

Last login: Fri Jan 6 09:59:06 on ttys000

The default interactive shell is now zsh.

To update your account to use zsh, please run ``chsh -s /bin/zsh``.

For more details, please visit <https://support.apple.com/kb/HT208050>.

swarnavs-MacBook-Air:~ swarnavpaul\$ vagrant

Usage: vagrant [options] <command> [<args>]

-h, --help Print this help.

Common commands:

autocomplete	manages autocomplete installation on host
box	manages boxes: installation, removal, etc.
cloud	manages everything related to Vagrant Cloud
destroy	stops and deletes all traces of the vagrant machine
global-status	outputs status Vagrant environments for this user
halt	stops the vagrant machine
help	shows the help for a subcommand
init	initializes a new Vagrant environment by creating a Vagrantfile
login	
package	packages a running vagrant environment into a box
plugin	manages plugins: install, uninstall, update, etc.
port	displays information about guest port mappings
powershell	connects to machine via powershell remoting
provision	provisions the vagrant machine
push	deploys code in this environment to a configured destination
rdp	connects to machine via RDP
reload	restarts vagrant machine, loads new Vagrantfile configuration
resume	resume a suspended vagrant machine
serve	start Vagrant server
snapshot	manages snapshots: saving, restoring, etc.
ssh	connects to machine via SSH
ssh-config	outputs OpenSSH valid configuration to connect to the machine
status	outputs status of the vagrant machine
suspend	suspends the machine
up	starts and provisions the vagrant environment
upload	upload to machine via communicator
validate	validates the Vagrantfile
version	prints current and latest Vagrant version
winrm	executes commands on a machine via WinRM
winrm-config	outputs WinRM configuration to connect to the machine

For help on any individual command run ``vagrant COMMAND -h``

Additional subcommands are available, but are either more advanced or not commonly used. To see all subcommands, run the command

``vagrant list-commands``.

--[no-]color Enable or disable color output

--machine-readable	Enable machine readable output
-v, --version	Display Vagrant version
--debug	Enable debug output
--timestamp	Enable timestamps on log output
--debug-timestamp	Enable debug output with timestamps
--no-tty	Enable non-interactive output

swarnavs-MacBook-Air:~ swarnavpaul\$

<https://gitlab.com/roybhaskar9/devops/raw/master/Lab/LaptopLab/Windows/version10/labfolders.sh>

-bash: <https://gitlab.com/roybhaskar9/devops/raw/master/Lab/LaptopLab/Windows/version10/labfolders.sh>: No such file or directory

swarnavs-MacBook-Air:~ swarnavpaul\$ curl -sSL

<https://gitlab.com/roybhaskar9/devops/raw/master/Lab/LaptopLab/Windows/version10/labfolders.sh> | bash

A `Vagrantfile` has been placed in this directory. You are now ready to `vagrant up` your first virtual environment! Please read the comments in the Vagrantfile as well as documentation on `vagrantup.com` for more information on using Vagrant.

Bringing machine 'default' up with 'virtualbox' provider...

==> **default: Box 'centos/7' could not be found. Attempting to find and install...**

default: Box Provider: virtualbox

default: Box Version: >= 0

==> **default: Loading metadata for box 'centos/7'**

default: URL: <https://vagrantcloud.com/centos/7>

==> **default: Adding box 'centos/7' (v2004.01) for provider: virtualbox**

default: Downloading:

<https://vagrantcloud.com/centos/boxes/7/versions/2004.01/providers/virtualbox.box>

Download redirected to host: cloud.centos.org

default: Calculating and comparing box checksum...

==> **default: Successfully added box 'centos/7' (v2004.01) for 'virtualbox'!**

==> **default: Importing base box 'centos/7'...**

==> **default: Matching MAC address for NAT networking...**

==> **default: Checking if box 'centos/7' version '2004.01' is up to date...**

==> **default: Setting the name of the VM: centos_default_1672982893594_86530**

==> **default: Clearing any previously set network interfaces...**

==> **default: Preparing network interfaces based on configuration...**

default: Adapter 1: nat

==> **default: Forwarding ports...**

default: 22 (guest) => 2222 (host) (adapter 1)

==> **default: Booting VM...**

==> **default: Waiting for machine to boot. This may take a few minutes...**

default: SSH address: 127.0.0.1:2222

default: SSH username: vagrant

default: SSH auth method: private key

default:

default: Vagrant insecure key detected. Vagrant will automatically replace

default: this with a newly generated keypair for better security.

default:
default: Inserting generated public key within guest...
default: Removing insecure key from the guest if it's present...
default: Key inserted! Disconnecting and reconnecting using new SSH key...
==> **default: Machine booted and ready!**
==> **default: Checking for guest additions in VM...**
default: No guest additions were detected on the base box for this VM! Guest
default: additions are required for forwarded ports, shared folders, host only
default: networking, and more. If SSH fails on this machine, please install
default: the guest additions and repackage the box to continue.
default:
default: This is not an error message; everything may continue to work properly,
default: in which case you may ignore this message.
==> **default: Rsyncing folder: /Users/swarnavpaul/devops/provision/vagrant/centos/ =>**
/vagrant
==> **default: Attempting graceful shutdown of VM...**
A `Vagrantfile` has been placed in this directory. You are now
ready to `vagrant up` your first virtual environment! Please read
the comments in the Vagrantfile as well as documentation on
`vagrantup.com` for more information on using Vagrant.
Bringing machine 'default' up with 'virtualbox' provider...
==> **default: Box 'ubuntu/xenial64' could not be found. Attempting to find and install...**
default: Box Provider: virtualbox
default: Box Version: >= 0
==> **default: Loading metadata for box 'ubuntu/xenial64'**
default: URL: <https://vagrantcloud.com/ubuntu/xenial64>
==> **default: Adding box 'ubuntu/xenial64' (v20211001.0.0) for provider: virtualbox**
default: Downloading:
<https://vagrantcloud.com/ubuntu/boxes/xenial64/versions/20211001.0.0/providers/virtualbox.box>
Download redirected to host: cloud-images.ubuntu.com
==> **default: Successfully added box 'ubuntu/xenial64' (v20211001.0.0) for 'virtualbox'!**
==> **default: Importing base box 'ubuntu/xenial64'...**
==> **default: Matching MAC address for NAT networking...**
==> **default: Checking if box 'ubuntu/xenial64' version '20211001.0.0' is up to date...**
==> **default: Setting the name of the VM: ubuntu_default_1672983017027_18048**
Vagrant is currently configured to create VirtualBox synced folders with
the `SharedFoldersEnableSymlinksCreate` option enabled. If the Vagrant
guest is not trusted, you may want to disable this option. For more
information on this option, please refer to the VirtualBox manual:

<https://www.virtualbox.org/manual/ch04.html#sharedfolders>

This option can be disabled globally with an environment variable:

VAGRANT_DISABLE_VBOXSYMLINKCREATE=1

or on a per folder basis within the Vagrantfile:

```
config.vm.synced_folder '/host/path', '/guest/path', SharedFoldersEnableSymlinksCreate: false
```

==> **default: Clearing any previously set network interfaces...**

==> **default: Preparing network interfaces based on configuration...**

default: Adapter 1: nat

==> **default: Forwarding ports...**

default: 22 (guest) => 2222 (host) (adapter 1)

==> **default: Running 'pre-boot' VM customizations...**

==> **default: Booting VM...**

==> **default: Waiting for machine to boot. This may take a few minutes...**

default: SSH address: 127.0.0.1:2222

default: SSH username: vagrant

default: SSH auth method: private key

default:

default: Vagrant insecure key detected. Vagrant will automatically replace

default: this with a newly generated keypair for better security.

default:

default: Inserting generated public key within guest...

default: Removing insecure key from the guest if it's present...

default: Key inserted! Disconnecting and reconnecting using new SSH key...

==> **default: Machine booted and ready!**

==> **default: Checking for guest additions in VM...**

default: The guest additions on this VM do not match the installed version of

default: VirtualBox! In most cases this is fine, but in rare cases it can

default: prevent things such as shared folders from working properly. If you see

default: shared folder errors, please make sure the guest additions within the

default: virtual machine match the version of VirtualBox you have installed on

default: your host and reload your VM.

default:

default: Guest Additions Version: 5.1.38

default: VirtualBox Version: 7.0

==> **default: Mounting shared folders...**

default: /vagrant => /Users/swarnavpaul/devops/provision/vagrant/ubuntu

==> **default: Attempting graceful shutdown of VM...**

Lab Setup Complete

```
swarnavs-MacBook-Air:~ swarnavpaul$ tree /Users/swarnavpaul/devops
```

```
-bash: tree: command not found
```

```
swarnavs-MacBook-Air:~ swarnavpaul$ cd /Users/swarnavpaul/devops
```

```
swarnavs-MacBook-Air:devops swarnavpaul$ ls
```

```
coding          provision  release
```

```
swarnavs-MacBook-Air:devops swarnavpaul$ brew
```

Example usage:

```
brew search TEXT|/REGEX/
```

```
brew info [FORMULA|CASK...]
```

```
brew install FORMULA|CASK...
```

```
brew update
```

```
brew upgrade [FORMULA|CASK...]  
brew uninstall FORMULA|CASK...  
brew list [FORMULA|CASK...]
```

Troubleshooting:

```
brew config  
brew doctor  
brew install --verbose --debug FORMULA|CASK
```

Contributing:

```
brew create URL [--no-fetch]  
brew edit [FORMULA|CASK...]
```

Further help:

```
brew commands  
brew help [COMMAND]  
man brew  
https://docs.brew.sh
```

swarnavs-MacBook-Air:devops swarnavpaul\$ brew install tree

Running `brew update --preinstall`...

==> **Homebrew is run entirely by unpaid volunteers. Please consider donating:**

<https://github.com/Homebrew/brew#donations>

==> **Auto-updated Homebrew!**

Updated 1 tap (homebrew/core).

==> **New Formulae**

adamstark-audiofile	lunar-date
agg	mabel
akku	maclaunch
ansible@6	macpine
antidote	mailsy
apophenia	manifest-tool
aribb24	mariadb@10.7
astro	mariadb@10.8
autocorrect	mariadb@10.9
aws-nuke	markdown-toc
aws2-wrap	markdownlint-cli2
aztfy	marksman
bazarr	mcap
bdftopcf	meek
berkeley-db@5	mesheryctl
bfgminer	metalang99
bindgen	metals
bore-cli	metview
bossa	mimirtool
brpc	mkp224o
btrfs-progs	mle
buf	mpfrcx

burst	mprocs
busted	mqttui
c	muon
c2rust	mxnet
camlp-streams	mycorrhiza
cargo-about	mypaint-brushes
cargo-bundle	naga-cli
cargo-crev	nali
cargo-deny	naml
cargo-depgraph	nap
cargo-nextest	nb
cargo-udeps	nemu
cargo-zigbuild	neovide
cbindgen	netcdf-cxx
cdsclient	netcdf-fortran
censys	nftables
cfonts	nmrpflash
chain-bench	node@18
circumflex	nuraft
clitest	oak
cloudflare-wrangler2	oauth2c
cloudprober	objconv
clusterawsadm	ocl-icd
cmctl	octosql
cntb	ohdear-cli
cocogitto	onlykey-agent
code-cli	open62541
cog	opencl-headers
commitlint	opencl-icd-loader
conda-zsh-completion	opentelemetry-cpp
corrosion	openvi
countdown	osv-scanner
cpp-httpplib	ouch
cpuid	pacmc
cql-proxy	page
create-api	pandemics
crytic-compile	pax
curlcpp	pbzx
cxgo	pdf-diff
czg	pferd
d2	pg_cron
dart-sdk	pg_partman
datatype99	pget
dbml-cli	pgsync
distrobox	php@8.1
docker-buildx	phrase-cli
doggo	pinocchio
dooit	pint

dotdrop	pipe-rename
dotnet@6	pixie
dronedb	pixiewps
dsda-doom	pkcs11-tools
dtrx	pluto
dufs	poac
dump1090-mutability	pocl
dumpling	podman-compose
dunamai	pomsky
dura	popeye
dynein	portablegl
echidna	postgresql@15
edencommon	protobuf@3
editorconfig-checker	protolint
eget	prowler
emqx	proxsuite
enex2notion	prql-compiler
enpass-cli	prp
envd	psysh
erigon	purescript-language-server
erlang@24	pymol
evernote-backup	pymupdf
evtx	python-build
fastfetch	python-gdbm@3.11
fastnetmon	python-lsp-server
felinks	python-tk@3.11
fend	python-typing-extensions
ferium	python@3.11
fgbio	pyyaml
flix	qbe
flock	qsv
fonts-encodings	quilt-installer
fortls	railway
fred	rdb
fuego-firestore	redis@6.2
gator	release-it
gaze	req
gcc@11	retdec
gcm	ripsecrets
gdrive-downloader	rnw
gebug	rome
gf	ruby@3.1
ghc@8.10	ruff
ghc@9.2	rush-parallel
ghorg	sambamba
git-codereview	sapling
git-delete-merged-branches	scala@2.13
git-machete	schemathesis

git-sync	sdl2_sound
git-workspace	secp256k1
glibc@2.13	seven-kingdoms
glider	sftpgo
gnustep-base	sgn
go-camo	sgr
go-task	shaderc
go@1.18	scaffold@1.39
gobackup	skeema
goctl	slither-analyzer
gokart	smap
got	snakefmt
grammarly-languageserver	snapcast
grantlee	sniffnet
graphqxl	snowball
groestlcoin	snowflake
gum	socket_vmnet
has	solc-select
hatch	souffle
helix	spectral-cli
helmify	speedbump
hermit	spr
highway	sql-language-server
hof	sqlcmd
hotbuild	standard
hpp-fcl	steampipe
htm	stencil
huggingface-cli	stepci
hwatch	stuffbin
hysteria	stylelint
hyx	svt-av1
ibazel	swiftdraw
iir1	swtpm
ijq	syft
install-peerdeps	synergy-core
interface99	syslog-ng
iptables	taplo
jackett	tart
jaq	tbls
jbang	tea
jj	teller
joker	temporal
jreleaser	tere
jscpd	terramate
json2tsv	textract
jupp	tfel
kalign	tinysearch
keploy	tlx

kics	toml-test
kt-connect	totp-cli
kubefirst	toxcore
kubesess	tproxy
kubevious	tradcpp
kustomizer	treefmt
leapp-cli	tremor-runtime
lemmeknow	trezor-bridge
levant	trzs-g
lexicon	ttdl
lgeneral	ttmath
libabw	tuc
libbpf	tuntox
libdivide	tut
libeatmydata	txt2man
libemf2svg	typewritten
libff	typos-cli
libfyaml	unisonlang
libgrapheme	unxip
libisofs	uthash
liblbfgs	valijson
libnetfilter_conntrack	vectorscan
libnftnl	verapdf
libnl	verovio
libobjc2	vhs
libplacebo	video-compare
libretls	vile
libunibreak	vineyard
liburing	vulkan-loader
libvatek	wasm-micro-runtime
libxcvt	waybackpy
license-eye	weasyprint
licensed	webkitgtk
licenseplst	wikibase-cli
licensor	x86_64-linux-gnu-binutils
linux-headers@5.15	xcode-kotlin
livekit	xcodes
livekit-cli	xctesthtmlreport
llama	xdg-ninja
llvm@13	xpipe
llvm@14	xq
lmfit	xwin
lndir	yorkie
luacheck	zf
lucky-commit	zx

You have **6** outdated formulae installed.

You can upgrade them with **brew upgrade**

or list them with **brew outdated**.

==> **Fetching tree**

==> **Downloading <https://ghcr.io/v2/homebrew/core/tree/manifests/2.1.0>**

100.0%

==> **Downloading <https://ghcr.io/v2/homebrew/core/tree/blobs/sha256:870fa02168b69>**

==> **Downloading from <https://pkg-containers.githubusercontent.com/ghcr1/blobs/sha256:870fa02168b69>**

100.0%

==> **Pouring tree--2.1.0.monterey.bottle.tar.gz**

/usr/local/Cellar/tree/2.1.0: 8 files, 158.4KB

==> **Running `brew cleanup tree`...**

Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.

Hide these hints with HOMEBREW_NO_ENV_HINTS (see `man brew`).

==> **`brew cleanup` has not been run in the last 30 days, running now...**

Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.

Hide these hints with HOMEBREW_NO_ENV_HINTS (see `man brew`).

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/ca-certificates--2022-04-26...
(121.8KB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/gdbm--1.23... (270.6KB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/mpdecimal--2.5.1... (545.2KB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/openssl@1.1--1.1.1o... (5.2MB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/python@3.9--3.9.12...
(14.3MB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/readline--8.1.2... (534.7KB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/sqlite--3.38.5... (2MB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/xz--5.2.5... (415.3KB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/gdbm_bottle_manifest--1.23...
(6.1KB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/xz_bottle_manifest--5.2.5...
(7.4KB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/python@3.9_bottle_manifest--
3.9.12... (18.1KB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/ca-certificates_bottle_manifest--
2022-04-26... (1.8KB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/sqlite_bottle_manifest--3.38.5...
(6.9KB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/mpdecimal_bottle_manifest--
2.5.1... (6.9KB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/openssl@1.1_bottle_manifest--
1.1.1o... (7.6KB)

Removing: /Users/swarnavpaul/Library/Caches/Homebrew/readline_bottle_manifest--
8.1.2... (6.6KB)

Removing: /Users/swarnavpaul/Library/Logs/Homebrew/gdbm... (64B)

Removing: /Users/swarnavpaul/Library/Logs/Homebrew/mpdecimal... (64B)

Removing: /Users/swarnavpaul/Library/Logs/Homebrew/readline... (64B)

Removing: /Users/swarnavpaul/Library/Logs/Homebrew/sqlite... (64B)

Removing: /Users/swarnavpaul/Library/Logs/Homebrew/xz... (64B)
Removing: /Users/swarnavpaul/Library/Logs/Homebrew/ca-certificates... (64B)
Removing: /Users/swarnavpaul/Library/Logs/Homebrew/openssl@1.1... (64B)
Removing: /Users/swarnavpaul/Library/Logs/Homebrew/python@3.9... (2 files, 2.4KB)
Pruned 0 symbolic links and 2 directories from /usr/local

swarnavs-MacBook-Air:devops swarnavpaul\$ tree /Users/swarnavpaul/devops

/Users/swarnavpaul/devops

```
├── coding
│   ├── ansible
│   ├── chef
│   │   ├── chefnode
│   │   ├── chefserver
│   │   └── chefworkstation
│   ├── puppet
│   │   ├── puppetnode
│   │   └── puppetserver
│   └── terraform
├── provision
│   ├── docker
│   ├── kubernetes
│   └── vagrant
│       ├── centos
│       │   └── Vagrantfile
│       ├── ubuntu
│       │   └── Vagrantfile
│       └── ubuntu-xenial-16.04-cloudimg-console.log
└── release
    ├── git
    ├── gitlab
    ├── jenkins
    ├── nagios
    └── tomcat
```

23 directories, 3 files

swarnavs-MacBook-Air:devops swarnavpaul\$ cd /Users/swarnavpaul/devops

swarnavs-MacBook-Air:devops swarnavpaul\$ la

-bash: la: command not found

swarnavs-MacBook-Air:devops swarnavpaul\$ ls

coding provision release

swarnavs-MacBook-Air:devops swarnavpaul\$ cd provision/

swarnavs-MacBook-Air:provision swarnavpaul\$ ls

docker kubernetes vagrant

swarnavs-MacBook-Air:provision swarnavpaul\$ cd vagrant/

swarnavs-MacBook-Air:vagrant swarnavpaul\$ ls

centos ubuntu

swarnavs-MacBook-Air:vagrant swarnavpaul\$ cd ubuntu

swarnavs-MacBook-Air:ubuntu swarnavpaul\$ ls

Vagrantfile ubuntu-xenial-16.04-cloudimg-console.log

```

swarnavs-MacBook-Air:ubuntu swarnavpaul$ code Vagrantfile
-bash: code: command not found
swarnavs-MacBook-Air:ubuntu swarnavpaul$ brew install bash
==> Fetching bash
==> Downloading https://ghcr.io/v2/homebrew/core/bash/manifests/5.2.15
#####
100.0%
==> Downloading
https://ghcr.io/v2/homebrew/core/bash/blobs/sha256:05a5f9435c9e9ffe8377b03e0ca6b27bbb32cc01aff47dd1692cd8d7e735ab3a
==> Downloading from
https://pkg-containers.githubusercontent.com/ghcr1/blobs/sha256:05a5f9435c9e9ffe8377b03e0ca6b27bbb32cc01aff47dd1692cd8d7e735ab3a?se=2023-01-06T05%3A45%3A00Z&sig=Wk0ApSJ8HQGxOzQTTM8VtC
#####
100.0%
==> Pouring bash--5.2.15.monterey.bottle.tar.gz
  /usr/local/Cellar/bash/5.2.15: 162 files, 11.7MB
==> Running `brew cleanup bash`...
Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.
Hide these hints with HOMEBREW_NO_ENV_HINTS (see `man brew`).
swarnavs-MacBook-Air:ubuntu swarnavpaul$ cd /Users/swarnavpaul/devops
swarnavs-MacBook-Air:devops swarnavpaul$ ls
coding          provision  release
swarnavs-MacBook-Air:devops swarnavpaul$ bash
bash-5.2$
bash-5.2$
bash-5.2$ sudo su -
Password:
swarnavs-MacBook-Air:~ root# ls
.CFUserTextEncoding  .forward      Library
swarnavs-MacBook-Air:~ root# cd /
swarnavs-MacBook-Air:/ root# ls
.VolumeIcon.icns    Applications  Users          cores          home
                   sbin          var
.file               Library      Volumes        dev            opt
                   tmp
.vol                System      bin            etc            private
                   usr
swarnavs-MacBook-Air:/ root# cd ~
swarnavs-MacBook-Air:~ root# cd ~/devops
-sh: cd: /var/root/devops: No such file or directory
swarnavs-MacBook-Air:~ root# curl -sSL
https://gitlab.com/roybhaskar9/devops/raw/master/Lab/LaptopLab/Windows/version10/
labfolders.sh | bash
A `Vagrantfile` has been placed in this directory. You are now
ready to `vagrant up` your first virtual environment! Please read
the comments in the Vagrantfile as well as documentation on

```

`vagrantup.com` for more information on using Vagrant.
Bringing machine 'default' up with 'virtualbox' provider...
==> **default: Box 'centos/7' could not be found. Attempting to find and install...**
 default: Box Provider: virtualbox
 default: Box Version: >= 0
==> **default: Loading metadata for box 'centos/7'**
 default: URL: <https://vagrantcloud.com/centos/7>
==> **default: Adding box 'centos/7' (v2004.01) for provider: virtualbox**
 default: Downloading:
<https://vagrantcloud.com/centos/boxes/7/versions/2004.01/providers/virtualbox.box>
Download redirected to host: cloud.centos.org
 default: Calculating and comparing box checksum...
==> **default: Successfully added box 'centos/7' (v2004.01) for 'virtualbox'!**
==> **default: Importing base box 'centos/7'...**
==> **default: Matching MAC address for NAT networking...**
==> **default: Checking if box 'centos/7' version '2004.01' is up to date...**
==> **default: Setting the name of the VM: centos_default_1672984286575_46153**
==> **default: Clearing any previously set network interfaces...**
==> **default: Preparing network interfaces based on configuration...**
 default: Adapter 1: nat
==> **default: Forwarding ports...**
 default: 22 (guest) => 2222 (host) (adapter 1)
==> **default: Booting VM...**
==> **default: Waiting for machine to boot. This may take a few minutes...**
 default: SSH address: 127.0.0.1:2222
 default: SSH username: vagrant
 default: SSH auth method: private key
 default:
 default: Vagrant insecure key detected. Vagrant will automatically replace
 default: this with a newly generated keypair for better security.
 default:
 default: Inserting generated public key within guest...
 default: Removing insecure key from the guest if it's present...
 default: Key inserted! Disconnecting and reconnecting using new SSH key...
==> **default: Machine booted and ready!**
==> **default: Checking for guest additions in VM...**
 default: No guest additions were detected on the base box for this VM! Guest
 default: additions are required for forwarded ports, shared folders, host only
 default: networking, and more. If SSH fails on this machine, please install
 default: the guest additions and repackage the box to continue.
 default:
 default: This is not an error message; everything may continue to work properly,
 default: in which case you may ignore this message.
==> **default: Rsyncing folder: /private/var/root/devops/provision/vagrant/centos/ =>**
/vagrant
==> **default: Attempting graceful shutdown of VM...**
A `Vagrantfile` has been placed in this directory. You are now
ready to `vagrant up` your first virtual environment! Please read

the comments in the Vagrantfile as well as documentation on
`vagrantup.com` for more information on using Vagrant.

Bringing machine 'default' up with 'virtualbox' provider...

==> **default: Box 'ubuntu/xenial64' could not be found. Attempting to find and install...**

default: Box Provider: virtualbox

default: Box Version: >= 0

==> **default: Loading metadata for box 'ubuntu/xenial64'**

default: URL: <https://vagrantcloud.com/ubuntu/xenial64>

==> **default: Adding box 'ubuntu/xenial64' (v20211001.0.0) for provider: virtualbox**

default: Downloading:

<https://vagrantcloud.com/ubuntu/boxes/xenial64/versions/20211001.0.0/providers/virtualbox.box>

Download redirected to host: cloud-images.ubuntu.com

==> **default: Successfully added box 'ubuntu/xenial64' (v20211001.0.0) for 'virtualbox'!**

==> **default: Importing base box 'ubuntu/xenial64'...**

==> **default: Matching MAC address for NAT networking...**

==> **default: Checking if box 'ubuntu/xenial64' version '20211001.0.0' is up to date...**

==> **default: Setting the name of the VM: ubuntu_default_1672984409636_40881**

Vagrant is currently configured to create VirtualBox synced folders with the `SharedFoldersEnableSymlinksCreate` option enabled. If the Vagrant guest is not trusted, you may want to disable this option. For more information on this option, please refer to the VirtualBox manual:

<https://www.virtualbox.org/manual/ch04.html#sharedfolders>

This option can be disabled globally with an environment variable:

VAGRANT_DISABLE_VBOXSYMLINKCREATE=1

or on a per folder basis within the Vagrantfile:

```
config.vm.synced_folder '/host/path', '/guest/path', SharedFoldersEnableSymlinksCreate: false
```

==> **default: Clearing any previously set network interfaces...**

==> **default: Preparing network interfaces based on configuration...**

default: Adapter 1: nat

==> **default: Forwarding ports...**

default: 22 (guest) => 2222 (host) (adapter 1)

==> **default: Running 'pre-boot' VM customizations...**

==> **default: Booting VM...**

==> **default: Waiting for machine to boot. This may take a few minutes...**

default: SSH address: 127.0.0.1:2222

default: SSH username: vagrant

default: SSH auth method: private key

default:

default: Vagrant insecure key detected. Vagrant will automatically replace

default: this with a newly generated keypair for better security.

default:

default: Inserting generated public key within guest...

default: Removing insecure key from the guest if it's present...

default: Key inserted! Disconnecting and reconnecting using new SSH key...

==> **default: Machine booted and ready!**

==> **default: Checking for guest additions in VM...**

default: The guest additions on this VM do not match the installed version of

default: VirtualBox! In most cases this is fine, but in rare cases it can

default: prevent things such as shared folders from working properly. If you see

default: shared folder errors, please make sure the guest additions within the

default: virtual machine match the version of VirtualBox you have installed on

default: your host and reload your VM.

default:

default: Guest Additions Version: 5.1.38

default: VirtualBox Version: 7.0

==> **default: Mounting shared folders...**

default: /vagrant => /private/var/root/devops/provision/vagrant/ubuntu

==> **default: Attempting graceful shutdown of VM...**

Lab Setup Complete

swarnavs-MacBook-Air:~ root# pwd

/var/root

swarnavs-MacBook-Air:~ root# cd ~

swarnavs-MacBook-Air:~ root# ls

.CFUserTextEncoding .vagrant.d VirtualBox VMs

.forward Library devops

swarnavs-MacBook-Air:~ root# cd devops/provision/vagrant/bionic

-sh: cd: devops/provision/vagrant/bionic: No such file or directory

swarnavs-MacBook-Air:~ root# cd devops/provision/vagrant/ubuntu

swarnavs-MacBook-Air:ubuntu root# ls

.vagrant ubuntu-xenial-16.04-cloudimg-console.log

Vagrantfile

swarnavs-MacBook-Air:ubuntu root# code Vagrantfile

-sh: code: command not found

swarnavs-MacBook-Air:ubuntu root# brew install --cask visual-studio-code

Error: Running Homebrew as root is extremely dangerous and no longer supported.

As Homebrew does not drop privileges on installation you would be giving all
build scripts full access to your system.

swarnavs-MacBook-Air:ubuntu root# exit

logout

bash-5.2\$ brew install --cask visual-studio-code

Running `brew update --auto-update`...

==> **Auto-updated Homebrew!**

Updated 1 tap (homebrew/core).

You have **6** outdated formulae installed.

You can upgrade them with **brew upgrade**

or list them with **brew outdated**.

```
init initializes a new Vagrant environment by creating a Vagrantfile
```


login	
package	packages a running vagrant environment into a box
plugin	manages plugins: install, uninstall, update, etc.
port	displays information about guest port mappings
powershell	connects to machine via powershell remoting
provision	provisions the vagrant machine
push	deploys code in this environment to a configured destination
rdp	connects to machine via RDP
reload	restarts vagrant machine, loads new Vagrantfile configuration
resume	resume a suspended vagrant machine
serve	start Vagrant server
snapshot	manages snapshots: saving, restoring, etc.
ssh	connects to machine via SSH
ssh-config	outputs OpenSSH valid configuration to connect to the machine
status	outputs status of the vagrant machine
suspend	suspends the machine
up	starts and provisions the vagrant environment
upload	upload to machine via communicator
validate	validates the Vagrantfile
version	prints current and latest Vagrant version
winrm	executes commands on a machine via WinRM
winrm-config	outputs WinRM configuration to connect to the machine

For help on any individual command run `vagrant COMMAND -h`

Additional subcommands are available, but are either more advanced or not commonly used. To see all subcommands, run the command `vagrant list-commands`.

--[no-]color	Enable or disable color output
--machine-readable	Enable machine readable output
-v, --version	Display Vagrant version
--debug	Enable debug output
--timestamp	Enable timestamps on log output
--debug-timestamp	Enable debug output with timestamps
--no-tty	Enable non-interactive output

bash-5.2\$ vagrant list boxex

Usage: vagrant [options] <command> [<args>]

-h, --help	Print this help.
------------	------------------

Common commands:

autocomplete	manages autocomplete installation on host
box	manages boxes: installation, removal, etc.
cloud	manages everything related to Vagrant Cloud
destroy	stops and deletes all traces of the vagrant machine
global-status	outputs status Vagrant environments for this user
halt	stops the vagrant machine

help	shows the help for a subcommand
init	initializes a new Vagrant environment by creating a Vagrantfile
login	
package	packages a running vagrant environment into a box
plugin	manages plugins: install, uninstall, update, etc.
port	displays information about guest port mappings
powershell	connects to machine via powershell remoting
provision	provisions the vagrant machine
push	deploys code in this environment to a configured destination
rdp	connects to machine via RDP
reload	restarts vagrant machine, loads new Vagrantfile configuration
resume	resume a suspended vagrant machine
serve	start Vagrant server
snapshot	manages snapshots: saving, restoring, etc.
ssh	connects to machine via SSH
ssh-config	outputs OpenSSH valid configuration to connect to the machine
status	outputs status of the vagrant machine
suspend	suspends the machine
up	starts and provisions the vagrant environment
upload	upload to machine via communicator
validate	validates the Vagrantfile
version	prints current and latest Vagrant version
winrm	executes commands on a machine via WinRM
winrm-config	outputs WinRM configuration to connect to the machine

For help on any individual command run `vagrant COMMAND -h`

Additional subcommands are available, but are either more advanced or not commonly used. To see all subcommands, run the command `vagrant list-commands`.

--[no-]color	Enable or disable color output
--machine-readable	Enable machine readable output
-v, --version	Display Vagrant version
--debug	Enable debug output
--timestamp	Enable timestamps on log output
--debug-timestamp	Enable debug output with timestamps
--no-tty	Enable non-interactive output

```
bash-5.2$ sudo su -
```

```
Password:
```

```
Sorry, try again.
```

```
Password:
```

```
Sorry, try again.
```

```
Password:
```

```
swarnavs-MacBook-Air:~ root# cd ~/devops/provision/vagrant/ubuntu
```

```
swarnavs-MacBook-Air:ubuntu root# pwd
```

```
/var/root/devops/provision/vagrant/ubuntu
```

```
swarnavs-MacBook-Air:ubuntu root# vagrant box add generic/ubuntu
```

The box 'generic/ubuntu' could not be found or could not be accessed in the remote catalog. If this is a private box on HashiCorp's Vagrant Cloud, please verify you're logged in via `vagrant login`. Also, please double-check the name. The expanded URL and error message are shown below:

URL: ["https://vagrantcloud.com/generic/ubuntu"]

Error: The requested URL returned error: 404

swarnavs-MacBook-Air:ubuntu root# vagrant box add generic/ubuntu1804

==> box: Loading metadata for box 'generic/ubuntu1804'

box: URL: https://vagrantcloud.com/generic/ubuntu1804

This box can work with multiple providers! The providers that it can work with are listed below. Please review the list and choose the provider you will be working with.

- 1) hyperv
- 2) libvirt
- 3) parallels
- 4) virtualbox
- 5) vmware_desktop

Enter your choice: 4

==> box: Adding box 'generic/ubuntu1804' (v4.2.8) for provider: virtualbox

box: Downloading:

https://vagrantcloud.com/generic/boxes/ubuntu1804/versions/4.2.8/providers/virtualbox.box

Progress: 7% (Rate: 5526k/s, Estimated time remaining: 0:04:33)^R

box: Calculating and comparing box checksum...

==> box: Successfully added box 'generic/ubuntu1804' (v4.2.8) for 'virtualbox'!

swarnavs-MacBook-Air:ubuntu root# =vagrant box list

-sh: =vagrant: command not found

swarnavs-MacBook-Air:ubuntu root# vagrant box list

centos/7 (virtualbox, 2004.01)

generic/ubuntu1804 (virtualbox, 4.2.8)

ubuntu/xenial64 (virtualbox, 20211001.0.0)

swarnavs-MacBook-Air:ubuntu root# ls

.vagrant Vagrantfile

ubuntu-xenial-16.04-

cloudimg-console.log

swarnavs-MacBook-Air:ubuntu root# rm Vagrantfile

swarnavs-MacBook-Air:ubuntu root# vagrant init generic/ubuntu1804 --force

A `Vagrantfile` has been placed in this directory. You are now ready to `vagrant up` your first virtual environment! Please read the comments in the Vagrantfile as well as documentation on `vagrantup.com` for more information on using Vagrant.

swarnavs-MacBook-Air:ubuntu root# ls

.vagrant Vagrantfile

ubuntu-xenial-16.04-

cloudimg-console.log

swarnavs-MacBook-Air:ubuntu root# code Vagrantfile

swarnavs-MacBook-Air:ubuntu root# code Vagrantfile

```
swarnavs-MacBook-Air:ubuntu root# code Vagrantfile
swarnavs-MacBook-Air:ubuntu root# cat Vagrantfile
# -*- mode: ruby -*-
# vi: set ft=ruby :

# All Vagrant configuration is done below. The "2" in Vagrant.configure
# configures the configuration version (we support older styles for
# backwards compatibility). Please don't change it unless you know what
# you're doing.
Vagrant.configure("2") do |config|
  # The most common configuration options are documented and commented below.
  # For a complete reference, please see the online documentation at
  # https://docs.vagrantup.com.

  # Every Vagrant development environment requires a box. You can search for
  # boxes at https://vagrantcloud.com/search.
  config.vm.box = "generic/ubuntu1804"

  # Disable automatic box update checking. If you disable this, then
  # boxes will only be checked for updates when the user runs
  # `vagrant box outdated`. This is not recommended.
  # config.vm.box_check_update = false

  # Create a forwarded port mapping which allows access to a specific port
  # within the machine from a port on the host machine. In the example below,
  # accessing "localhost:8080" will access port 80 on the guest machine.
  # NOTE: This will enable public access to the opened port
  # config.vm.network "forwarded_port", guest: 80, host: 8080

  # Create a forwarded port mapping which allows access to a specific port
  # within the machine from a port on the host machine and only allow access
  # via 127.0.0.1 to disable public access
  # config.vm.network "forwarded_port", guest: 80, host: 8080, host_ip: "127.0.0.1"

  # Create a private network, which allows host-only access to the machine
  # using a specific IP.
  # config.vm.network "private_network", ip: "192.168.33.10"

  # Create a public network, which generally matched to bridged network.
  # Bridged networks make the machine appear as another physical device on
  # your network.
  # config.vm.network "public_network"

  # Share an additional folder to the guest VM. The first argument is
  # the path on the host to the actual folder. The second argument is
  # the path on the guest to mount the folder. And the optional third
  # argument is a set of non-required options.
  # config.vm.synced_folder "../data", "/vagrant_data"
```

```

# Provider-specific configuration so you can fine-tune various
# backing providers for Vagrant. These expose provider-specific options.
# Example for VirtualBox:
#
# config.vm.provider "virtualbox" do |vb|
#   # Display the VirtualBox GUI when booting the machine
#   vb.gui = true
#
#   # Customize the amount of memory on the VM:
#   vb.memory = "1024"
# end
#
# View the documentation for the provider you are using for more
# information on available options.

# Enable provisioning with a shell script. Additional provisioners such as
# Ansible, Chef, Docker, Puppet and Salt are also available. Please see the
# documentation for more information about their specific syntax and use.
# config.vm.provision "shell", inline: <<-SHELL
# apt-get update
# apt-get install -y apache2
# SHELL
end
swarnavs-MacBook-Air:ubuntu root# code Vagrantfile
swarnavs-MacBook-Air:ubuntu root#
swarnavs-MacBook-Air:ubuntu root# vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Checking if box 'ubuntu/xenial64' version '20211001.0.0' is up to date...
==> default: Clearing any previously set forwarded ports...
==> default: Clearing any previously set network interfaces...
==> default: Preparing network interfaces based on configuration...
    default: Adapter 1: nat
==> default: Forwarding ports...
    default: 22 (guest) => 2222 (host) (adapter 1)
==> default: Running 'pre-boot' VM customizations...
==> default: Booting VM...
==> default: Waiting for machine to boot. This may take a few minutes...
    default: SSH address: 127.0.0.1:2222
    default: SSH username: vagrant
    default: SSH auth method: private key
==> default: Machine booted and ready!
==> default: Checking for guest additions in VM...
    default: The guest additions on this VM do not match the installed version of
    default: VirtualBox! In most cases this is fine, but in rare cases it can
    default: prevent things such as shared folders from working properly. If you see
    default: shared folder errors, please make sure the guest additions within the
    default: virtual machine match the version of VirtualBox you have installed on

```

default: your host and reload your VM.

default:

default: Guest Additions Version: 5.1.38

default: VirtualBox Version: 7.0

==> **default: Mounting shared folders...**

default: /vagrant => /private/var/root/devops/provision/vagrant/ubuntu

==> **default: Machine already provisioned. Run `vagrant provision` or use the `--provision`**

==> **default: flag to force provisioning. Provisioners marked to run always will still run.**

swarnavs-MacBook-Air:ubuntu root# vagrant ssh

Welcome to Ubuntu 16.04.7 LTS (GNU/Linux 4.4.0-210-generic x86_64)

* Documentation: <https://help.ubuntu.com>

* Management: <https://landscape.canonical.com>

* Support: <https://ubuntu.com/advantage>

UA Infra: Extended Security Maintenance (ESM) is not enabled.

0 updates can be applied immediately.

45 additional security updates can be applied with UA Infra: ESM

Learn more about enabling UA Infra: ESM service for Ubuntu 16.04 at

<https://ubuntu.com/16-04>

New release '18.04.6 LTS' available.

Run 'do-release-upgrade' to upgrade to it.

vagrant@ubuntu-xenial:~\$ sudo su -

root@ubuntu-xenial:~# cat /etc/*release

DISTRIB_ID=Ubuntu

DISTRIB_RELEASE=16.04

DISTRIB_CODENAME=xenial

DISTRIB_DESCRIPTION="Ubuntu 16.04.7 LTS"

NAME="Ubuntu"

VERSION="16.04.7 LTS (Xenial Xerus)"

ID=ubuntu

ID_LIKE=debian

PRETTY_NAME="Ubuntu 16.04.7 LTS"

VERSION_ID="16.04"

HOME_URL="http://www.ubuntu.com/"

SUPPORT_URL="http://help.ubuntu.com/"

BUG_REPORT_URL="http://bugs.launchpad.net/ubuntu/"

VERSION_CODENAME=xenial

UBUNTU_CODENAME=xenial

root@ubuntu-xenial:~# exit

logout

vagrant@ubuntu-xenial:~\$ exit

logout

Connection to 127.0.0.1 closed.

swarnavs-MacBook-Air:ubuntu root# vagrant destroy -f

==> default: Forcing shutdown of VM...

==> default: Destroying VM and associated drives...

swarnavs-MacBook-Air:ubuntu root# vagrant statys

Usage: vagrant [options] <command> [<args>]

-h, --help Print this help.

Common commands:

autocomplete	manages autocomplete installation on host
box	manages boxes: installation, removal, etc.
cloud	manages everything related to Vagrant Cloud
destroy	stops and deletes all traces of the vagrant machine
global-status	outputs status Vagrant environments for this user
halt	stops the vagrant machine
help	shows the help for a subcommand
init	initializes a new Vagrant environment by creating a Vagrantfile
login	
package	packages a running vagrant environment into a box
plugin	manages plugins: install, uninstall, update, etc.
port	displays information about guest port mappings
powershell	connects to machine via powershell remoting
provision	provisions the vagrant machine
push	deploys code in this environment to a configured destination
rdp	connects to machine via RDP
reload	restarts vagrant machine, loads new Vagrantfile configuration
resume	resume a suspended vagrant machine
serve	start Vagrant server
snapshot	manages snapshots: saving, restoring, etc.
ssh	connects to machine via SSH
ssh-config	outputs OpenSSH valid configuration to connect to the machine
status	outputs status of the vagrant machine
suspend	suspends the machine
up	starts and provisions the vagrant environment
upload	upload to machine via communicator
validate	validates the Vagrantfile
version	prints current and latest Vagrant version
winrm	executes commands on a machine via WinRM
winrm-config	outputs WinRM configuration to connect to the machine

For help on any individual command run `vagrant COMMAND -h`

Additional subcommands are available, but are either more advanced or not commonly used. To see all subcommands, run the command `vagrant list-commands`.

--[no-]color	Enable or disable color output
--machine-readable	Enable machine readable output
-v, --version	Display Vagrant version
--debug	Enable debug output
--timestamp	Enable timestamps on log output
--debug-timestamp	Enable debug output with timestamps
--no-tty	Enable non-interactive output

swarnavs-MacBook-Air:ubuntu root# vagrant status
Current machine states:

default not created (virtualbox)

The environment has not yet been created. Run `vagrant up` to create the environment. If a machine is not created, only the default provider will be shown. So if a provider is not listed, then the machine is not created for that environment.

swarnavs-MacBook-Air:ubuntu root# vagrant box list

centos/7 (virtualbox, 2004.01)

generic/ubuntu1804 (virtualbox, 4.2.8)

ubuntu/xenial64 (virtualbox, 20211001.0.0)

swarnavs-MacBook-Air:ubuntu root# vagrant box --help

Usage: vagrant box <subcommand> [<args>]

Available subcommands:

- add
- list
- outdated
- prune
- remove
- repackage
- update

For help on any individual subcommand run `vagrant box <subcommand> -h`

--[no-]color	Enable or disable color output
--machine-readable	Enable machine readable output
-v, --version	Display Vagrant version
--debug	Enable debug output
--timestamp	Enable timestamps on log output
--debug-timestamp	Enable debug output with timestamps
--no-tty	Enable non-interactive output

swarnavs-MacBook-Air:ubuntu root# vagrant box remove ubuntu/xenial64

Removing box 'ubuntu/xenial64' (v20211001.0.0) with provider 'virtualbox'...

swarnavs-MacBook-Air:ubuntu root#

swarnavs-MacBook-Air:ubuntu root#

swarnavs-MacBook-Air:ubuntu root# vagrant box list

centos/7 (virtualbox, 2004.01)


```

generic/ubuntu1804 (virtualbox, 4.2.8)
swarnavs-MacBook-Air:ubuntu root#
swarnavs-MacBook-Air:ubuntu root#
swarnavs-MacBook-Air:ubuntu root# ls
.vagrant                                ubuntu-xenial-16.04-cloudimg-console.log
Vagrantfile
swarnavs-MacBook-Air:ubuntu root# rm -f Vagrantfile
swarnavs-MacBook-Air:ubuntu root# ls
.vagrant                                ubuntu-xenial-16.04-cloudimg-console.log
swarnavs-MacBook-Air:ubuntu root# vagrant init generic/ubuntu --force
A `Vagrantfile` has been placed in this directory. You are now
ready to `vagrant up` your first virtual environment! Please read
the comments in the Vagrantfile as well as documentation on
`vagrantup.com` for more information on using Vagrant.
swarnavs-MacBook-Air:ubuntu root#
swarnavs-MacBook-Air:ubuntu root#
swarnavs-MacBook-Air:ubuntu root# ls
.vagrant                                ubuntu-xenial-16.04-cloudimg-console.log
Vagrantfile
swarnavs-MacBook-Air:ubuntu root# cat Vagrantfile
# -*- mode: ruby -*-
# vi: set ft=ruby :

# All Vagrant configuration is done below. The "2" in Vagrant.configure
# configures the configuration version (we support older styles for
# backwards compatibility). Please don't change it unless you know what
# you're doing.
Vagrant.configure("2") do |config|
  # The most common configuration options are documented and commented below.
  # For a complete reference, please see the online documentation at
  # https://docs.vagrantup.com.

  # Every Vagrant development environment requires a box. You can search for
  # boxes at https://vagrantcloud.com/search.
  config.vm.box = "generic/ubuntu"

  # Disable automatic box update checking. If you disable this, then
  # boxes will only be checked for updates when the user runs
  # `vagrant box outdated`. This is not recommended.
  # config.vm.box_check_update = false

  # Create a forwarded port mapping which allows access to a specific port
  # within the machine from a port on the host machine. In the example below,
  # accessing "localhost:8080" will access port 80 on the guest machine.
  # NOTE: This will enable public access to the opened port
  # config.vm.network "forwarded_port", guest: 80, host: 8080

  # Create a forwarded port mapping which allows access to a specific port

```

```

# within the machine from a port on the host machine and only allow access
# via 127.0.0.1 to disable public access
# config.vm.network "forwarded_port", guest: 80, host: 8080, host_ip: "127.0.0.1"

# Create a private network, which allows host-only access to the machine
# using a specific IP.
# config.vm.network "private_network", ip: "192.168.33.10"

# Create a public network, which generally matched to bridged network.
# Bridged networks make the machine appear as another physical device on
# your network.
# config.vm.network "public_network"

# Share an additional folder to the guest VM. The first argument is
# the path on the host to the actual folder. The second argument is
# the path on the guest to mount the folder. And the optional third
# argument is a set of non-required options.
# config.vm.synced_folder "../data", "/vagrant_data"

# Provider-specific configuration so you can fine-tune various
# backing providers for Vagrant. These expose provider-specific options.
# Example for VirtualBox:
#
# config.vm.provider "virtualbox" do |vb|
#   # Display the VirtualBox GUI when booting the machine
#   vb.gui = true
#
#   # Customize the amount of memory on the VM:
#   vb.memory = "1024"
# end
#
# View the documentation for the provider you are using for more
# information on available options.

# Enable provisioning with a shell script. Additional provisioners such as
# Ansible, Chef, Docker, Puppet and Salt are also available. Please see the
# documentation for more information about their specific syntax and use.
# config.vm.provision "shell", inline: <<-SHELL
# apt-get update
# apt-get install -y apache2
# SHELL
end
swarnavs-MacBook-Air:ubuntu root#
swarnavs-MacBook-Air:ubuntu root# vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Box 'generic/ubuntu' could not be found. Attempting to find and install...
    default: Box Provider: virtualbox
    default: Box Version: >= 0

```

The box 'generic/ubuntu' could not be found or could not be accessed in the remote catalog. If this is a private box on HashiCorp's Vagrant Cloud, please verify you're logged in via `vagrant login`. Also, please double-check the name. The expanded URL and error message are shown below:

URL: ["https://vagrantcloud.com/generic/ubuntu"]

Error: The requested URL returned error: 404

```
swarnavs-MacBook-Air:ubuntu root# rm -f Vagrantfile
```

```
swarnavs-MacBook-Air:ubuntu root# ls
```

```
.vagrant                                ubuntu-xenial-16.04-cloudimg-console.log
```

```
swarnavs-MacBook-Air:ubuntu root# vagrant init generic/ubuntu1804 --force
```

A `Vagrantfile` has been placed in this directory. You are now ready to `vagrant up` your first virtual environment! Please read the comments in the Vagrantfile as well as documentation on `vagrantup.com` for more information on using Vagrant.

```
swarnavs-MacBook-Air:ubuntu root# ls
```

```
.vagrant                                ubuntu-xenial-16.04-cloudimg-console.log
```

```
Vagrantfile
```

```
swarnavs-MacBook-Air:ubuntu root# cat Vagrantfile
```

```
# -*- mode: ruby -*-
```

```
# vi: set ft=ruby :
```

```
# All Vagrant configuration is done below. The "2" in Vagrant.configure
# configures the configuration version (we support older styles for
# backwards compatibility). Please don't change it unless you know what
# you're doing.
```

```
Vagrant.configure("2") do |config|
```

```
  # The most common configuration options are documented and commented below.
```

```
  # For a complete reference, please see the online documentation at
```

```
  # https://docs.vagrantup.com.
```

```
# Every Vagrant development environment requires a box. You can search for
# boxes at https://vagrantcloud.com/search.
```

```
config.vm.box = "generic/ubuntu1804"
```

```
# Disable automatic box update checking. If you disable this, then
```

```
# boxes will only be checked for updates when the user runs
```

```
# `vagrant box outdated`. This is not recommended.
```

```
# config.vm.box_check_update = false
```

```
# Create a forwarded port mapping which allows access to a specific port
```

```
# within the machine from a port on the host machine. In the example below,
```

```
# accessing "localhost:8080" will access port 80 on the guest machine.
```

```
# NOTE: This will enable public access to the opened port
```

```
# config.vm.network "forwarded_port", guest: 80, host: 8080
```

```
# Create a forwarded port mapping which allows access to a specific port
```

```

# within the machine from a port on the host machine and only allow access
# via 127.0.0.1 to disable public access
# config.vm.network "forwarded_port", guest: 80, host: 8080, host_ip: "127.0.0.1"

# Create a private network, which allows host-only access to the machine
# using a specific IP.
# config.vm.network "private_network", ip: "192.168.33.10"

# Create a public network, which generally matched to bridged network.
# Bridged networks make the machine appear as another physical device on
# your network.
# config.vm.network "public_network"

# Share an additional folder to the guest VM. The first argument is
# the path on the host to the actual folder. The second argument is
# the path on the guest to mount the folder. And the optional third
# argument is a set of non-required options.
# config.vm.synced_folder "../data", "/vagrant_data"

# Provider-specific configuration so you can fine-tune various
# backing providers for Vagrant. These expose provider-specific options.
# Example for VirtualBox:
#
# config.vm.provider "virtualbox" do |vb|
#   # Display the VirtualBox GUI when booting the machine
#   vb.gui = true
#
#   # Customize the amount of memory on the VM:
#   vb.memory = "1024"
# end
#
# View the documentation for the provider you are using for more
# information on available options.

# Enable provisioning with a shell script. Additional provisioners such as
# Ansible, Chef, Docker, Puppet and Salt are also available. Please see the
# documentation for more information about their specific syntax and use.
# config.vm.provision "shell", inline: <<-SHELL
# apt-get update
# apt-get install -y apache2
# SHELL
end
swarnavs-MacBook-Air:ubuntu root# ls
.vagrant                                ubuntu-xenial-16.04-cloudimg-console.log
Vagrantfile
swarnavs-MacBook-Air:ubuntu root# vagrant status
Current machine states:

```

default not created (virtualbox)

The environment has not yet been created. Run `vagrant up` to create the environment. If a machine is not created, only the default provider will be shown. So if a provider is not listed, then the machine is not created for that environment.

swarnavs-MacBook-Air:ubuntu root# vagrant up

Bringing machine 'default' up with 'virtualbox' provider...

==> **default: Importing base box 'generic/ubuntu1804'...**

==> **default: Matching MAC address for NAT networking...**

==> **default: Checking if box 'generic/ubuntu1804' version '4.2.8' is up to date...**

==> **default: Setting the name of the VM: ubuntu_default_1672988843112_98852**

==> **default: Clearing any previously set network interfaces...**

==> **default: Preparing network interfaces based on configuration...**

default: Adapter 1: nat

==> **default: Forwarding ports...**

default: 22 (guest) => 2222 (host) (adapter 1)

==> **default: Running 'pre-boot' VM customizations...**

==> **default: Booting VM...**

==> **default: Waiting for machine to boot. This may take a few minutes...**

default: SSH address: 127.0.0.1:2222

default: SSH username: vagrant

default: SSH auth method: private key

default: Warning: Connection reset. Retrying...

default: Warning: Remote connection disconnect. Retrying...

default:

default: Vagrant insecure key detected. Vagrant will automatically replace

default: this with a newly generated keypair for better security.

default:

default: Inserting generated public key within guest...

default: Removing insecure key from the guest if it's present...

default: Key inserted! Disconnecting and reconnecting using new SSH key...

==> **default: Machine booted and ready!**

==> **default: Checking for guest additions in VM...**

default: The guest additions on this VM do not match the installed version of

default: VirtualBox! In most cases this is fine, but in rare cases it can

default: prevent things such as shared folders from working properly. If you see

default: shared folder errors, please make sure the guest additions within the

default: virtual machine match the version of VirtualBox you have installed on

default: your host and reload your VM.

default:

default: Guest Additions Version: 5.2.42

default: VirtualBox Version: 7.0

swarnavs-MacBook-Air:ubuntu root# vagrant ssh

vagrant@ubuntu1804:~\$ sudo su -

root@ubuntu1804:~# cat /etc/*release

DISTRIB_ID=Ubuntu

DISTRIB_RELEASE=18.04

```
DISTRIB_CODENAME=bionic
DISTRIB_DESCRIPTION="Ubuntu 18.04.6 LTS"
NAME="Ubuntu"
VERSION="18.04.6 LTS (Bionic Beaver)"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 18.04.6 LTS"
VERSION_ID="18.04"
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
VERSION_CODENAME=bionic
UBUNTU_CODENAME=bionic
root@ubuntu1804:~# curl -fsSL https://test.docker.com -o test-docker.sh
root@ubuntu1804:~# sh test-docker.sh
# Executing docker install script, commit: 4f282167c425347a931ccfd95cc91fab041d414f
+ sh -c apt-get update -qq >/dev/null

+ sh -c DEBIAN_FRONTEND=noninteractive apt-get install -y -qq apt-transport-https ca-
certificates curl >/dev/null
+ sh -c mkdir -p /etc/apt/keyrings && chmod -R 0755 /etc/apt/keyrings
+ sh -c curl -fsSL "https://download.docker.com/linux/ubuntu/gpg" | gpg --dearmor --yes -
o /etc/apt/keyrings/docker.gpg
+ sh -c chmod a+r /etc/apt/keyrings/docker.gpg
+ sh -c echo "deb [arch=amd64 signed-by=/etc/apt/keyrings/docker.gpg]
https://download.docker.com/linux/ubuntu bionic test" > /etc/apt/sources.list.d/docker.list
+ sh -c apt-get update -qq >/dev/null
+ sh -c DEBIAN_FRONTEND=noninteractive apt-get install -y -qq --no-install-
recommends docker-ce docker-ce-cli containerd.io docker-compose-plugin docker-scan-
plugin docker-buildx-plugin >/dev/null
+ version_gte 20.10
+ [ -z ]
+ return 0
+ sh -c DEBIAN_FRONTEND=noninteractive apt-get install -y -qq docker-ce-rootless-
extras >/dev/null
+ sh -c docker version
Client: Docker Engine - Community
Version:      23.0.0-rc.1
API version:  1.42
Go version:   go1.19.4
Git commit:   139e924
Built:        Thu Dec 22 23:36:50 2022
OS/Arch:      linux/amd64
Context:      default
```

Server: Docker Engine - Community

Engine:
Version: 23.0.0-rc.1
API version: 1.42 (minimum version 1.12)
Go version: go1.19.4
Git commit: cba986b
Built: Thu Dec 22 23:36:50 2022
OS/Arch: linux/amd64
Experimental: false
containerd:
Version: 1.6.14
GitCommit: 9ba4b250366a5ddd94bb7c9d1def331423aa323
runc:
Version: 1.1.4
GitCommit: v1.1.4-0-g5fd4c4d
docker-init:
Version: 0.19.0
GitCommit: de40ad0

=====

To run Docker as a non-privileged user, consider setting up the Docker daemon in rootless mode for your user:

```
dockerd-rootless-setuptool.sh install
```

Visit <https://docs.docker.com/go/rootless/> to learn about rootless mode.

To run the Docker daemon as a fully privileged service, but granting non-root users access, refer to <https://docs.docker.com/go/daemon-access/>

WARNING: Access to the remote API on a privileged Docker daemon is equivalent to root access on the host. Refer to the 'Docker daemon attack surface' documentation for details: <https://docs.docker.com/go/attack-surface/>

=====

```
root@ubuntu1804:~#  
root@ubuntu1804:~#  
root@ubuntu1804:~# exit  
logout  
vagrant@ubuntu1804:~$ exit  
logout  
Connection to 127.0.0.1 closed.  
swarnavs-MacBook-Air:ubuntu root# vagrant halt  
==> default: Attempting graceful shutdown of VM...
```

```
swarnavs-MacBook-Air:ubuntu root# vagrant status
```

Current machine states:

```
default                poweroff (virtualbox)
```

The VM is powered off. To restart the VM, simply run `vagrant up`

```
swarnavs-MacBook-Air:ubuntu root#
```