QAMP Spring 2022

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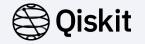
Mentor: Matthew Treinish





Qiskit-neko

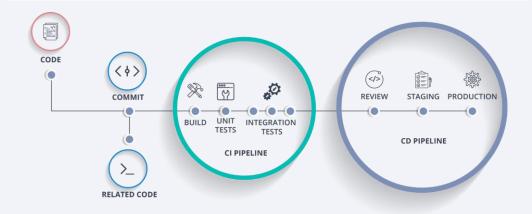
- New effort to add a proper integration test suite to the overall qiskit project.
- Designed to be run in CI to ensure that a proposed change to any qiskit project doesn't break backwards compatibility or break an interface that another qiskit project is currently using.





This repository contains integration tests for Qiskit. These tests are used for primarily for two purposes as backwards compatibility testing for Qiskit to validate that changes proposed to any Qiskit project do not break functionality from previous release and to validate that functionality works as expected with different providers. A provider in Qiskit is a package that provides backend objects that provide an interface to Quantum hardware or a simulator.

Installing qiskit-neko



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The Project

- Expand qiskit-neko testing area: testing from: mentor mentee needed type: code #10 opened on Feb 8 by mtreinish
- Add tests for different sub sections of qiskit such as circuits, nature, machine learning and visualizations.
- Start running qiskit-neko in CI with proper integration with qiskit





Progress

- Understood the code base of qiskitneko along with its working and future directions.
- Narrowed down on the subsection and a sample tutorial for reference for which the tests will be added.
- Brushing up unittest and CI concepts from relevant documentations.

Thank you!

