\_Lucene99\_0.pos  
data/index/\_fb\_Lucene99\_0.tim  
data/index/\_fb\_Lucene99\_0.tip  
data/index/\_fb\_Lucene99\_0.tmd

data/index/\_fa.fnm  
data/index/\_fa.si  
data/index/\_fb.fnm  
data/index/\_fb.si  
data/index/\_fk.fdm  
data/index/\_fk.fdt  
data/index/\_fl.fdm  
data/index/\_fl.fdt  
data/index/\_fm.fdm  
data/index/\_fm.fdt  
data/index/\_fp.fdm  
data/index/\_fp.fdt  
data/index/\_f9.cfs  
data/index/\_f9.cfe  
data/index/\_f9.si  
data/index/\_fp.nvd  
data/index/\_fp.nvm  
data/index/\_fp\_Lucene90\_0.dvd  
data/index/\_fp\_Lucene90\_0.dvm  
data/index/\_fp.kdd  
data/index/\_fp.kdm  
data/index/\_fp.kdi  
data/index/\_fp.fdx  
data/index/\_fp\_Lucene99\_0.doc  
data/index/\_fp\_Lucene99\_0.pos  
data/index/\_fp\_Lucene99\_0.tim  
data/index/\_fp\_Lucene99\_0.tip  
data/index/\_fp\_Lucene99\_0.tmd  
data/index/\_fp.fnm  
data/index/\_fp.si  
data/index/\_fk.nvd  
data/index/\_fk.nvm  
data/index/\_fk\_Lucene90\_0.dvd  
data/index/\_fk\_Lucene90\_0.dvm  
data/index/\_fk.kdd  
data/index/\_fk.kdm  
data/index/\_fk.kdi  
data/index/\_fk.fdx  
data/index/\_fk\_Lucene99\_0.doc  
data/index/\_fk\_Lucene99\_0.pos

data/index/\_fk\_Lucene99\_0.tim  
data/index/\_fk\_Lucene99\_0.tip  
data/index/\_fk\_Lucene99\_0.tmd  
data/index/\_fk.fnm  
data/index/\_fk.si  
data/index/\_fm.nvd  
data/index/\_fm.nvm  
data/index/\_fm\_Lucene90\_0.dvd  
data/index/\_fm\_Lucene90\_0.dvm  
data/index/\_fm.kdd  
data/index/\_fm.kdm  
data/index/\_fm.kdi  
data/index/\_fm.fdx  
data/index/\_fm\_Lucene99\_0.doc  
data/index/\_fm\_Lucene99\_0.pos  
data/index/\_fm\_Lucene99\_0.tim  
data/index/\_fm\_Lucene99\_0.tip  
data/index/\_fm\_Lucene99\_0.tmd  
data/index/\_fm.fnm  
data/index/\_fm.si  
data/index/\_fl.nvd  
data/index/\_fl.nvm  
data/index/\_fl\_Lucene90\_0.dvd  
data/index/\_fl\_Lucene90\_0.dvm  
data/index/\_fl.kdd  
data/index/\_fl.kdm  
data/index/\_fl.kdi  
data/index/\_fl.fdx  
data/index/\_fl\_Lucene99\_0.doc  
data/index/\_fl\_Lucene99\_0.pos  
data/index/\_fl\_Lucene99\_0.tim  
data/index/\_fl\_Lucene99\_0.tip  
data/index/\_fl\_Lucene99\_0.tmd  
data/index/\_fl.fnm  
data/index/\_fl.si  
data/index/\_fq.cfs  
data/index/\_fq.cfe  
data/index/\_fq.si  
data/index/\_fr.fdm  
data/index/\_fr.fdt

```
data/index/_fi.cfs
data/index/_fi.cfe
data/index/_fr.fdx
data/index/_fi.si
data/index/_fr.fnm
data/index/_fr_Lucene99_0.doc
data/index/_fr_Lucene99_0.tmd
data/index/_fr.si
data/index/_fr_Lucene99_0.tip
data/index/_fr_Lucene99_0.tim
data/index/_fr_Lucene90_0.dvm
data/index/_fr_Lucene90_0.dvd
data/index/_fr.kdm
data/index/_fr.kdd
data/index/_fr.kdi
data/index/_dt.fdx
data/index/_dt.nvd
data/index/_dt.nvm
data/index/_dt_Lucene99_0.doc
data/index/_dt_Lucene99_0.pos
data/index/_dt_Lucene99_0.tim
data/index/_dt_Lucene99_0.tip
data/index/_dt_Lucene99_0.tmd
data/index/_dt_Lucene90_0.dvd
data/index/_dt_Lucene90_0.dvm
data/index/_dt.kdd
data/index/_dt.kdm
data/index/_dt.kdi
data/index/_dt.fnm
data/index/_dt.si
data/index/segments_f
data/tlog/
data/tlog/tlog.00000000000000000012
Tue Nov 19 16:15:06 UTC 2024: Starting Solr server
=> sourcing 10-set-mpm.sh ...
=> sourcing 20-copy-config.sh ...
=> sourcing 40-ssl-certs.sh ...
--> Generating SSL key pair for httpd...
*** [WARN] *** Your Max Processes Limit is currently 14388.
It should be set to 65000 to avoid operational disruption.
```



```
If you no longer wish to see this warning, set SOLR_ULIMIT_CHECKS to
false in your profile or solr.in.sh
Java 21 detected. Enabled workaround for SOLR-16463
Java 21 detected. Incubating Panama Vector APIs have been enabled
[Tue Nov 19 16:15:07.546451 2024] [core:warn] [pid 8:tid 140402684140992]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 16:15:07.547462 2024] [so:warn] [pid 8:tid 140402684140992]
AH01574: module http2_module is already loaded, skipping
[Tue Nov 19 16:15:07.547813 2024] [core:warn] [pid 8:tid 140402684140992]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
Waiting up to 180 seconds to see Solr running on port 8983 [] [Tue Nov
19 16:15:07.558942 2024] [ssl:warn] [pid 8:tid 140402684140992] AH01909:
${MIMIR_HTTPD_SERVER_NAME}:443:0 server certificate does NOT include an ID
which matches the server name
[Tue Nov 19 16:15:07.559180 2024] [:notice] [pid 8:tid 140402684140992]
ModSecurity for Apache/2.9.6 (http://www.modsecurity.org/) configured.
[Tue Nov 19 16:15:07.559182 2024] [:notice] [pid 8:tid 140402684140992]
ModSecurity: APR compiled version="1.6.3"; loaded version="1.6.3"
[Tue Nov 19 16:15:07.559184 2024] [:notice] [pid 8:tid 140402684140992]
ModSecurity: PCRE compiled version="8.42 "; loaded version="8.42 2018-03-
20"
[Tue Nov 19 16:15:07.559189 2024] [:notice] [pid 8:tid 140402684140992]
ModSecurity: LUA compiled version="Lua 5.3"
[Tue Nov 19 16:15:07.559190 2024] [:notice] [pid 8:tid 140402684140992]
ModSecurity: YAJL compiled version="2.1.0"
[Tue Nov 19 16:15:07.559191 2024] [:notice] [pid 8:tid 140402684140992]
ModSecurity: LIBXML compiled version="2.9.7"
[Tue Nov 19 16:15:07.559192 2024] [:notice] [pid 8:tid 140402684140992]
ModSecurity: Status engine is currently disabled, enable it by set
SecStatusEngine to On.
[/] [Tue Nov 19 16:15:07.619106 2024] [core:warn] [pid 8:tid
140402684140992] AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is
not defined
[Tue Nov 19 16:15:07.620131 2024] [so:warn] [pid 8:tid 140402684140992]
AH01574: module http2_module is already loaded, skipping
[Tue Nov 19 16:15:07.620252 2024] [core:warn] [pid 8:tid 140402684140992]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 16:15:07.675090 2024] [ssl:warn] [pid 8:tid 140402684140992]
AH01909: ${MIMIR_HTTPD_SERVER_NAME}:443:0 server certificate does NOT
include an ID which matches the server name
```

```
[Tue Nov 19 16:15:07.675349 2024] [lbmethod_heartbeat:notice] [pid 8:tid
140402684140992] AH02282: No slotmem from mod_heartmonitor
[Tue Nov 19 16:15:07.684680 2024] [mpm_event:notice] [pid 8:tid
140402684140992] AH00489: Apache/2.4.37 (Red Hat Enterprise Linux)
OpenSSL/1.1.1k configured -- resuming normal operations
[Tue Nov 19 16:15:07.685456 2024] [core:notice] [pid 8:tid
140402684140992] AH00094: Command line: 'httpd -D FOREGROUND'
[[]]
Started Solr server on port 8983 (pid=89). Happy searching!
```

Verify container is running:

Command run:

```
podman ps
```

Result:

Success

CONTAINER ID	IMAGE	COMMAND
dd8845b7d953	quay.io/offline/mimir:0.13.1-befields	/bin/sh -c ./star...
9 minutes ago	Up 9 minutes	mimir

## TEST 2:

**Goal:** Using a RHEL 9.4 vm and Podman version 4.9.4-rhel to check success of running `podman run` command to test if this version of Podman works as expected.

**Environment 2:** RHEL 9.4 VM on Fedora 41 bare-metal host

Command run:

```
cat /etc/os-release
```

```
NAME="Red Hat Enterprise Linux"
VERSION="9.4 (Plow)"
ID="rhel"
ID_LIKE="fedora"
VERSION_ID="9.4"
PLATFORM_ID="platform:el9"
PRETTY_NAME="Red Hat Enterprise Linux 9.4 (Plow)"
ANSI_COLOR="0;31"
LOGO="fedora-logo-icon"
CPE_NAME="cpe:/o:redhat:enterprise_linux:9::baseos"
HOME_URL="https://www.redhat.com/"
```

```
DOCUMENTATION_URL="https://access.redhat.com/documentation/en-  
us/red_hat_enterprise_linux/9"
```

```
BUG_REPORT_URL="https://issues.redhat.com/"
```

```
REDHAT_BUGZILLA_PRODUCT="Red Hat Enterprise Linux 9"
```

```
REDHAT_BUGZILLA_PRODUCT_VERSION=9.4
```

```
REDHAT_SUPPORT_PRODUCT="Red Hat Enterprise Linux"
```

```
REDHAT_SUPPORT_PRODUCT_VERSION="9.4"
```

Podman version: 4.9.4-rhel

Verifying Podman version:

Command run:

```
podman -v
```

```
podman version 4.9.4-rhel
```

## Connected to internet.

Task: Download image from [quay.io](https://quay.io)

Commands run:

```
podman login quay.io
```

```
podman pull quay.io/offline/mimir:0.13.1-befields
```

Result:

Success

```
Result: podman pulled the image successfully.  
Trying to pull quay.io/offline/mimir:0.13.1-befields...  
Getting image source signatures  
Copying blob 561cdd730e74 done |  
Copying blob 04f6c4d51708 done |  
Copying blob 52b1c022b0d3 done |  
Copying blob a655c446e293 done |  
Copying blob 8d021ff1f67e done |  
Copying blob 82cacf62721c done |  
Copying blob ed239d48d455 done |  
Copying blob 85059d9faab8 done |  
Copying blob 00c1b31601d0 done |  
Copying blob 8c2aa581a932 done |  
Copying config 2832bc4e53 done |
```

Writing manifest to image destination

2832bc4e53ccc4a41fd278a6734f1379d299104bdd0c65c126892de73d6acf48

Verify no containers are running:

Command run:

```
podman ps
```

Result:

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	
NAMES						

### Disconnected from internet.

Task: Create a container using pulled image.

Command run:

```
podman run --rm --name mimir -p 8080:8080 -d --env  
'ACCESS_KEY=befields_V3fHMS8bWWP_6ja< redacted >' mimir:0.13.1-befields &&  
podman logs -f mimir
```

Result:

Success

```
79097e2598424ba1582da7b32e213a97502e34778486df5bd0912380b8c5057e  
decrypting solr data  
data/  
data/snapshot_metadata/  
data/index/  
data/index/write.lock  
data/index/_4r.fdm  
data/index/_4r.fdt  
data/index/_5w.cfs  
data/index/_5w.cfe  
data/index/_5w.si  
data/index/_4r.fdx  
data/index/_4r.nvd  
data/index/_4r.nvm  
data/index/_4r_Lucene99_0.doc  
data/index/_4r_Lucene99_0.pos  
data/index/_4r_Lucene99_0.tim  
data/index/_4r_Lucene99_0.tip
```

data/index/\_4r\_Lucene99\_0.tmd  
data/index/\_67.cfs  
data/index/\_67.cfe  
data/index/\_67.si  
data/index/\_4r\_Lucene90\_0.dvd  
data/index/\_4r\_Lucene90\_0.dvm  
data/index/\_4r.kdd  
data/index/\_4r.kdm  
data/index/\_4r.kdi  
data/index/\_4r.fnm  
data/index/\_4r.si  
data/index/\_95.fdm  
data/index/\_95.fdt  
data/index/\_9i.cfs  
data/index/\_9i.cfe  
data/index/\_9i.si  
data/index/\_9v.cfs  
data/index/\_9v.cfe  
data/index/\_9v.si  
data/index/\_ag.cfs  
data/index/\_ag.cfe  
data/index/\_ag.si  
data/index/\_95.fdx  
data/index/\_95.nvd  
data/index/\_95.nvm  
data/index/\_95\_Lucene99\_0.doc  
data/index/\_95\_Lucene99\_0.pos  
data/index/\_95\_Lucene99\_0.tim  
data/index/\_95\_Lucene99\_0.tip  
data/index/\_95\_Lucene99\_0.tmd  
data/index/\_aq.cfs  
data/index/\_aq.cfe  
data/index/\_aq.si  
data/index/\_b2.cfs  
data/index/\_b2.cfe  
data/index/\_b2.si  
data/index/\_bw.cfs  
data/index/\_bw.cfe  
data/index/\_bw.si  
data/index/\_bj.cfs

data/index/\_bj.cfe  
data/index/\_bj.si  
data/index/\_c3.cfs  
data/index/\_c3.cfe  
data/index/\_c3.si  
data/index/\_cq.fdm  
data/index/\_cq.fdt  
data/index/\_95\_Lucene90\_0.dvd  
data/index/\_95\_Lucene90\_0.dvm  
data/index/\_95.kdd  
data/index/\_95.kdm  
data/index/\_95.kdi  
data/index/\_95.fnm  
data/index/\_95.si  
data/index/\_cq.nvd  
data/index/\_cq.nvm  
data/index/\_cq\_Lucene90\_0.dvd  
data/index/\_cq\_Lucene90\_0.dvm  
data/index/\_cq.kdd  
data/index/\_cq.kdm  
data/index/\_cq.kdi  
data/index/\_cq.fdx  
data/index/\_cq\_Lucene99\_0.doc  
data/index/\_cq\_Lucene99\_0.pos  
data/index/\_cq\_Lucene99\_0.tim  
data/index/\_cq\_Lucene99\_0.tip  
data/index/\_cq\_Lucene99\_0.tmd  
data/index/\_cq.fnm  
data/index/\_cq.si  
data/index/\_d0.cfs  
data/index/\_d0.cfe  
data/index/\_d0.si  
data/index/\_d7.fdm  
data/index/\_d7.fdt  
data/index/\_cj.cfs  
data/index/\_cj.cfe  
data/index/\_cj.si  
data/index/\_d7.nvd  
data/index/\_d7.nvm  
data/index/\_d7\_Lucene90\_0.dvd

data/index/\_d7\_Lucene90\_0.dvm  
data/index/\_d7.kdd  
data/index/\_d7.kdm  
data/index/\_d7.kdi  
data/index/\_d7.fdx  
data/index/\_d7\_Lucene99\_0.doc  
data/index/\_d7\_Lucene99\_0.pos  
data/index/\_d7\_Lucene99\_0.tim  
data/index/\_d7\_Lucene99\_0.tip  
data/index/\_d7\_Lucene99\_0.tmd  
data/index/\_d7.fnm  
data/index/\_df.fdm  
data/index/\_df.fdt  
data/index/\_cp.cfs  
data/index/\_cp.cfe  
data/index/\_cp.si  
data/index/\_df.nvd  
data/index/\_df.nvm  
data/index/\_df\_Lucene90\_0.dvd  
data/index/\_df\_Lucene90\_0.dvm  
data/index/\_df.kdd  
data/index/\_df.kdm  
data/index/\_df.kdi  
data/index/\_df.fdx  
data/index/\_df\_Lucene99\_0.doc  
data/index/\_df\_Lucene99\_0.pos  
data/index/\_df\_Lucene99\_0.tim  
data/index/\_df\_Lucene99\_0.tip  
data/index/\_df\_Lucene99\_0.tmd  
data/index/\_df.fnm  
data/index/\_di.fdm  
data/index/\_di.fdt  
data/index/\_db.cfs  
data/index/\_db.cfe  
data/index/\_db.si  
data/index/\_di.nvd  
data/index/\_di.nvm  
data/index/\_di\_Lucene90\_0.dvd  
data/index/\_di\_Lucene90\_0.dvm  
data/index/\_di.kdd

data/index/\_di.kdm  
data/index/\_di.kdi  
data/index/\_di.fdx  
data/index/\_di\_Lucene99\_0.doc  
data/index/\_di\_Lucene99\_0.pos  
data/index/\_di\_Lucene99\_0.tim  
data/index/\_di\_Lucene99\_0.tip  
data/index/\_di\_Lucene99\_0.tmd  
data/index/\_dt.fdm  
data/index/\_dt.fdt  
data/index/\_di.fnm  
data/index/\_di.si  
data/index/\_dv.fdm  
data/index/\_dv.fdt  
data/index/\_dm.cfs  
data/index/\_dm.cfe  
data/index/\_dm.si  
data/index/\_dv.nvd  
data/index/\_dv.nvm  
data/index/\_dv\_Lucene90\_0.dvd  
data/index/\_dv\_Lucene90\_0.dvm  
data/index/\_dv.kdd  
data/index/\_dv.kdm  
data/index/\_dv.kdi  
data/index/\_dv.fdx  
data/index/\_dv\_Lucene99\_0.doc  
data/index/\_dv\_Lucene99\_0.pos  
data/index/\_dv\_Lucene99\_0.tim  
data/index/\_dv\_Lucene99\_0.tip  
data/index/\_dv\_Lucene99\_0.tmd  
data/index/\_dv.fnm  
data/index/\_df.si  
data/index/\_d7.si  
data/index/\_dv.si  
data/index/\_ev.fdm  
data/index/\_ev.fdt  
data/index/\_ex.fdm  
data/index/\_ex.fdt  
data/index/\_ev.nvd  
data/index/\_ev.nvm



data/index/\_ev\_Lucene90\_0.dvd  
data/index/\_ev\_Lucene90\_0.dvm  
data/index/\_ev.kdd  
data/index/\_ev.kdm  
data/index/\_ev.kdi  
data/index/\_ev.fdx  
data/index/\_ev\_Lucene99\_0.doc  
data/index/\_ev\_Lucene99\_0.pos  
data/index/\_ev\_Lucene99\_0.tim  
data/index/\_ev\_Lucene99\_0.tip  
data/index/\_ev\_Lucene99\_0.tmd  
data/index/\_ev.fnm  
data/index/\_ev.si  
data/index/\_eg.cfs  
data/index/\_eg.cfe  
data/index/\_eg.si  
data/index/\_f3.fdm  
data/index/\_f3.fdt  
data/index/\_ex.nvd  
data/index/\_f3.nvd  
data/index/\_ex.nvm  
data/index/\_f3.nvm  
data/index/\_f3\_Lucene90\_0.dvd  
data/index/\_f3\_Lucene90\_0.dvm  
data/index/\_ex\_Lucene90\_0.dvd  
data/index/\_ex\_Lucene90\_0.dvm  
data/index/\_f3.kdd  
data/index/\_f3.kdm  
data/index/\_f3.kdi  
data/index/\_f3.fdx  
data/index/\_ex.kdd  
data/index/\_ex.kdm  
data/index/\_ex.kdi  
data/index/\_ex.fdx  
data/index/\_f3\_Lucene99\_0.doc  
data/index/\_f3\_Lucene99\_0.pos  
data/index/\_f3\_Lucene99\_0.tim  
data/index/\_f3\_Lucene99\_0.tip  
data/index/\_f3\_Lucene99\_0.tmd  
data/index/\_ex\_Lucene99\_0.doc

data/index/\_ex\_Lucene99\_0.pos  
data/index/\_ex\_Lucene99\_0.tim  
data/index/\_ex\_Lucene99\_0.tip  
data/index/\_ex\_Lucene99\_0.tmd  
data/index/\_f3.fnm  
data/index/\_f3.si  
data/index/\_ex.fnm  
data/index/\_ex.si  
data/index/\_fa.fdm  
data/index/\_fa.fdt  
data/index/\_fb.fdm  
data/index/\_fb.fdt  
data/index/\_f1.cfs  
data/index/\_f1.cfe  
data/index/\_f1.si  
data/index/\_fb.nvd  
data/index/\_fb.nvm  
data/index/\_fb\_Lucene90\_0.dvd  
data/index/\_fb\_Lucene90\_0.dvm  
data/index/\_fa.nvd  
data/index/\_fa.nvm  
data/index/\_fa\_Lucene90\_0.dvd  
data/index/\_fa\_Lucene90\_0.dvm  
data/index/\_fb.kdd  
data/index/\_fb.kdm  
data/index/\_fb.kdi  
data/index/\_fb.fdx  
data/index/\_fa.kdd  
data/index/\_fa.kdm  
data/index/\_fa.kdi  
data/index/\_fa.fdx  
data/index/\_fa\_Lucene99\_0.doc  
data/index/\_fa\_Lucene99\_0.pos  
data/index/\_fa\_Lucene99\_0.tim  
data/index/\_fa\_Lucene99\_0.tip  
data/index/\_fa\_Lucene99\_0.tmd  
data/index/\_fb\_Lucene99\_0.doc  
data/index/\_fb\_Lucene99\_0.pos  
data/index/\_fb\_Lucene99\_0.tim  
data/index/\_fb\_Lucene99\_0.tip

data/index/\_fb\_Lucene99\_0.tmd  
data/index/\_fa.fnm  
data/index/\_fa.si  
data/index/\_fb.fnm  
data/index/\_fb.si  
data/index/\_fk.fdm  
data/index/\_fk.fdt  
data/index/\_fl.fdm  
data/index/\_fl.fdt  
data/index/\_fm.fdm  
data/index/\_fm.fdt  
data/index/\_fp.fdm  
data/index/\_fp.fdt  
data/index/\_f9.cfs  
data/index/\_f9.cfe  
data/index/\_f9.si  
data/index/\_fp.nvd  
data/index/\_fp.nvm  
data/index/\_fp\_Lucene90\_0.dvd  
data/index/\_fp\_Lucene90\_0.dvm  
data/index/\_fp.kdd  
data/index/\_fp.kdm  
data/index/\_fp.kdi  
data/index/\_fp.fdx  
data/index/\_fp\_Lucene99\_0.doc  
data/index/\_fp\_Lucene99\_0.pos  
data/index/\_fp\_Lucene99\_0.tim  
data/index/\_fp\_Lucene99\_0.tip  
data/index/\_fp\_Lucene99\_0.tmd  
data/index/\_fp.fnm  
data/index/\_fp.si  
data/index/\_fk.nvd  
data/index/\_fk.nvm  
data/index/\_fk\_Lucene90\_0.dvd  
data/index/\_fk\_Lucene90\_0.dvm  
data/index/\_fk.kdd  
data/index/\_fk.kdm  
data/index/\_fk.kdi  
data/index/\_fk.fdx  
data/index/\_fk\_Lucene99\_0.doc

data/index/\_fk\_Lucene99\_0.pos  
data/index/\_fk\_Lucene99\_0.tim  
data/index/\_fk\_Lucene99\_0.tip  
data/index/\_fk\_Lucene99\_0.tmd  
data/index/\_fk.fnm  
data/index/\_fk.si  
data/index/\_fm.nvd  
data/index/\_fm.nvm  
data/index/\_fm\_Lucene90\_0.dvd  
data/index/\_fm\_Lucene90\_0.dvm  
data/index/\_fm.kdd  
data/index/\_fm.kdm  
data/index/\_fm.kdi  
data/index/\_fm.fdx  
data/index/\_fm\_Lucene99\_0.doc  
data/index/\_fm\_Lucene99\_0.pos  
data/index/\_fm\_Lucene99\_0.tim  
data/index/\_fm\_Lucene99\_0.tip  
data/index/\_fm\_Lucene99\_0.tmd  
data/index/\_fm.fnm  
data/index/\_fm.si  
data/index/\_fl.nvd  
data/index/\_fl.nvm  
data/index/\_fl\_Lucene90\_0.dvd  
data/index/\_fl\_Lucene90\_0.dvm  
data/index/\_fl.kdd  
data/index/\_fl.kdm  
data/index/\_fl.kdi  
data/index/\_fl.fdx  
data/index/\_fl\_Lucene99\_0.doc  
data/index/\_fl\_Lucene99\_0.pos  
data/index/\_fl\_Lucene99\_0.tim  
data/index/\_fl\_Lucene99\_0.tip  
data/index/\_fl\_Lucene99\_0.tmd  
data/index/\_fl.fnm  
data/index/\_fl.si  
data/index/\_fq.cfs  
data/index/\_fq.cfe  
data/index/\_fq.si  
data/index/\_fr.fdm

```
data/index/_fr.fdt
data/index/_fi.cfs
data/index/_fi.cfe
data/index/_fr.fdx
data/index/_fi.si
data/index/_fr.fnm
data/index/_fr_Lucene99_0.doc
data/index/_fr_Lucene99_0.tmd
data/index/_fr.si
data/index/_fr_Lucene99_0.tip
data/index/_fr_Lucene99_0.tim
data/index/_fr_Lucene90_0.dvm
data/index/_fr_Lucene90_0.dvd
data/index/_fr.kdm
data/index/_fr.kdd
data/index/_fr.kdi
data/index/_dt.fdx
data/index/_dt.nvd
data/index/_dt.nvm
data/index/_dt_Lucene99_0.doc
data/index/_dt_Lucene99_0.pos
data/index/_dt_Lucene99_0.tim
data/index/_dt_Lucene99_0.tip
data/index/_dt_Lucene99_0.tmd
data/index/_dt_Lucene90_0.dvd
data/index/_dt_Lucene90_0.dvm
data/index/_dt.kdd
data/index/_dt.kdm
data/index/_dt.kdi
data/index/_dt.fnm
data/index/_dt.si
data/index/segments_f
data/tlog/
data/tlog/tlog.00000000000000000012
Tue Nov 19 17:22:20 UTC 2024: Starting Solr server
=> sourcing 10-set-mpm.sh ...
=> sourcing 20-copy-config.sh ...
=> sourcing 40-ssl-certs.sh ...
--> Generating SSL key pair for httpd...
*** [WARN] *** Your Max Processes Limit is currently 14390.
```

```
It should be set to 65000 to avoid operational disruption.
If you no longer wish to see this warning, set SOLR_ULIMIT_CHECKS to
false in your profile or solr.in.sh
Java 21 detected. Enabled workaround for SOLR-16463
Java 21 detected. Incubating Panama Vector APIs have been enabled
[Tue Nov 19 17:22:21.193170 2024] [core:warn] [pid 8:tid 139952030293440]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 17:22:21.209204 2024] [so:warn] [pid 8:tid 139952030293440]
AH01574: module http2_module is already loaded, skipping
[Tue Nov 19 17:22:21.209373 2024] [core:warn] [pid 8:tid 139952030293440]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
Waiting up to 180 seconds to see Solr running on port 8983 [] [Tue Nov
19 17:22:21.241656 2024] [ssl:warn] [pid 8:tid 139952030293440] AH01909:
${MIMIR_HTTPD_SERVER_NAME}:443:0 server certificate does NOT include an ID
which matches the server name
[Tue Nov 19 17:22:21.241893 2024] [:notice] [pid 8:tid 139952030293440]
ModSecurity for Apache/2.9.6 (http://www.modsecurity.org/) configured.
[Tue Nov 19 17:22:21.241896 2024] [:notice] [pid 8:tid 139952030293440]
ModSecurity: APR compiled version="1.6.3"; loaded version="1.6.3"
[Tue Nov 19 17:22:21.241898 2024] [:notice] [pid 8:tid 139952030293440]
ModSecurity: PCRE compiled version="8.42 "; loaded version="8.42 2018-03-
20"
[Tue Nov 19 17:22:21.241903 2024] [:notice] [pid 8:tid 139952030293440]
ModSecurity: LUA compiled version="Lua 5.3"
[Tue Nov 19 17:22:21.241904 2024] [:notice] [pid 8:tid 139952030293440]
ModSecurity: YAJL compiled version="2.1.0"
[Tue Nov 19 17:22:21.241905 2024] [:notice] [pid 8:tid 139952030293440]
ModSecurity: LIBXML compiled version="2.9.7"
[Tue Nov 19 17:22:21.241907 2024] [:notice] [pid 8:tid 139952030293440]
ModSecurity: Status engine is currently disabled, enable it by set
SecStatusEngine to On.
[Tue Nov 19 17:22:21.314483 2024] [core:warn] [pid 8:tid 139952030293440]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 17:22:21.314810 2024] [so:warn] [pid 8:tid 139952030293440]
AH01574: module http2_module is already loaded, skipping
[Tue Nov 19 17:22:21.314823 2024] [core:warn] [pid 8:tid 139952030293440]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 17:22:21.380183 2024] [ssl:warn] [pid 8:tid 139952030293440]
AH01909: ${MIMIR_HTTPD_SERVER_NAME}:443:0 server certificate does NOT
include an ID which matches the server name
```

```
[Tue Nov 19 17:22:21.380517 2024] [lbmethod_heartbeat:notice] [pid 8:tid
139952030293440] AH02282: No slotmem from mod_heartbeat
[Tue Nov 19 17:22:21.402024 2024] [mpm_event:notice] [pid 8:tid
139952030293440] AH00489: Apache/2.4.37 (Red Hat Enterprise Linux)
OpenSSL/1.1.1k configured -- resuming normal operations
[Tue Nov 19 17:22:21.402039 2024] [core:notice] [pid 8:tid
139952030293440] AH00094: Command line: 'httpd -D FOREGROUND'
[/]
Started Solr server on port 8983 (pid=89). Happy searching!
```

Verify container is running.

Command run:

```
podman ps
```

Result:

CONTAINER ID	IMAGE	COMMAND
79097e259842	quay.io/offline/mimir:0.13.1-befields	/bin/sh -c ./star...
4 minutes ago	Up 4 minutes	0.0.0.0:8080->8080/tcp mimir

## Connected to internet.

Task: Upgrade Podman package to latest version on same RHEL 9.4 host to see if it is a Podman issue and not a RHEL issue using the latest version of Podman.

Command run:

```
sudo dnf update podman
```

Result:

Success

```
Updating Subscription Management repositories.

This system is registered with an entitlement server, but is not receiving
updates. You can use subscription-manager to assign subscriptions.

Extra Packages for Enterprise Linux 9 - x86_64
74 kB/s | 36 kB 00:00
Extra Packages for Enterprise Linux 9 - x86_64
14 MB/s | 23 MB 00:01
Red Hat Enterprise Linux 9 for x86_64 - BaseOS (RPMs)
```

```

                23 kB/s | 4.1 kB      00:00
Red Hat CodeReady Linux Builder for RHEL 9 x86_64 (RPMs)
                131 B/s | 4.5 kB      00:35
Red Hat CodeReady Linux Builder for RHEL 9 x86_64 (RPMs)
                342 kB/s | 10 MB       00:30
Red Hat Enterprise Linux 9 for x86_64 - AppStream (RPMs)
                20 kB/s | 4.5 kB      00:00
Red Hat Enterprise Linux 9 for x86_64 - AppStream (RPMs)
                1.5 MB/s | 46 MB       00:31
RPM Fusion for EL 9 - Free - Updates
                11 kB/s | 3.2 kB      00:00
RPM Fusion for EL 9 - Free - Updates
                348 kB/s | 219 kB      00:00
RPM Fusion for EL 9 - Nonfree - Updates
                21 kB/s | 6.1 kB      00:00
RPM Fusion for EL 9 - Nonfree - Updates
                146 kB/s | 89 kB       00:00

```

Dependencies resolved.

```

=====
=====

```

Package	Architecture	Version	Size
Repository			

```

=====
=====

```

Upgrading:

```

podman                x86_64                4:5.2.2-9.el9_5
  rhel-9-for-x86_64-appstream-rpms                16 M

```

Installing dependencies:

```

passt                x86_64                0^20240806.gee36266-2.el9
  rhel-9-for-x86_64-appstream-rpms                205 k
passt-selinux        noarch                0^20240806.gee36266-2.el9
  rhel-9-for-x86_64-appstream-rpms                32 k

```

Transaction Summary

```

=====
=====
Install 2 Packages
Upgrade 1 Package

Total download size: 16 M

```



Is this ok [y/N]: y

Downloading Packages:

(1/3): passt-selinux-0^20240806.gee36266-2.el9.noarch.rpm

135 kB/s | 32 kB 00:00

(2/3): passt-0^20240806.gee36266-2.el9.x86\_64.rpm

808 kB/s | 205 kB 00:00

(3/3): podman-5.2.2-9.el9\_5.x86\_64.rpm

20 MB/s | 16 MB 00:00

-----  
-----  
Total

20 MB/s | 16 MB 00:00

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

Preparing :

1/1

Installing : passt-0^20240806.gee36266-2.el9.x86\_64

1/4

Running scriptlet: passt-selinux-0^20240806.gee36266-2.el9.noarch

2/4

Installing : passt-selinux-0^20240806.gee36266-2.el9.noarch

2/4

Running scriptlet: passt-selinux-0^20240806.gee36266-2.el9.noarch

2/4

Upgrading : podman-4:5.2.2-9.el9\_5.x86\_64

3/4

Running scriptlet: podman-4:4.9.4-16.el9\_4.x86\_64

4/4

Cleanup : podman-4:4.9.4-16.el9\_4.x86\_64

4/4

Running scriptlet: passt-selinux-0^20240806.gee36266-2.el9.noarch

4/4

Running scriptlet: podman-4:4.9.4-16.el9\_4.x86\_64

4/4

Verifying : passt-0^20240806.gee36266-2.el9.x86\_64

1/4

Verifying : passt-selinux-0^20240806.gee36266-2.el9.noarch

2/4

Verifying : podman-4:5.2.2-9.el9\_5.x86\_64

3/4

Verifying : podman-4:4.9.4-16.el9\_4.x86\_64

4/4

Installed products updated.

Upgraded:

podman-4:5.2.2-9.el9\_5.x86\_64

Installed:

passt-0^20240806.gee36266-2.el9.x86\_64

passt-selinux-

0^20240806.gee36266-2.el9.noarch

Complete!

Verifying Podman version:

Command run:

```
podman -v
```

Result:

```
podman version 5.2.2
```

Task: Kill container and go disconnected again.

Command run:

```
podman kill mimir
```

Result:

Success

```
mimir
```

Verify no containers are running:

Command run:

```
podman ps
```

## Disconnected from internet.

Task: Create a container using pulled image.

Command run:

```
podman run --rm --name mimir -p 8080:8080 -d --env
'ACCESS_KEY=befields_V3fHMS8bWWP_6ja< redacted >' mimir:0.13.1-befields &&
podman logs -f mimir
```

Result:

Fail

```
Error: pasta failed with exit code 1:
External interface not usable
```

2nd attempt:

```
podman run --rm --name mimir -p 8080:8080 -d --env
'ACCESS_KEY=befields_V3fHMS8bWWP_6ja< redacted >' mimir:0.13.1-befields &&
podman logs -f mimir
```

Result:

Fail

```
Error: pasta failed with exit code 1:
External interface not usable
```

Task: Create a container using pulled image but added `--network host` to command:

Command run:

```
podman run --rm --name mimir -p 8080:8080 --network host -d --env
'ACCESS_KEY=befields_V3fHMS8bWWP_6ja< redacted >' mimir:0.13.1-befields &&
podman logs -f mimir
```

Result:

Success

```
Port mappings have been discarded as one of the Host, Container, Pod, and
None network modes are in use
b7d166837ae15ae0ee209b9b01875dbff257731ebeb60e577261c3266bf4575d
decrypting solr data
data/
data/snapshot_metadata/
data/index/
data/index/write.lock
data/index/_4r.fdm
data/index/_4r.fdt
```

data/index/\_5w.cfs  
data/index/\_5w.cfe  
data/index/\_5w.si  
data/index/\_4r.fdx  
data/index/\_4r.nvd  
data/index/\_4r.nvm  
data/index/\_4r\_Lucene99\_0.doc  
data/index/\_4r\_Lucene99\_0.pos  
data/index/\_4r\_Lucene99\_0.tim  
data/index/\_4r\_Lucene99\_0.tip  
data/index/\_4r\_Lucene99\_0.tmd  
data/index/\_67.cfs  
data/index/\_67.cfe  
data/index/\_67.si  
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data/index/\_9i.si  
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data/index/\_9v.cfe  
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data/index/\_95\_Lucene99\_0.tip  
data/index/\_95\_Lucene99\_0.tmd

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data/index/\_bw.si  
data/index/\_bj.cfs  
data/index/\_bj.cfe  
data/index/\_bj.si  
data/index/\_c3.cfs  
data/index/\_c3.cfe  
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data/index/\_cq.fdt  
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data/index/\_95\_Lucene90\_0.dvm  
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data/index/\_95.kdm  
data/index/\_95.kdi  
data/index/\_95.fnm  
data/index/\_95.si  
data/index/\_cq.nvd  
data/index/\_cq.nvm  
data/index/\_cq\_Lucene90\_0.dvd  
data/index/\_cq\_Lucene90\_0.dvm  
data/index/\_cq.kdd  
data/index/\_cq.kdm  
data/index/\_cq.kdi  
data/index/\_cq.fdx  
data/index/\_cq\_Lucene99\_0.doc  
data/index/\_cq\_Lucene99\_0.pos  
data/index/\_cq\_Lucene99\_0.tim  
data/index/\_cq\_Lucene99\_0.tip  
data/index/\_cq\_Lucene99\_0.tmd  
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data/index/\_d7.kdi  
data/index/\_d7.fdx  
data/index/\_d7\_Lucene99\_0.doc  
data/index/\_d7\_Lucene99\_0.pos  
data/index/\_d7\_Lucene99\_0.tim  
data/index/\_d7\_Lucene99\_0.tip  
data/index/\_d7\_Lucene99\_0.tmd  
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data/index/\_df.fdt  
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data/index/\_cp.cfe  
data/index/\_cp.si  
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data/index/\_df\_Lucene90\_0.dvd  
data/index/\_df\_Lucene90\_0.dvm  
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data/index/\_df.kdm  
data/index/\_df.kdi  
data/index/\_df.fdx  
data/index/\_df\_Lucene99\_0.doc  
data/index/\_df\_Lucene99\_0.pos  
data/index/\_df\_Lucene99\_0.tim  
data/index/\_df\_Lucene99\_0.tip  
data/index/\_df\_Lucene99\_0.tmd  
data/index/\_df.fnm

data/index/\_di.fdm  
data/index/\_di.fdt  
data/index/\_db.cfs  
data/index/\_db.cfe  
data/index/\_db.si  
data/index/\_di.nvd  
data/index/\_di.nvm  
data/index/\_di\_Lucene90\_0.dvd  
data/index/\_di\_Lucene90\_0.dvm  
data/index/\_di.kdd  
data/index/\_di.kdm  
data/index/\_di.kdi  
data/index/\_di.fdx  
data/index/\_di\_Lucene99\_0.doc  
data/index/\_di\_Lucene99\_0.pos  
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data/index/\_di.fnm  
data/index/\_di.si  
data/index/\_dv.fdm  
data/index/\_dv.fdt  
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data/index/\_dm.cfe  
data/index/\_dm.si  
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data/index/\_dv.nvm  
data/index/\_dv\_Lucene90\_0.dvd  
data/index/\_dv\_Lucene90\_0.dvm  
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data/index/\_dv.kdm  
data/index/\_dv.kdi  
data/index/\_dv.fdx  
data/index/\_dv\_Lucene99\_0.doc  
data/index/\_dv\_Lucene99\_0.pos  
data/index/\_dv\_Lucene99\_0.tim  
data/index/\_dv\_Lucene99\_0.tip  
data/index/\_dv\_Lucene99\_0.tmd

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data/index/\_dv.si  
data/index/\_ev.fdm  
data/index/\_ev.fdt  
data/index/\_ex.fdm  
data/index/\_ex.fdt  
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data/index/\_ev.nvm  
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data/index/\_ev\_Lucene90\_0.dvm  
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data/index/\_ev\_Lucene99\_0.pos  
data/index/\_ev\_Lucene99\_0.tim  
data/index/\_ev\_Lucene99\_0.tip  
data/index/\_ev\_Lucene99\_0.tmd  
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data/index/\_eg.cfe  
data/index/\_eg.si  
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data/index/\_f3.fdt  
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data/index/\_f3.nvd  
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data/index/\_f3.kdm  
data/index/\_f3.kdi  
data/index/\_f3.fdx



data/index/\_ex.kdd  
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data/index/\_ex.kdi  
data/index/\_ex.fdx  
data/index/\_f3\_Lucene99\_0.doc  
data/index/\_f3\_Lucene99\_0.pos  
data/index/\_f3\_Lucene99\_0.tim  
data/index/\_f3\_Lucene99\_0.tip  
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data/index/\_ex.si  
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data/index/\_fb.kdi  
data/index/\_fb.fdx  
data/index/\_fa.kdd  
data/index/\_fa.kdm  
data/index/\_fa.kdi

data/index/\_fa.fdx  
data/index/\_fa\_Lucene99\_0.doc  
data/index/\_fa\_Lucene99\_0.pos  
data/index/\_fa\_Lucene99\_0.tim  
data/index/\_fa\_Lucene99\_0.tip  
data/index/\_fa\_Lucene99\_0.tmd  
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data/index/\_fb\_Lucene99\_0.pos  
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data/index/\_fk.fdt  
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data/index/\_fl.fdt  
data/index/\_fm.fdm  
data/index/\_fm.fdt  
data/index/\_fp.fdm  
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data/index/\_f9.si  
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data/index/\_fk\_Lucene99\_0.doc  
data/index/\_fk\_Lucene99\_0.pos  
data/index/\_fk\_Lucene99\_0.tim  
data/index/\_fk\_Lucene99\_0.tip  
data/index/\_fk\_Lucene99\_0.tmd  
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data/index/\_fk.si  
data/index/\_fm.nvd  
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data/index/\_fm.kdm  
data/index/\_fm.kdi  
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data/index/\_fm\_Lucene99\_0.doc  
data/index/\_fm\_Lucene99\_0.pos  
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data/index/\_fm\_Lucene99\_0.tip  
data/index/\_fm\_Lucene99\_0.tmd  
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data/index/\_fm.si  
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data/index/\_fl.kdm  
data/index/\_fl.kdi  
data/index/\_fl.fdx  
data/index/\_fl\_Lucene99\_0.doc

data/index/\_fl\_Lucene99\_0.pos  
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data/index/\_fl\_Lucene99\_0.tip  
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data/index/\_fi.cfs  
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data/index/\_fr\_Lucene99\_0.tim  
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data/index/\_fr\_Lucene90\_0.dvd  
data/index/\_fr.kdm  
data/index/\_fr.kdd  
data/index/\_fr.kdi  
data/index/\_dt.fdx  
data/index/\_dt.nvd  
data/index/\_dt.nvm  
data/index/\_dt\_Lucene99\_0.doc  
data/index/\_dt\_Lucene99\_0.pos  
data/index/\_dt\_Lucene99\_0.tim  
data/index/\_dt\_Lucene99\_0.tip  
data/index/\_dt\_Lucene99\_0.tmd  
data/index/\_dt\_Lucene90\_0.dvd  
data/index/\_dt\_Lucene90\_0.dvm  
data/index/\_dt.kdd  
data/index/\_dt.kdm  
data/index/\_dt.kdi  
data/index/\_dt.fnm

```
data/index/_dt.si
data/index/segments_f
data/tlog/
data/tlog/tlog.00000000000000000012
Tue Nov 19 17:55:20 UTC 2024: Starting Solr server
=> sourcing 10-set-mpm.sh ...
=> sourcing 20-copy-config.sh ...
=> sourcing 40-ssl-certs.sh ...
--> Generating SSL key pair for httpd...
*** [WARN] *** Your Max Processes Limit is currently 14390.
It should be set to 65000 to avoid operational disruption.
If you no longer wish to see this warning, set SOLR_ULIMIT_CHECKS to
false in your profile or solr.in.sh
Java 21 detected. Enabled workaround for SOLR-16463
Java 21 detected. Incubating Panama Vector APIs have been enabled
[Tue Nov 19 17:55:21.624836 2024] [core:warn] [pid 8:tid 140400748584384]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 17:55:21.625741 2024] [so:warn] [pid 8:tid 140400748584384]
AH01574: module http2_module is already loaded, skipping
[Tue Nov 19 17:55:21.625830 2024] [core:warn] [pid 8:tid 140400748584384]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
Waiting up to 180 seconds to see Solr running on port 8983 [] [Tue Nov
19 17:55:21.637601 2024] [ssl:warn] [pid 8:tid 140400748584384] AH01909:
${MIMIR_HTTPD_SERVER_NAME}:443:0 server certificate does NOT include an ID
which matches the server name
[Tue Nov 19 17:55:21.637833 2024] [:notice] [pid 8:tid 140400748584384]
ModSecurity for Apache/2.9.6 (http://www.modsecurity.org/) configured.
[Tue Nov 19 17:55:21.637836 2024] [:notice] [pid 8:tid 140400748584384]
ModSecurity: APR compiled version="1.6.3"; loaded version="1.6.3"
[Tue Nov 19 17:55:21.637838 2024] [:notice] [pid 8:tid 140400748584384]
ModSecurity: PCRE compiled version="8.42 "; loaded version="8.42 2018-03-
20"
[Tue Nov 19 17:55:21.637842 2024] [:notice] [pid 8:tid 140400748584384]
ModSecurity: LUA compiled version="Lua 5.3"
[Tue Nov 19 17:55:21.637843 2024] [:notice] [pid 8:tid 140400748584384]
ModSecurity: YAJL compiled version="2.1.0"
[Tue Nov 19 17:55:21.637844 2024] [:notice] [pid 8:tid 140400748584384]
ModSecurity: LIBXML compiled version="2.9.7"
[Tue Nov 19 17:55:21.637845 2024] [:notice] [pid 8:tid 140400748584384]
ModSecurity: Status engine is currently disabled, enable it by set
```

SecStatusEngine to On.

```
[Tue Nov 19 17:55:21.675227 2024] [core:warn] [pid 8:tid 140400748584384]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 17:55:21.675694 2024] [so:warn] [pid 8:tid 140400748584384]
AH01574: module http2_module is already loaded, skipping
[Tue Nov 19 17:55:21.675785 2024] [core:warn] [pid 8:tid 140400748584384]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 17:55:21.728059 2024] [ssl:warn] [pid 8:tid 140400748584384]
AH01909: ${MIMIR_HTTPD_SERVER_NAME}:443:0 server certificate does NOT
include an ID which matches the server name
[Tue Nov 19 17:55:21.728458 2024] [lbmethod_heartbeat:notice] [pid 8:tid
140400748584384] AH02282: No slotmem from mod_heartbeat
[Tue Nov 19 17:55:21.735041 2024] [mpm_event:notice] [pid 8:tid
140400748584384] AH00489: Apache/2.4.37 (Red Hat Enterprise Linux)
OpenSSL/1.1.1k configured -- resuming normal operations
[Tue Nov 19 17:55:21.735056 2024] [core:notice] [pid 8:tid
140400748584384] AH00094: Command line: 'httpd -D FOREGROUND'
[[]]
Started Solr server on port 8983 (pid=89). Happy searching!
```

## TEST 3:

**Goal:** Perform same test directly on bare-metal Fedora 41 host (no VMs) to see if latest version of Podman (5.2.5) works as expected as compared to previous versions of Podman.

**Environment 3:** Fedora 41 bare-metal

Command run:

```
cat /etc/os-release
```

```
NAME="Fedora Linux"
VERSION="41 (Workstation Edition)"
RELEASE_TYPE=stable
ID=fedora
VERSION_ID=41
VERSION_CODENAME=""
PLATFORM_ID="platform:f41"
PRETTY_NAME="Fedora Linux 41 (Workstation Edition)"
ANSI_COLOR="0;38;2;60;110;180"
LOGO=fedora-logo-icon
CPE_NAME="cpe:/o:fedoraproject:fedora:41"
DEFAULT_HOSTNAME="fedora"
HOME_URL="https://fedoraproject.org/"
```

```
DOCUMENTATION_URL="https://docs.fedoraproject.org/en-US/fedora/f41/system-
administrators-guide/"
SUPPORT_URL="https://ask.fedoraproject.org/"
BUG_REPORT_URL="https://bugzilla.redhat.com/"
REDHAT_BUGZILLA_PRODUCT="Fedora"
REDHAT_BUGZILLA_PRODUCT_VERSION=41
REDHAT_SUPPORT_PRODUCT="Fedora"
REDHAT_SUPPORT_PRODUCT_VERSION=41
SUPPORT_END=2025-12-15
VARIANT="Workstation Edition"
VARIANT_ID=workstation
```

Podman version: 5.2.5 (version higher than previously tested 5.2.2)

Verifying Podman version:

Command run:

```
podman -v
```

```
podman version 5.2.5
```

### Connected to internet:

Task: Download image from [quay.io](https://quay.io)

Commands run:

```
podman login quay.io
```

```
podman pull quay.io/offline/mimir:0.13.1-befields
```

Result:

Success

```
Trying to pull quay.io/offline/mimir:0.13.1-befields...
Getting image source signatures
Copying blob 561cdd730e74 done |
Copying blob a655c446e293 done |
Copying blob 8d021ff1f67e done |
Copying blob 52b1c022b0d3 done |
Copying blob 82cacf62721c done |
Copying blob 04f6c4d51708 done |
Copying blob ed239d48d455 done |
Copying blob 85059d9faab8 done |
Copying blob 00c1b31601d0 done |
```

```
Copying blob 8c2aa581a932 done |
Copying config 2832bc4e53 done |
Writing manifest to image destination
2832bc4e53ccc4a41fd278a6734f1379d299104bdd0c65c126892de73d6acf48
```

## Disconnected from internet.

Task: Create a container using pulled image.

Command run:

```
podman run --rm --name mimir -p 8080:8080 -d --env
'ACCESS_KEY=befields_V3fHMS8bWWP_6ja< redacted >' mimir:0.13.1-befields &&
podman logs -f mimir
```

Result:

Success.

```
7e4932f5ca90f6c2302ec184901982539eb95b5af820e1ea1e2007b55c7e1d75
decrypting solr data
data/
data/snapshot_metadata/
data/index/
data/index/write.lock
data/index/_4r.fdm
data/index/_4r.fdt
data/index/_5w.cfs
data/index/_5w.cfe
data/index/_5w.si
data/index/_4r.fdx
data/index/_4r.nvd
data/index/_4r.nvm
data/index/_4r_Lucene99_0.doc
data/index/_4r_Lucene99_0.pos
data/index/_4r_Lucene99_0.tim
data/index/_4r_Lucene99_0.tip
data/index/_4r_Lucene99_0.tmd
data/index/_67.cfs
data/index/_67.cfe
data/index/_67.si
data/index/_4r_Lucene90_0.dvd
data/index/_4r_Lucene90_0.dvm
```



data/index/\_4r.kdd  
data/index/\_4r.kdm  
data/index/\_4r.kdi  
data/index/\_4r.fnm  
data/index/\_4r.si  
data/index/\_95.fdm  
data/index/\_95.fdt  
data/index/\_9i.cfs  
data/index/\_9i.cfe  
data/index/\_9i.si  
data/index/\_9v.cfs  
data/index/\_9v.cfe  
data/index/\_9v.si  
data/index/\_ag.cfs  
data/index/\_ag.cfe  
data/index/\_ag.si  
data/index/\_95.fdx  
data/index/\_95.nvd  
data/index/\_95.nvm  
data/index/\_95\_Lucene99\_0.doc  
data/index/\_95\_Lucene99\_0.pos  
data/index/\_95\_Lucene99\_0.tim  
data/index/\_95\_Lucene99\_0.tip  
data/index/\_95\_Lucene99\_0.tmd  
data/index/\_aq.cfs  
data/index/\_aq.cfe  
data/index/\_aq.si  
data/index/\_b2.cfs  
data/index/\_b2.cfe  
data/index/\_b2.si  
data/index/\_bw.cfs  
data/index/\_bw.cfe  
data/index/\_bw.si  
data/index/\_bj.cfs  
data/index/\_bj.cfe  
data/index/\_bj.si  
data/index/\_c3.cfs  
data/index/\_c3.cfe  
data/index/\_c3.si  
data/index/\_cq.fdm

data/index/\_cq.fdt  
data/index/\_95\_Lucene90\_0.dvd  
data/index/\_95\_Lucene90\_0.dvm  
data/index/\_95.kdd  
data/index/\_95.kdm  
data/index/\_95.kdi  
data/index/\_95.fnm  
data/index/\_95.si  
data/index/\_cq.nvd  
data/index/\_cq.nvm  
data/index/\_cq\_Lucene90\_0.dvd  
data/index/\_cq\_Lucene90\_0.dvm  
data/index/\_cq.kdd  
data/index/\_cq.kdm  
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data/tlog/
data/tlog/tlog.00000000000000000012
Tue Nov 19 18:02:29 UTC 2024: Starting Solr server
=> sourcing 10-set-mpm.sh ...
=> sourcing 20-copy-config.sh ...
=> sourcing 40-ssl-certs.sh ...
---> Generating SSL key pair for httpd...
Java 21 detected. Enabled workaround for SOLR-16463
Java 21 detected. Incubating Panama Vector APIs have been enabled
[Tue Nov 19 18:02:30.504029 2024] [core:warn] [pid 8:tid 140043199741376]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 18:02:30.504522 2024] [so:warn] [pid 8:tid 140043199741376]
AH01574: module http2_module is already loaded, skipping
[Tue Nov 19 18:02:30.504538 2024] [core:warn] [pid 8:tid 140043199741376]
```

```
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
Waiting up to 180 seconds to see Solr running on port 8983 [/] [Tue Nov
19 18:02:30.512247 2024] [ssl:warn] [pid 8:tid 140043199741376] AH01909:
${MIMIR_HTTPD_SERVER_NAME}:443:0 server certificate does NOT include an ID
which matches the server name
[Tue Nov 19 18:02:30.512529 2024] [:notice] [pid 8:tid 140043199741376]
ModSecurity for Apache/2.9.6 (http://www.modsecurity.org/) configured.
[Tue Nov 19 18:02:30.512533 2024] [:notice] [pid 8:tid 140043199741376]
ModSecurity: APR compiled version="1.6.3"; loaded version="1.6.3"
[Tue Nov 19 18:02:30.512535 2024] [:notice] [pid 8:tid 140043199741376]
ModSecurity: PCRE compiled version="8.42 "; loaded version="8.42 2018-03-
20"
[Tue Nov 19 18:02:30.512539 2024] [:notice] [pid 8:tid 140043199741376]
ModSecurity: LUA compiled version="Lua 5.3"
[Tue Nov 19 18:02:30.512540 2024] [:notice] [pid 8:tid 140043199741376]
ModSecurity: YAJL compiled version="2.1.0"
[Tue Nov 19 18:02:30.512541 2024] [:notice] [pid 8:tid 140043199741376]
ModSecurity: LIBXML compiled version="2.9.7"
[Tue Nov 19 18:02:30.512542 2024] [:notice] [pid 8:tid 140043199741376]
ModSecurity: Status engine is currently disabled, enable it by set
SecStatusEngine to On.
[Tue Nov 19 18:02:30.532589 2024] [core:warn] [pid 8:tid 140043199741376]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 18:02:30.532899 2024] [so:warn] [pid 8:tid 140043199741376]
AH01574: module http2_module is already loaded, skipping
[Tue Nov 19 18:02:30.532913 2024] [core:warn] [pid 8:tid 140043199741376]
AH00111: Config variable ${MIMIR_HTTPD_SERVER_NAME} is not defined
[Tue Nov 19 18:02:30.585420 2024] [ssl:warn] [pid 8:tid 140043199741376]
AH01909: ${MIMIR_HTTPD_SERVER_NAME}:443:0 server certificate does NOT
include an ID which matches the server name
[Tue Nov 19 18:02:30.585660 2024] [lbmethod_heartbeat:notice] [pid 8:tid
140043199741376] AH02282: No slotmem from mod_heartbeat
[Tue Nov 19 18:02:30.590776 2024] [mpm_event:notice] [pid 8:tid
140043199741376] AH00489: Apache/2.4.37 (Red Hat Enterprise Linux)
OpenSSL/1.1.1k configured -- resuming normal operations
[Tue Nov 19 18:02:30.590785 2024] [core:notice] [pid 8:tid
140043199741376] AH00094: Command line: 'httpd -D FOREGROUND'
[[]]
Started Solr server on port 8983 (pid=89). Happy searching!
```

## Conclusion:

Using RHEL 9.4 and Podman version 4.9.4-rhel seems to work as expected for running the podman run command as previously shown.

Using the latest version of Podman (version 5.2.2) available for RHEL on either a RHEL 9.4 or RHEL 9.5 host, Podman fails to start and run the container image without adding `--network host` to the `podman run` command. The `podman run` command should work without adding `--network host`.

When testing the latest version of Podman (version 5.2.5) on bare-metal Fedora 41, the expected result successfully completes when running the `podman run command`.

This may be an issue with only the latest version of Podman on RHEL hosts. In all testing environments, when connected to the internet, the `podman run` command works as expected. The issue is only in disconnected environments.