**git_comments:**

**git_commits:**

1. **summary:** [C++] Update README for linting (#1515)
   **message:** [C++] Update README for linting (#1515) * [C++] Update README for linting There are hidden gotchas when trying to move the linting Makefile targets, mention them. * Mention the LLVM releases page

**github_issues:**

1. **title:** clang-format not found on Ubuntu 16.04
   **body:** I am on Ubuntu 16.04 and have clang-format installed: ``` $ which clang-format /usr/bin/clang-format $ which clang-format-3.8 /usr/bin/clang-format-3.8 ``` Yet for some reason cmake doesn't find it: ``` clang-tidy found at /usr/bin/clang-tidy-3.8 clang-format not found infer not found [etc.] ``` and consequently the `lint` target fails executing. I'm probably missing something trivial here.
2. **title:** clang-format not found on Ubuntu 16.04
   **body:** I am on Ubuntu 16.04 and have clang-format installed: ``` $ which clang-format /usr/bin/clang-format $ which clang-format-3.8 /usr/bin/clang-format-3.8 ``` Yet for some reason cmake doesn't find it: ``` clang-tidy found at /usr/bin/clang-tidy-3.8 clang-format not found infer not found [etc.] ``` and consequently the `lint` target fails executing. I'm probably missing something trivial here.
   **label:** documentation
3. **title:** clang-format not found on Ubuntu 16.04
   **body:** I am on Ubuntu 16.04 and have clang-format installed: ``` $ which clang-format /usr/bin/clang-format $ which clang-format-3.8 /usr/bin/clang-format-3.8 ``` Yet for some reason cmake doesn't find it: ``` clang-tidy found at /usr/bin/clang-tidy-3.8 clang-format not found infer not found [etc.] ``` and consequently the `lint` target fails executing. I'm probably missing something trivial here.
4. **title:** clang-format not found on Ubuntu 16.04
   **body:** I am on Ubuntu 16.04 and have clang-format installed: ``` $ which clang-format /usr/bin/clang-format $ which clang-format-3.8 /usr/bin/clang-format-3.8 ``` Yet for some reason cmake doesn't find it: ``` clang-tidy found at /usr/bin/clang-tidy-3.8 clang-format not found infer not found [etc.] ``` and consequently the `lint` target fails executing. I'm probably missing something trivial here.
5. **title:** clang-format not found on Ubuntu 16.04
   **body:** I am on Ubuntu 16.04 and have clang-format installed: ``` $ which clang-format /usr/bin/clang-format $ which clang-format-3.8 /usr/bin/clang-format-3.8 ``` Yet for some reason cmake doesn't find it: ``` clang-tidy found at /usr/bin/clang-tidy-3.8 clang-format not found infer not found [etc.] ``` and consequently the `lint` target fails executing. I'm probably missing something trivial here.
6. **title:** clang-format not found on Ubuntu 16.04
   **body:** I am on Ubuntu 16.04 and have clang-format installed: ``` $ which clang-format /usr/bin/clang-format $ which clang-format-3.8 /usr/bin/clang-format-3.8 ``` Yet for some reason cmake doesn't find it: ``` clang-tidy found at /usr/bin/clang-tidy-3.8 clang-format not found infer not found [etc.] ``` and consequently the `lint` target fails executing. I'm probably missing something trivial here.
7. **title:** clang-format not found on Ubuntu 16.04
   **body:** I am on Ubuntu 16.04 and have clang-format installed: ``` $ which clang-format /usr/bin/clang-format $ which clang-format-3.8 /usr/bin/clang-format-3.8 ``` Yet for some reason cmake doesn't find it: ``` clang-tidy found at /usr/bin/clang-tidy-3.8 clang-format not found infer not found [etc.] ``` and consequently the `lint` target fails executing. I'm probably missing something trivial here.

**github_issues_comments:**

1. We are pinned to clang-format-4.0 because each version formats the code slightly differently (which is very annoying). I recommend installing LLVM 4.0 from http://apt.llvm.org/
2. **body:** This needs to be documented in the README since it's not obvious unless you look at the CMake files or have been following PRs the last few months
   **label:** documentation
3. Thanks. That works better now (`make check-format` and `make format` work ok). Yet, the `lint` target fails for some unknown reason: ``` $ LANG=C make lint CMakeFiles/lint.dir/build.make:57: recipe for target 'CMakeFiles/lint' failed make[3]: *** [CMakeFiles/lint] Error 1 CMakeFiles/Makefile2:251: recipe

for target 'CMakeFiles/lint.dir/all' failed make[2]: *** [CMakeFiles/lint.dir/all] Error 2 CMakeFiles/Makefile2:258: recipe for target 'CMakeFiles/lint.dir/rule' failed make[1]: *** [CMakeFiles/lint.dir/rule] Error 2 Makefile:240: recipe for target 'lint' failed make: *** [lint] Error 2 ```

4. The cpplint that is shipped with the repo (https://github.com/apache/arrow/blob/master/cpp/build-support/cpplint.py) does not work on Python 3. If you `pip install cpplint` and then re-run the CMake build it will pick up the cpplint executable from your environment rather than using the script in the repo

5. I see, thanks!

**github_pulls:**

1. **title:** [C++] Update README for linting
   **body:** There are hidden gotchas when trying to run the linting Makefile targets, mention them. See issue #1514 (I'm not sure it's required to open a JIRA entry for such a trivial issue?).

**github_pulls_comments:**

1. Note we could also update `cpplint` to the newer py3-compatible forked version from https://github.com/cpplint/cpplint.

**github_pulls_reviews:**

1. Thanks for adding this! Maybe also add http://releases.llvm.org/download.html which has binaries for Windows, macOS, and other Linuxes
2. Done.

**jira_issues:**

**jira_issues_comments:**