

من از سیستم عامل لینوکس استفاده میکنم. برای نصب پکیج ANTLR در اوبونتو از دو کامند زیر استفاده میکنیم:

```
sudo apt-get install antlr
```

```
pip install antlr4-python3-runtime
```

عکس های مربوط به اجرای این کامند ها در زیر آورده شده است:

```
mohsen@mohsen:~$ sudo apt-get install antlr
[sudo] password for mohsen:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libantlr-java
The following NEW packages will be installed:
  antlr libantlr-java
0 upgraded, 2 newly installed, 0 to remove and 143 not upgraded.
Need to get 454 kB of archives.
After this operation, 532 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 libantlr-java all 2.7.7+dfsg-12 [448 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 antlr all 2.7.7+dfsg-12 [5,146 B]
Fetched 454 kB in 5s (95.6 kB/s)
Selecting previously unselected package libantlr-java.
dpkg: warning: files list file for package 'protonvpn-stable-release' missing; assuming package has no files currently installed
(Reading database ... 254109 files and directories currently installed.)
Preparing to unpack .../libantlr-java_2.7.7+dfsg-12_all.deb ...
Unpacking libantlr-java (2.7.7+dfsg-12) ...
Selecting previously unselected package antlr.
Preparing to unpack .../antlr_2.7.7+dfsg-12_all.deb ...
Unpacking antlr (2.7.7+dfsg-12) ...
Setting up libantlr-java (2.7.7+dfsg-12) ...
Setting up antlr (2.7.7+dfsg-12) ...
Processing triggers for man-db (2.10.2-1) ...
mohsen@mohsen:~$ antlr4
ANTLR Parser Generator Version 4.7.2
-o ____ specify output directory where all output is generated
-lib ____ specify location of grammars, tokens files
-atn ____ generate rule augmented transition network diagrams
-encoding ____ specify grammar file encoding; e.g., euc-jp
-message-format ____ specify output style for messages in antlr, gnu, vs2005
-long-messages ____ show exception details when available for errors and warnings
-listener ____ generate parse tree listener (default)
-no-listener ____ don't generate parse tree listener
-visitor ____ generate parse tree visitor
-no-visitor ____ don't generate parse tree visitor (default)
-package ____ specify a package/namespace for the generated code
-depend ____ generate file dependencies
-D<option>=value set/override a grammar-level option
-Werror ____ treat warnings as errors
-XdbgST ____ launch StringTemplate visualizer on generated code
-XdbgSTWait ____ wait for STViz to close before continuing
-Xforce-atn ____ use the ATN simulator for all predictions
-Xlog ____ dump lots of logging info to antlr-timestamp.log
-Xexact-output-dir ____ all output goes into -o dir regardless of paths/package
mohsen@mohsen:~$
```

برای نصب grun نیز از کامند زیر استفاده میکنیم:

```
sudo apt install grun
```

عکس هاس مربوط به اجرای این کامند در زیر آورده شده است:

```
mohsen@mohsen:~$ sudo apt install grun
[sudo] password for mohsen:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
grun is already the newest version (0.9.3+git20200303-1).
0 upgraded, 0 newly installed, 0 to remove and 143 not upgraded.
mohsen@mohsen:~$
```

```
mohsen@mohsen:~$ sudo apt install grun
[sudo] password for mohsen:
Reading package lists...
Building dependency tree.
Reading state information...
grun is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
mohsen@mohsen:~$ grun
```

