## **Assignment 5.1: Configure Hot Standby Router Protocol for Fault Tolerance**

## Keegan Heaton

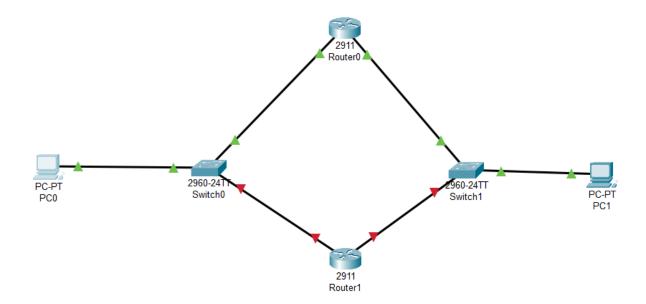
University of Advancing Technology

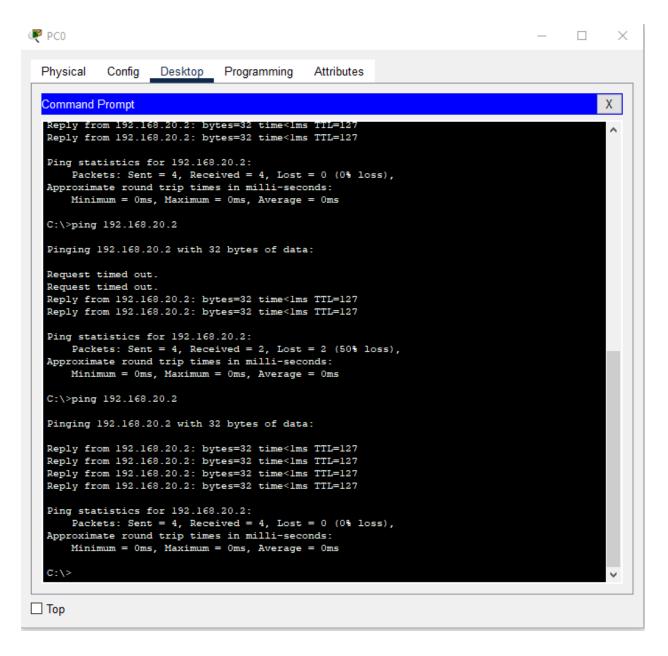
NTW103 - Fundamentals of Network Engineering II - OCT23113

Jeremy Bunce

11/28/2023

**Assignment 5.1: Configure Hot Standby Router Protocol for Fault Tolerance** 





A virtual (standby) interface is a logical interface that provides redundancy for a physical interface, ensuring a connection even if the physical interface stops operation. Fault tolerance, the capability of a system to continue operating despite a failure, is often achieved through redundancy like multiple routers or links. Hot Standby Router Protocol (HSRP) prevents risk by selecting an active router to standby and forward traffic so other

routers can take over if an active router fails, reducing disruption and creating better load balancing.