**NetManager: Network Configuration & Management Tool:**

**James White - 10590453**

The continued growth in IT and the increase in users has led to larger and more complex networks making the management of these systems a challenge for networking professionals. Software defined networking separates the data and control plane creating one centralised controller for the network which allows network devices to be configured programmatically. SDN can reduce configuration times and lead to more efficient network management and monitoring.

NetManager aims to move networking professionals away from timely command line configurations by using software defined networking (SDN) to automatically push and pull configuration from multiple devices within a network topology. The application utilises the Netmiko Python library and the Django web framework to send and retrieve configuration from each network device.