Create a Topology

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Since not everyone has the Cisco IOS, we won't use the complex routers in this lab. Additionally, the operation of these routers is beyond the scope of Network+, but you will find GNS-3 essentially if you are going to work towards the CCNA (Cisco Certified Network Associate) certification later in your career.

For our simple topology, we are going to create a simple network of two computers, directly connected to each other using a crossover ethernet cable.

Step 1: Open GNS 3 and create a Project Workspace (assign a saved name to the environment).

Step 2: Click on the computer icon on the left bar, then select VPCS and drag it into the workspace to create PC1. Do this again for PC2.

Step 3: Click on the network cord and connect the two machines together.

Step 4: Click the "Start/Resume" button on the top bar. It looks like a Play button.

Step 5: Click on the >\_ button to open the command prompt on both machines.

Step 6: On the PC1 machine, type "IP 10.10.10.10" to set it's IP.  On PC2, use 10.10.10.20.

Step 7: Ping from one machine to the other ("ping 10.10.10.20" on PC1, for example).

Step 8: Test the traceroute function from one machine to the other ("trace 10.10.10.20 on PC1, for example).