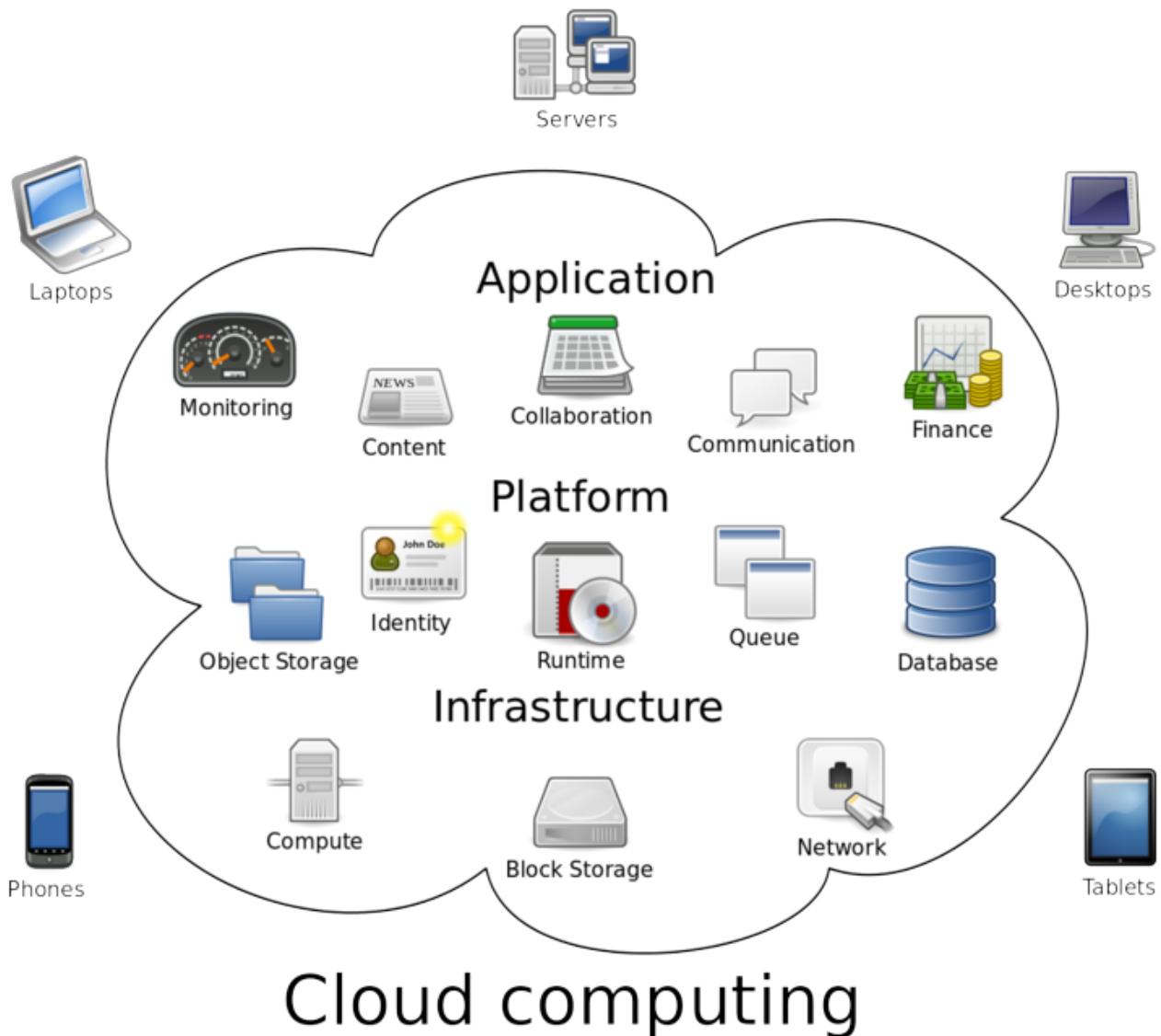# Preparing your Linux to work with the Cloud providers - Installing aws , gcloud, az, oc, cf CLI Cloud access command interfaces

Author : admin

If you're a **sysadmin / developer** whose boss requires a *migration of Stored Data, Database structures or Web Objects* to **Amazon Web Services** / **Google Clourd** or you happen to be a **DevOps Engineer**

you will certainly need to have installed as a minimumum **amazon AWS** and **Google Clouds clients** to
do daily routines and script stuff in **managing cloud resources** without tampering to use the Web GUI
interface.

   Here is **how to install the aws, gcloud, oc, az and cf** next to your **kubernetes client (*kubectl*)** on your
Linux Desktop.

1. Install Google Cloud gcloud (to manage Google Cloud platform resources and developer workflow

   Here is few cmds to run to install **gcloud, gcloud alpha, gcloud beta, gsutil**, and **bq** commands to
manage your Google Cloud from CLI

   a.) On Debian / Ubuntu / Mint or any other deb based distro

> # Create environment variable for correct distribution
> **export CLOUD_SDK_REPO="cloud-sdk-$(lsb_release -c -s)"**

> # Add the Cloud SDK distribution URI as a package source
> # **echo "deb http://packages.cloud.google.com/apt $CLOUD_SDK_REPO main" | sudo tee
> -a /etc/apt/sources.list.d/google-cloud-sdk.list**

Import the Google Cloud Platform public key
$ **sudo curl https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-key add -**

Update the package list and install the Cloud SDK
$ **sudo apt-get update && sudo apt-get install google-cloud-sdk**

b) On CentOS, RHEL, Fedora Linux and other rpm based ones

$ **sudo tee -a /etc/yum.repos.d/google-cloud-sdk.repo /etc/yum.repos.d/azure-cli.repo'**
$ **sudo yum install azure-cli**

$ az login

For [Latest install instructions check Amazon's documentation here](#)

4. Install OpenShift OC CLI tool to access OpenShift Open Source Cloud

Even thought **OpenShift** has its original Redhat produced package binaries, if you're not on RPM distro it is probably
best to install using official latest version from openshift github repo.

As of time of writting this article this is done with:

> # wget https://github.com/openshift/origin/releases/download/v1.5.1/openshift-origin-client-tools-v1.5.1-7b451fc-linux-64bit.tar.gz
> tar –xvf openshift-origin-client-tools-v1.5.1-7b451fc-linux-64bit.tar.gz

> # # mv openshift-origin-client-tools-v1.5.1-7b451fc-linux-64bit oc-tool

> # cd oc-tool
> # echo'export PATH=$HOME/oc-tool:$PATH' >> ~/.bashrc

To test openshift, try to login to OpenShift cloud:

$ **oc login**
Server [https://localhost:8443]: https://128.XX.XX.XX:8443

Latest install instructions on OC here

5. Install Cloud Foundry *cf* CLI Cloud access tool

a) On **Debian / Ubuntu Linux based distributions**, do run:

$ **wget -q -O - https://packages.cloudfoundry.org/debian/cli.cloudfoundry.org.key | sudo apt-key add -**
$ **echo "deb https://packages.cloudfoundry.org/debian stable main" | sudo tee /etc/apt/sources.list.d/cloudfoundry-cli.list**
$ **sudo apt-get update**
$ **sudo apt-get install cf-cli**

b) On **RHEL Enterprise Linux / CentOS and Fedoras**

> $ **sudo wget -O /etc/yum.repos.d/cloudfoundry-cli.repo**
> **https://packages.cloudfoundry.org/fedora/cloudfoundry-cli.repo**
> $ **sudo yum install cf-cli**

For latest install insructions on cf cli check Cloud Foundry's install site

There plenty of other Cloud providers with the number exponentially growing and most have their own custom cli tools to access but as there use is not so common as the 5 ones mentioned below, I've omited 'em. If you're interested to know the complete list of Cloud Providers providing Cloud Services check here.

6. Install Ruby GEMs RHC tools collection

If you have to work with Redhat Cloud Storage / OpenShift you will perhaps want to install also **(RHC) Redhat Collection Tools.**

Assuming that the **Linux system is running an up2date version of ruby** *programming language* **do run:**

```
    root@jeremiah:~# gem install rhc
Fetching: net-ssh-5.0.2.gem (100%)
Successfully installed net-ssh-5.0.2
Fetching: net-ssh-gateway-2.0.0.gem (100%)
Successfully installed net-ssh-gateway-2.0.0
Fetching: net-ssh-multi-1.2.1.gem (100%)
Successfully installed net-ssh-multi-1.2.1
Fetching: minitar-0.7.gem (100%)
The `minitar` executable is no longer bundled with `minitar`. If you are
```

expecting this executable, make sure you also install `minitar-cli`.
Successfully installed minitar-0.7
Fetching: hashie-3.6.0.gem (100%)
Successfully installed hashie-3.6.0
Fetching: powerbar-1.0.18.gem (100%)
Successfully installed powerbar-1.0.18
Fetching: minitar-cli-0.7.gem (100%)
Successfully installed minitar-cli-0.7
Fetching: archive-tar-minitar-0.6.1.gem (100%)
'archive-tar-minitar' has been deprecated; just install 'minitar'.
Successfully installed archive-tar-minitar-0.6.1
Fetching: highline-1.6.21.gem (100%)
Successfully installed highline-1.6.21
Fetching: commander-4.2.1.gem (100%)
Successfully installed commander-4.2.1
Fetching: httpclient-2.6.0.1.gem (100%)
Successfully installed httpclient-2.6.0.1
Fetching: open4-1.3.4.gem (100%)
Successfully installed open4-1.3.4
Fetching: rhc-1.38.7.gem (100%)
==
=====

 If this is your first time installing the RHC tools, please run 'rhc setup'

 ==
======
Successfully installed rhc-1.38.7
Parsing documentation for net-ssh-5.0.2
Installing ri documentation for net-ssh-5.0.2
Parsing documentation for net-ssh-gateway-2.0.0
Installing ri documentation for net-ssh-gateway-2.0.0
Parsing documentation for net-ssh-multi-1.2.1
Installing ri documentation for net-ssh-multi-1.2.1
Parsing documentation for minitar-0.7
Installing ri documentation for minitar-0.7
Parsing documentation for hashie-3.6.0
Installing ri documentation for hashie-3.6.0
Parsing documentation for powerbar-1.0.18
Installing ri documentation for powerbar-1.0.18
Parsing documentation for minitar-cli-0.7
Installing ri documentation for minitar-cli-0.7
Parsing documentation for archive-tar-minitar-0.6.1
Installing ri documentation for archive-tar-minitar-0.6.1

Parsing documentation for highline-1.6.21
Installing ri documentation for highline-1.6.21
Parsing documentation for commander-4.2.1
Installing ri documentation for commander-4.2.1
Parsing documentation for httpclient-2.6.0.1
Installing ri documentation for httpclient-2.6.0.1
Parsing documentation for open4-1.3.4
Installing ri documentation for open4-1.3.4
Parsing documentation for rhc-1.38.7
Installing ri documentation for rhc-1.38.7
Done installing documentation for net-ssh, net-ssh-gateway, net-ssh-multi, minitar, hashie,
powerbar, minitar-cli, archive-tar-minitar, highline, commander, httpclient, open4, rhc after 10
seconds
13 gems installed
root@jeremiah:~#

To start with rhc next do:

```
rhc setup
rhc app create my-app diy-0.1
```

and play with it to install software create services on the Redhat cloud.

Closure

This are just of the few of the numerous tools available and I definitely understand there is much more
to be said on the topic.
If you can remember other **tools tor interesting cloud starting up tips about stuff to do on a fresh
installed Linux PC** to make life easier with **Cloud / PaaS / SaaS / DevOps engineer** please drop a
comment.