#### SINCHANA S

#### CC LAB

# Screenshot 1(a) - Successful installation of etcd

```
sinchana@LAPTOP-K061EF1I:~$ ETCD_VER=v3.5.12
GITHUB_URL=https://github.com/etcd-io/etcd/releases/download
DOWNLOAD_URL=${GITHUB_URL}/${ETCD_VER}/etcd-${ETCD_VER}-linux-amd64.tar.gz
# Download etcd binary
curl -L ${DOWNLOAD_URL} -o /tmp/etcd-${ETCD_VER}-linux-amd64.tar.gz
# Extract etcd binary
rm -rf /tmp/etcd-download-test && mkdir -p /tmp/etcd-download-test
tar xzvf /tmp/etcd-${ETCD_VER}-linux-amd64.tar.gz -C /tmp/etcd-download-test --strip-components=1
# Remove the downloaded tar.gz file
rm -f /tmp/etcd-${ETCD_VER}-linux-amd64.tar.gz
# Check etcd version
/tmp/etcd-download-test/etcd --version
# Check etcdctl version
/tmp/etcd-download-test/etcdctl version
# Check etcdutl version
//tmp/etcd-download-test/etcdutl version
% Total % Received % Xferd Average Speed
                                                                                                                                                        Time Current
Left Speed
                                                                                                                 Time
                                                                                                                                    Time
                                                                            Dload
                                                                                            Upload
                                                                                                                                   Spent
                                                                                                                 Total
100 19.3M 100 19.3M 0 0 1411k 0 etcd-v3.5.12-linux-amd64/README.md etcd-v3.5.12-linux-amd64/READMEv2-etcdctl.md etcd-v3.5.12-linux-amd64/etcdutl
                                                                                                      0 0:00:14 0:00:14 --:-- 1281k
etcd-v3.5.12-linux-amd64/etcdctl
etcd-v3.5.12-linux-amd64/Documentation/
etcd-v3.5.12-linux-amd64/Documentation/README.md
etcd-v3.5.12-linux-amd64/Documentation/dev-guide/
etcd-v3.5.12-linux-amd64/Documentation/dev-guide/
etcd-v3.5.12-linux-amd64/Documentation/dev-guide/apispec/
etcd-v3.5.12-linux-amd64/Documentation/dev-guide/apispec/swagger/
etcd-v3.5.12-linux-amd64/Documentation/dev-guide/apispec/swagger/v3election.swagger.json
etcd-v3.5.12-linux-amd64/Documentation/dev-guide/apispec/swagger/rpc.swagger.json
etcd-v3.5.12-linux-amd64/Documentation/dev-guide/apispec/swagger/v3lock.swagger.json
etcd-v3.5.12-linux-amd64/README-etcdutl.md
etcd-v3.5.12-linux-amd64/README-etcdctl.md
etcd-v3.5.12-linux-amd64/etcd
etcd Version: 3.5.12
etcd-Vs.5.12-Linux-amdo-
etcd Version: 3.5.12
Git SHA: e7b3bb6cc
Go Version: go1.20.13
Go OS/Arch: linux/amd64
etcdctl version: 3.5.12
API version: 3.5
etcdutl version: 3.5.12
API version: 3.5
  sinchana@LAPTOP-K061EF1I:~$
```

```
API version: 3.5
sinchana@LAPTOP-K061EF1I:~$ /tmp/etcd-download-test/etcd --version
etcd Version: 3.5.12
Git SHA: e7b3bb6cc
Go Version: go1.20.13
Go OS/Arch: linux/amd64
sinchana@LAPTOP-K061EF1I:~$ /tmp/etcd-download-test/etcdctl version
etcdctl version: 3.5.12
API version: 3.5
sinchana@LAPTOP-K061EF1I:~$ /tmp/etcd-download-test/etcdutl version
etcdutl version: 3.5.12
API version: 3.5.12
Sinchana@LAPTOP-K061EF1I:~$ sinchana@LAPTOP-K061EFII:~$ sinchana@LAPTOP-K061EFII:~$ sinchana@LAPTOP-K061EFII:~$ sin
```

## Screenshot 2(a)

```
sinchana@LAPTOP-R861EF11:-$ /tmp/etcd-download-test/etcd
{"level":Warn", "ts":"2024-04-08T18:06:22.520844+0530", "caller":"embed/config.go:679", "msg":"Running http and grpc server on single
port. This is not recommended for production."}
{"level":"warn", "ts":"2024-04-08T18:06:22.520992+0530", "caller":"etcdmain/etcd.go:73", "msg":"Running: ", "args":["/tmp/etcd-download-
test/etcd"]}
{"level":"warn", "ts":"2024-04-08T18:06:22.520992+0530", "caller":"etcdmain/etcd.go:105", "msg":"data-dir' was empty; using default",
    "data-dir":"default.etcd"}
{"level":"warn", "ts":"2024-04-08T18:06:22.521076+0530", "caller":"embed/config.go:679", "msg":"Running http and grpc server on single
    port. This is not recommended for production."}
{"level":"info", "ts":"2024-04-08T18:06:22.521096+0530", "caller":"embed/etcd.go:127", "msg":"configuring peer listeners", "listen-peer
    -urls":["http://localhost:2380"]}
{"level":"error", "ts":"2024-04-08T18:06:22.521096+0530", "caller":"embed/etcd.go:536", "msg":"creating peer listener failed", "error":
    "listen tep 127.0.1:2380: bind: address already in use", "stacktrace":"go.etcd.io/etcd/server/v3/embed.configurePeerListeners\n\tg
0.etcd.io/etcd/server/v3/embed/etcd.go:536\ngo.etcd.io/etcd/server/v3/embed.configurePeerListeners\n\tg
0.etcd.io/etcd/server/v3/embed/etcd.go:536\ngo.etcd.io/etcd/server/v3/embed.configurePeerListeners\n\tg
0.etcd.io/etcd/server/v3/embed/etcd.go:131
1\ngo.etcd.io/etcd/server/v3/embed/etcd.go:132
1\ngo.etcd.io/etcd/server/v3/etcdmain.main\n\tgo.etcd.io/etcd/server/v3/etcdmain/etcd.go:218\ngo.etcd.io/etcd/server/v3/etcdmain.main\n\tgo.etcd.io/etcd/server/v3/etcdmain.main\n\tgo.etcd.io/etcd/server/v3/etcdmain.main\n\tgo.etcd.io/etcd/server/v3/etcdmain/etcd.go:2050"}
{"level":'info", "ts":"2024-04-08T18:06:22.52172140530", "caller":"embed/etcd.go:31\nruntime.main\n\truntime/proc.go:250"}
{"level":'info", "ts":"2024-04-08T18:06:22.521726+0530", "caller":"embed/etcd.go:375", "msg":"closing etcd server", "name":"default", "da
ta-dir":"default.etcd",
```

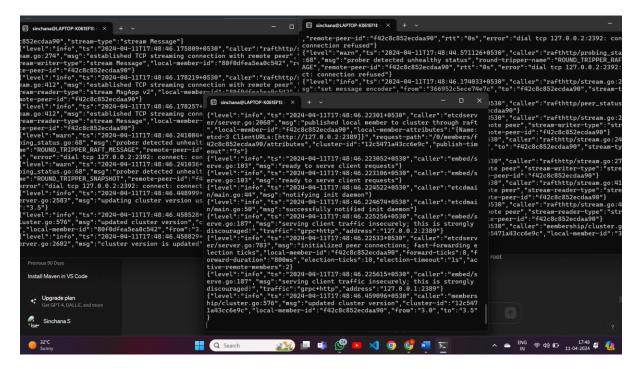
### Screenshot 2(b)

```
sinchana@LAPTOP-K061EF1I:/$ /tmp/etcd-download-test/etcdctl --endpoints=localhost:2379 put srn PES1UG21CS596
OK
sinchana@LAPTOP-K061EF1I:/$ /tmp/etcd-download-test/etcdctl --endpoints=localhost:2379 get srn
srn
PES1UG21CS596
sinchana@LAPTOP-K061EF1I:/$ /tmp/etcd-download-test/etcdctl --endpoints=localhost:2379 put srn PES1UG21CS596
OK
sinchana@LAPTOP-K061EF1I:/$ /tmp/etcd-download-test/etcdctl --endpoints=localhost:2379 get srn
srn
PES1UG21CS596
sinchana@LAPTOP-K061EF1I:/$ /tmp/etcd-download-test/etcdctl --endpoints=localhost:2379 get srn
srn
PUT
srn
PES1UG21CS596
DELETE
srn
```

```
sinchana@LAPTOP-K061EF1I:~$ /tmp/etcd-download-test/etcdctl --endpoints=localhost:2379 p
ut srn PES1UG21CS596 SINCHANAS
OK
sinchana@LAPTOP-K061EF1I:~$ /tmp/etcd-download-test/etcd del srn
{"level":"info","ts":"2024-04-08T18:18:46.063615+0530","caller":"etcdmain/etcd.go:73","m
sg":"Running: ","args":["/tmp/etcd-download-test/etcd","del","srn"]}
{"level":"warn","ts":"2024-04-08T18:18:46.063706+0530","caller":"etcdmain/etcd.go:75","m
sg":"failed to verify flags","error":"'del' is not a valid flag"}
sinchana@LAPTOP-K061EF1I:~$ etcdctl --endpoints=localhost:2379 del srn
No help topic for 'del'
sinchana@LAPTOP-K061EF1I:~$ /tmp/etcd-download-test/etcdctl del srn

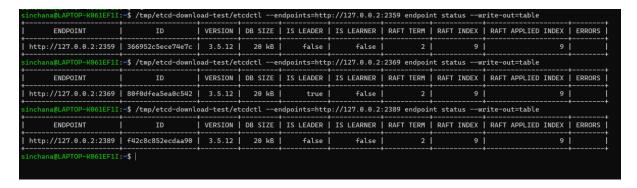
1
sinchana@LAPTOP-K061EF1I:~$ |
```

#### Screenshot 3(a)



# Screenshot 4(a)

the leader is the node with port number 2369



# Screenshot 4(b)

We can see that the current leader is node with port number 2359.

