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Sandpiper Development Setup (Linux Fedora)

Environment

Host OS: Windows 10

Target OS: Fedora31 (VirtualBox/Vagrant)

Steps

(1) Install VirtualBox 6.1.8 ("Windows hosts")

https://www.virtualbox.org/wiki/Downloads

(2) Install Vagrant 2.2.9 ("Windows 64-bit")

https://www.vagrantup.com/downloads.html

(3) Create a new Vagrant file for Fedora31

Open Windows PowerShell Terminal (PS prompts not shown)

cd \$HOME
mkdir Vagrant/Fedora31
cd Vagrant/Fedora31
vagrant init generic/fedora31
vagrant up

(4) Enable SSH

On Windows, Vagrant uses its own SSH client if one is not already installed (and found in the PATH).

Vagrant ssh-config Vagrant ssh

We're now in the virtual machine and have a command prompt

\$ [vagrant@fedora31 ~]\$

(5) Install Git (Fedora)

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```
$ git version # if a version shown, skip install
https://git-scm.com/downloads
$ sudo dnf install git
```

(6) Install Go (Fedora 32 is required for go1.14)

```
$ sudo dnf install -y golang
$ go version
go version go1.13.10 linux/amd64
$ export PATH=$PATH:$HOME/go/bin # add this to your $HOME/.bashrc
```

(7) Install PostgreSQL 12

```
$ sudo dnf upgrade -y
$ sudo reboot
$ sudo dnf install
https://download.postgresql.org/pub/repos/yum/reporpms/F-31-x86\_64/pgdg-
fedora-repo-latest.noarch.rpm
$ sudo dnf install postgresql12 postgresql12-server
$ sudo /usr/pgsql-12/bin/postgresql-12-setup initdb
$ sudo systemctl start postgresql-12
$ sudo systemctl enable postgresql-12
$ sudo systemctl status postgresql-12
$ sudo -u postgres psql -c "alter user postgres with password 'strongpass'"
$ sudo passwd postgres # enter the same strong password as above
$ sudo -u postgres psql -l # should list the databases
$ sudo egrep '^(local|host).*[^5]$' /var/lib/pgsql/12/data/pg_hba.conf
if this displays any rows, you will need to edit the "pg_hba.conf" file...
$ sudo vi /var/lib/pgsql/12/data/pg_hba.conf # you know "vi", right?
Change "ident" or "peer" to "md5" in these lines:
local
            all
                          all
                                                       md5
                          all
                                    127.0.0.1/32
                                                       md5
host
            all
$ sudo systemctl restart postgresql-12
```

(8) Install Taskfile.dev

```
$ cd $HOME
$ curl -sL https://taskfile.dev/install.sh | sh
```

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(9) Get Sandpiper from GitHub

```
$ cd $HOME
```

\$ git clone https://github.com/sandpiper-framework/sandpiper.git

(10) Compile Sandpiper

```
$ cd $HOME/sandpiper
```

- \$ go mod download
- \$ task build

(11) Create and Initialize Database

```
$ task init
```

\$ mv cmd/cli/api-primary.yaml cmd/api/config.yaml

(12) Test Server

```
$ task server
you should see `http server started on ...`
ctrl-c # to stop server
```

(13) Follow instructions in Testing Workbook

(14) Finally, be sure to close the vagrant VM

```
$ exit # to log out of linux
C:\> vagrant halt
```