

#### Download links:

1. VirtualBox: <https://www.virtualbox.org/>
2. Vagrant: <https://www.vagrantup.com/>

#### Instructions:

1. edb-deployment:
  - a. Installation: <https://github.com/EnterpriseDB/postgres-deployment/blob/master/README.md>
  - b. Extra setup steps for Windows: <https://github.com/EnterpriseDB/postgres-deployment/blob/master/README-WIN.md>

#### Other links:

1. TPC-C Results: [https://www.tpc.org/tpcc/results/tpcc\\_perf\\_results5.asp?resulttype=all](https://www.tpc.org/tpcc/results/tpcc_perf_results5.asp?resulttype=all)
2. edb repository signup: <https://www.enterprisedb.com/accounts/register>
3. edb benchmark execution examples: <https://github.com/EnterpriseDB/edb-benchmarks>
4. DBT-2 source code: <https://github.com/osldbt/dbt2>
5. Example DBT-2 report: <https://osldbt.github.io/dbt-reports/dbt2/3-tier/report.html>

#### Special notes:

1. Install edb-deployment dev code:

```
$ pip3 install https://github.com/EnterpriseDB/postgres-deployment/archive/refs/heads/master.zip
--upgrade
```

When using **virtualbox** or **baremetal** option (Note examples show **baremetal**, but applies to **virtualbox** too)

- Execute the specs sub-command:

```
$ edb-deployment baremetal specs > /tmp/specs.json
```

- Edit **/tmp/specs.json**:

```
{
  "ssh_user": "julien",
```

```
"pg_data": null,  
"pg_wal": null,  
"postgres_server_1": {  
  "name": "pg1",  
  "public_ip": "192.168.122.6",  
  "private_ip": "192.168.122.6"  
},  
"pem_server_1": {  
  "name": "pem1",  
  "public_ip": null,  
  "private_ip": null  
},  
"backup_server_1": {  
  "name": "backup1",  
  "public_ip": null,  
  "private_ip": null  
},  
"dbt2_client_0": {  
  "name": "dbt2client",  
  "public_ip": "192.168.122.55",  
  "private_ip": "192.168.122.55"  
},  
"dbt2_driver_0": {  
  "name": "dbt2driver",  
  "public_ip": "192.168.122.98",  
  "private_ip": "192.168.122.98"  
},  
"dbt2": true,  
"dbt2_client": {  
  "count": 1
```

```
},
"dbt2_driver": {
  "count": 1
}
}
```

- Execute the configure sub-command:

```
$ edb-deployment baremetal configure -a EDB-RA-1 -u "foo:bar" -t PG -v 14 -s /tmp/specs.bm.json dbt2
```

- Edit `~/edb-deployment/baremetal/dbt2/inventory.yml` (remove pem and barman system):

```
all:
  children:
    dbt2_client:
      hosts:
        dbt2_client_0:
          ansible_host: 192.168.122.55
          private_ip: 192.168.122.55
    dbt2_driver:
      hosts:
        dbt2_driver_0:
          ansible_host: 192.168.122.98
          private_ip: 192.168.122.98
    primary:
      hosts:
        pg1:
          ansible_host: 192.168.122.6
          dbt2: true
          private_ip: 192.168.122.6
```

- Edit `~/edb-deployment/baremetal/dbt2/playbook.yml` (remove barman and pem related roles)

```
---
- hosts: all
  name: Postgres deployment playbook for reference architecture EDB-RA-1
  become: yes
  gather_facts: yes
  any_errors_fatal: True
  max_fail_percentage: 0

  collections:
    - edb_devops.edb_postgres

  pre_tasks:
    - name:
      set_fact:
        enable_edb_repo: false

  roles:
    - role: setup_repo
      when: "'setup_repo' in lookup('edb_devops.edb_postgres.supported_roles', wantlist=True)"
    - role: install_dbserver
      when: "'install_dbserver' in lookup('edb_devops.edb_postgres.supported_roles', wantlist=True)"
    - role: init_dbserver
      when: "'init_dbserver' in lookup('edb_devops.edb_postgres.supported_roles', wantlist=True)"
    - role: setup_dbt2_driver
      when: "'setup_dbt2_driver' in lookup('edb_devops.edb_postgres.supported_roles', wantlist=True)"
    - role: setup_dbt2_client
      when: "'setup_dbt2_client' in lookup('edb_devops.edb_postgres.supported_roles', wantlist=True)"
    - role: setup_dbt2
      when: "'setup_dbt2' in lookup('edb_devops.edb_postgres.supported_roles', wantlist=True)"
    - role: autotuning
```

```
when: "'autotuning' in lookup('edb_devops.edb_postgres.supported_roles', wantlist=True)"
```

- Execute the deploy command:

```
$ edb-deployment baremetal deploy dbt2
```