

How to install service/application on Ubuntu client with no internet

Obviously the easier straight forward way is to get the connectivity working, and then do the installation. But in some cases, topology wise and usage wise, we might run into a scenario where we want to install some application / service on a linux machine which does not / cannot connect to the internet. Please follow the below steps in that case:

Step 1 - Find the Ubuntu version of the machine on which you want to install

```
root@dummy_client:~# lsb_release -a
No LSB modules are available.
Distributor ID:      Ubuntu
Description:         Ubuntu 16.04.5 LTS
Release:             16.04
Codename:            xenial
root@dummy_client:~#
```

Step 2 - On any other machine which has internet connectivity and runs the same Ubuntu version, download the deb packages needed to install the application you are trying to install. You can get this from the below output in the section where it has the links to the deb packages. In many cases there will be more than one deb to download. In the below eg, there is only one deb file "radvd_2.11-1_amd64.deb" which needs to be downloaded.

```
root@prme-vcqe-c0101:~/radvd_package# apt-get install --print-uris radvd
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libtomcrypt0 libtommath0 linux-headers-4.4.0-197 linux-headers-4.4.0-197-generic
  linux-headers-4.4.0-198 linux-headers-4.4.0-198-generic linux-headers-4.4.0-200
  linux-headers-4.4.0-200-generic linux-headers-4.4.0-201 linux-headers-4.4.0-201-generic
  linux-headers-4.4.0-203 linux-headers-4.4.0-203-generic linux-headers-4.4.0-204
  linux-headers-4.4.0-204-generic linux-headers-4.4.0-206 linux-headers-4.4.0-206-generic
  linux-headers-4.4.0-208 linux-headers-4.4.0-208-generic linux-image-4.4.0-197-generic
  linux-image-4.4.0-198-generic linux-image-4.4.0-200-generic linux-image-4.4.0-201-generic
  linux-image-4.4.0-203-generic linux-image-4.4.0-204-generic linux-image-4.4.0-206-generic
  linux-image-4.4.0-208-generic linux-modules-4.4.0-197-generic linux-modules-4.4.0-198-generic
  linux-modules-4.4.0-200-generic linux-modules-4.4.0-201-generic linux-modules-4.4.0-203-generic
  linux-modules-4.4.0-204-generic linux-modules-4.4.0-206-generic linux-modules-4.4.0-208-generic
  linux-modules-extra-4.4.0-197-generic linux-modules-extra-4.4.0-198-generic
  linux-modules-extra-4.4.0-200-generic linux-modules-extra-4.4.0-201-generic
  linux-modules-extra-4.4.0-203-generic linux-modules-extra-4.4.0-204-generic
  linux-modules-extra-4.4.0-206-generic linux-modules-extra-4.4.0-208-generic timelimit
Use 'apt autoremove' to remove them.
The following NEW packages will be installed:
  radvd
0 upgraded, 1 newly installed, 0 to remove and 88 not upgraded.
Need to get 59.1 kB of archives.
After this operation, 204 kB of additional disk space will be used.
'http://us.archive.ubuntu.com/ubuntu/pool/main/r/radvd/radvd_2.11-1_amd64.deb' radvd_1%3a2.11-1_amd64.deb 59068
MD5Sum:e49a97bab7217ace0b7e3a66e6a64374 <=====
root@prme-vcqe-c0101:~/radvd_package#
```

Step 3 - Download the deb packages on the Ubuntu which has internet connectivity

```

root@prme-vcqe-c0101:~/radvd_package# wget http://us.archive.ubuntu.com/ubuntu/pool/main/r/radvd/radvd_2.11-1_amd64.deb
--2023-07-26 17:48:48-- http://91.189.91.82/ubuntu/pool/main/r/radvd/radvd_2.11-1_amd64.deb
Connecting to 91.189.91.82:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 59068 (58K) [application/vnd.debian.binary-package]
Saving to: 'radvd_2.11-1_amd64.deb'

radvd_2.11-1_amd64.deb      100%[=====>]  57.68K   173KB/s   in 0.3s

2023-07-26 17:48:49 (173 KB/s) - 'radvd_2.11-1_amd64.deb' saved [59068/59068]

root@prme-vcqe-c0101:~/radvd_package#

```

Step 4 - Copy the deb file(s) to the location "/var/cache/apt/archives/" on the machine that you want to install

```

root@prme-vcqe-c0104:~# scp radvd_2.11-1_amd64.deb root@192.168.10.192:/var/cache/apt/archives/
root@192.168.10.192's password:
radvd_2.11-1_amd64.deb                                100%   58KB  48.4MB/s   00:00
root@prme-vcqe-c0104:~#

```

Step 5 - Install the application on the machine

```

root@dummy_client:~# apt-get install radvd
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  grub-pc-bin libc6-i386
Use 'apt autoremove' to remove them.
The following NEW packages will be installed:
  radvd
0 upgraded, 1 newly installed, 0 to remove and 114 not upgraded.
Need to get 0 B/59.1 kB of archives.
After this operation, 204 kB of additional disk space will be used.
Selecting previously unselected package radvd.
(Reading database ... 119658 files and directories currently installed.)
Preparing to unpack .../radvd_2.11-1_amd64.deb ...
Unpacking radvd (1:2.11-1) ...
Processing triggers for systemd (229-4ubuntu21.4) ...
Processing triggers for ureadahead (0.100.0-19) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up radvd (1:2.11-1) ...
dpkg-statoverride: warning: --update given but /var/run/radvd does not exist
Processing triggers for systemd (229-4ubuntu21.4) ...
Processing triggers for ureadahead (0.100.0-19) ...
root@dummy_client:~#
root@dummy_client:~# which radvd
/usr/sbin/radvd
root@dummy_client:~#

```