

UNIVERSE Services & Ports

To be able to use all of UNIVERSE's features and services some ports need to be open in order for other devices to communicate with UNIVERSE.

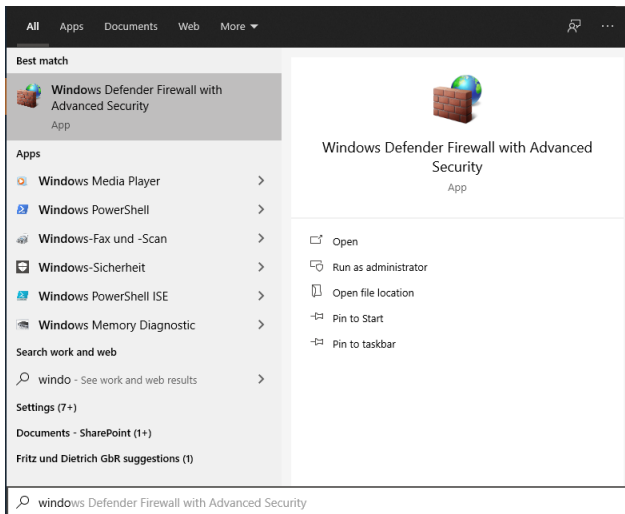
UNIVERSE offers the following services:

- Satellites:
 - o TCP 15540
 - o UDP 15548
 - o UDP 15549
- Web Interface
 - o TCP 8090
- Remote
 - o UDP 7878

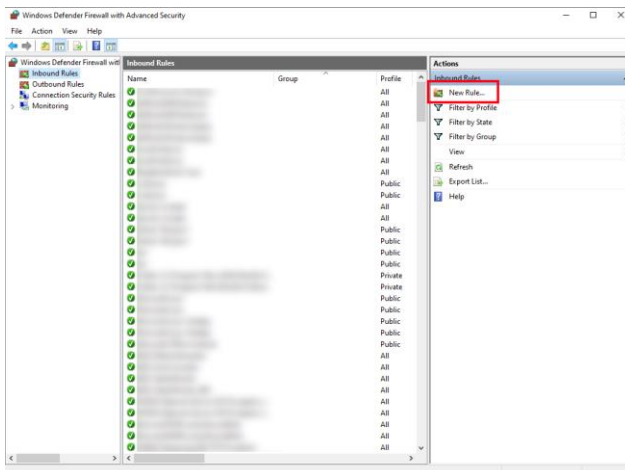
In addition, you may need to open ports for the devices and connectors you are using in your project.

Opening a port in the Windows defender Firewall is done by adding a rule to the Inbound Rule:

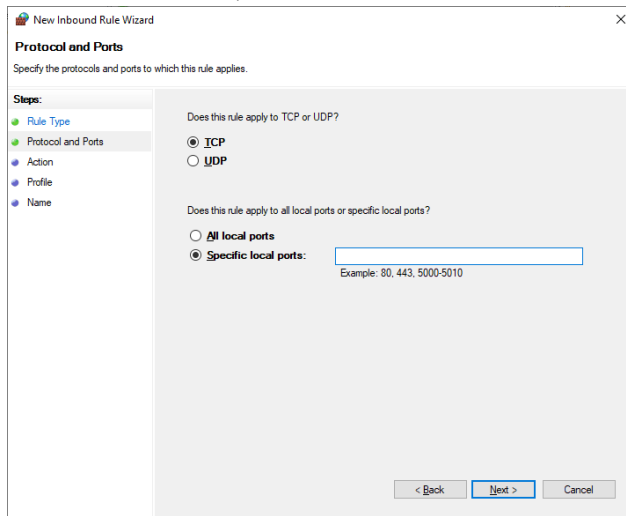
1. Search for "Windows Defender Firewall with advanced security" in the start menu.



2. Go to the section "Inbound Rules" and create a new rule.

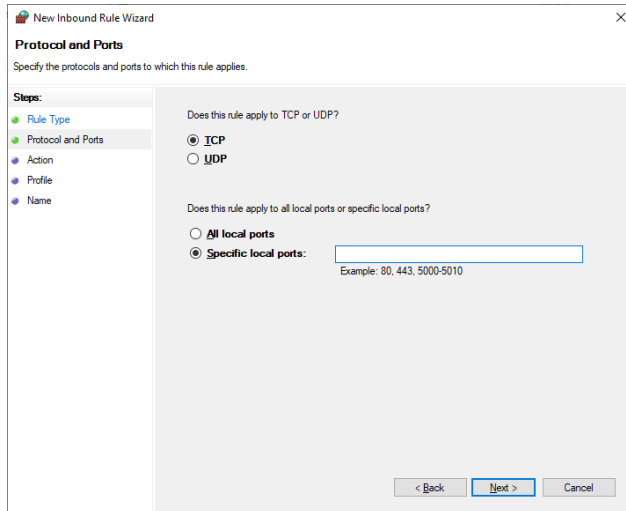


3. Select "Port" and press "Next"



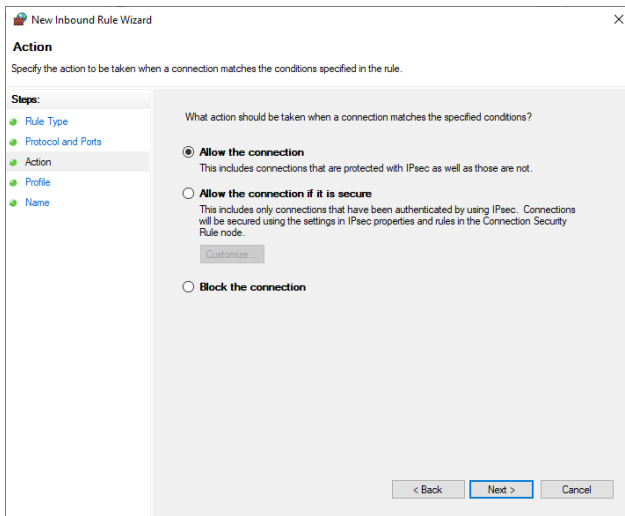
The screenshot shows the 'New Inbound Rule Wizard' dialog box. The title bar reads 'New Inbound Rule Wizard'. Below the title bar, the section is titled 'Protocol and Ports' with the instruction 'Specify the protocols and ports to which this rule applies.' On the left, a 'Steps:' list includes 'Rule Type', 'Protocol and Ports', 'Action', 'Profile', and 'Name'. The 'Protocol and Ports' step is currently selected. The main area contains two questions: 'Does this rule apply to TCP or UDP?' with radio buttons for 'TCP' (selected) and 'UDP'; and 'Does this rule apply to all local ports or specific local ports?' with radio buttons for 'All local ports' and 'Specific local ports:' (selected). Below the 'Specific local ports:' radio button is a text input field with the example text 'Example: 80, 443, 5000-5010'. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

4. Select the protocol and enter the specific port you're the service you are adding and press "Next"



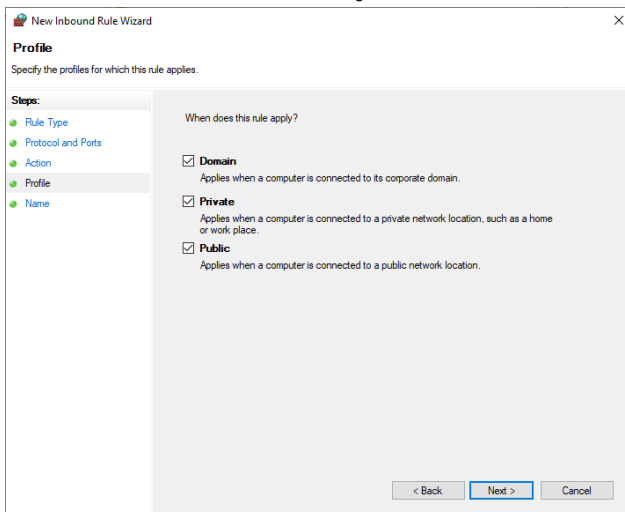
This screenshot is identical to the previous one, showing the 'New Inbound Rule Wizard' dialog box. In this step, the 'Next >' button is highlighted with a blue border, indicating that the user is ready to proceed to the next step in the wizard.

5. Select “Allow the connection” and select “Next”



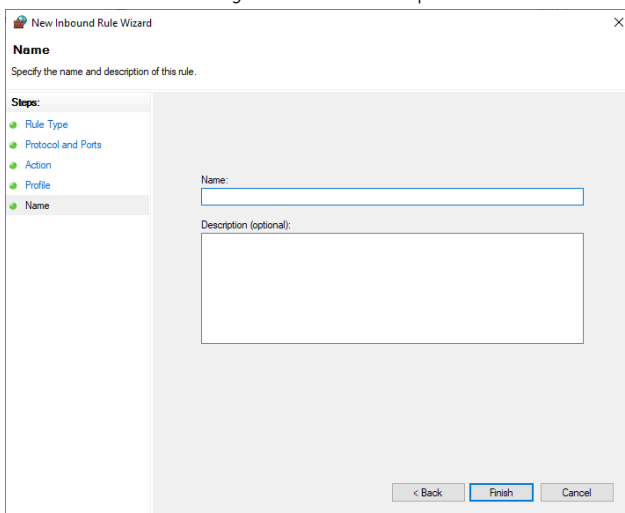
The screenshot shows the 'New Inbound Rule Wizard' dialog box at the 'Action' step. The title bar reads 'New Inbound Rule Wizard'. Below the title, it says 'Action' and 'Specify the action to be taken when a connection matches the conditions specified in the rule.' On the left, a 'Steps:' list includes 'Rule Type', 'Protocol and Ports', 'Action', 'Profile', and 'Name', with 'Action' selected. The main area asks 'What action should be taken when a connection matches the specified conditions?' and offers three radio button options: 'Allow the connection' (selected), 'Allow the connection if it is secure', and 'Block the connection'. A 'Customize...' button is visible under the 'Allow the connection if it is secure' option. At the bottom, there are '< Back', 'Next >', and 'Cancel' buttons.

6. Select the zones for which you want to allow access and press “Next”



The screenshot shows the 'New Inbound Rule Wizard' dialog box at the 'Profile' step. The title bar reads 'New Inbound Rule Wizard'. Below the title, it says 'Profile' and 'Specify the profiles for which this rule applies.' On the left, a 'Steps:' list includes 'Rule Type', 'Protocol and Ports', 'Action', 'Profile', and 'Name', with 'Profile' selected. The main area asks 'When does this rule apply?' and offers three checked checkbox options: 'Domain' (Applies when a computer is connected to its corporate domain.), 'Private' (Applies when a computer is connected to a private network location, such as a home or work place.), and 'Public' (Applies when a computer is connected to a public network location.). At the bottom, there are '< Back', 'Next >', and 'Cancel' buttons.

7. Enter a name for your rule and press “Finish”



The screenshot shows the 'New Inbound Rule Wizard' dialog box at the 'Name' step. The title bar reads 'New Inbound Rule Wizard'. Below the title, it says 'Name' and 'Specify the name and description of this rule.' On the left, a 'Steps:' list includes 'Rule Type', 'Protocol and Ports', 'Action', 'Profile', and 'Name', with 'Name' selected. The main area has a 'Name:' text box and a 'Description (optional):' text area. At the bottom, there are '< Back', 'Finish', and 'Cancel' buttons.

8. Repeat the process for all the UNIVERSE services and the port of the devices and connectors in your project.