

Recommended Ignition OPC-UA Server Settings for *groov*

This technical note is intended for *groov* customers who want to use the Ignition® OPC-UA tag server by Inductive Automation®. Follow the steps below to use Opto 22's recommended settings for successful communication with *groov*.

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Configuring Ignition

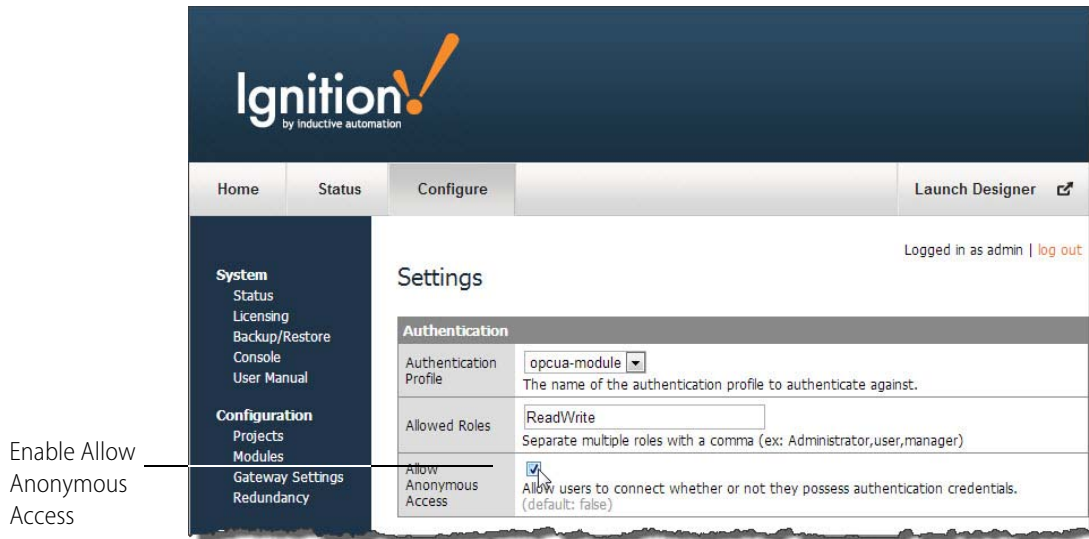
1. After installing Ignition, open the Ignition webpage.
2. Click the Configure tab.



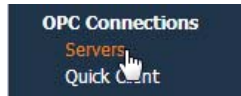
3. Under OPC-UA in the left panel, click Settings.



- In the OPC-UA Settings, make sure that Allow Anonymous Access is checked.



- Under OPC-UA Connections in the left panel, click Servers.



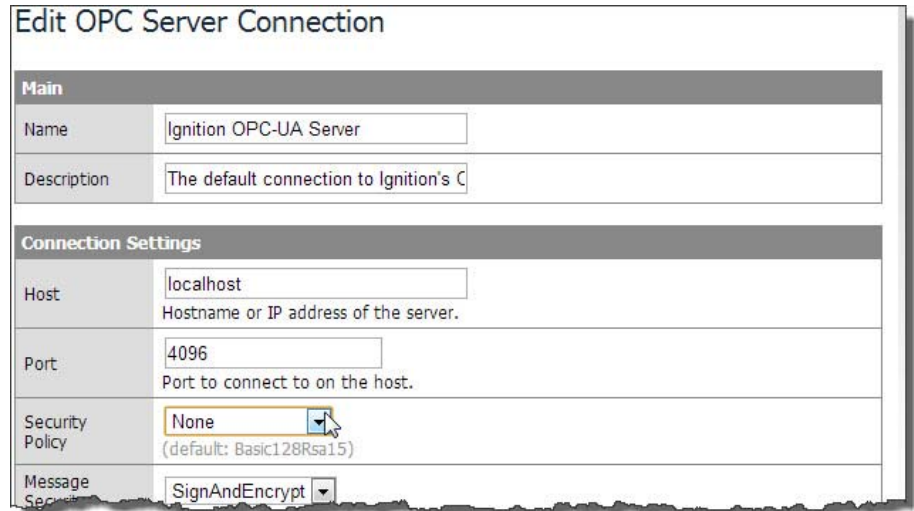
- Next to the Ignition OPC-UA Server you are using, click "edit."

OPC Server Connections

Name	Type	Description	Status
Ignition OPC-UA Server	OPC-UA Connection	The default connection to Ignition's OPC-UA server.	Connected

An 'edit' button with a mouse cursor is positioned to the right of the 'Connected' status in the table row.

7. Change the Security Policy to None.



Edit OPC Server Connection	
Main	
Name	Ignition OPC-UA Server
Description	The default connection to Ignition's C
Connection Settings	
Host	localhost Hostname or IP address of the server.
Port	4096 Port to connect to on the host.
Security Policy	None (default: Basic128Rsa15)
Message Security	SignAndEncrypt

8. Exit the Ignition webpage.

Configuring the Windows Firewall

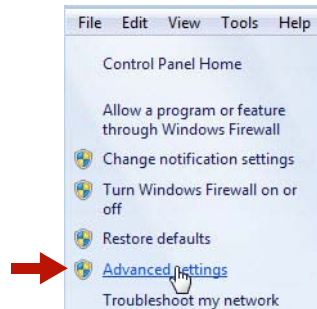
If you are using a GROOV-AT1 or running *groov* Server for Windows on a different computer, inbound traffic to the Ignition OPC-UA server needs to be able get through the firewall on the TCP/IP service port *groov* will use to access this server. This requires adding an Inbound Rule to the Windows Firewall for the Ignition service port on the computer where Ignition is installed.

NOTE: If you are using groov Server for Windows and it is installed on the same computer as the OPC-UA server, you do not need to configure the Windows Firewall as described here.

The following instructions describe how to add in Windows 7 the Inbound Rule for port 4096, Ignition's default.

1. After you have successfully installed the Ignition OPC-UA server, open the Windows Control Panel.
2. If icons are displayed in the Control Panel, click Windows Firewall. If categories are displayed in the Control Panel, click System and Security and then click Windows Firewall.

3. In the left panel, click Advanced settings.

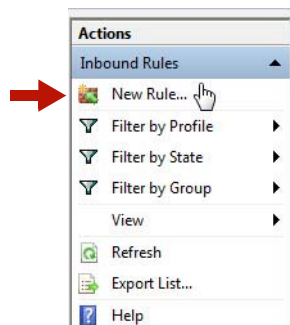


The Windows Firewall with Advanced Security dialog box opens.

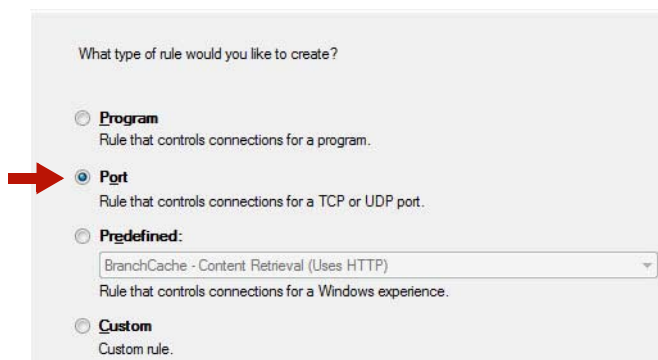
4. In the left panel, click Inbound Rules.



5. In the right panel, click New Rule.



6. For Rule Type, select Port. Click Next.



7. For Protocol and Ports, select TCP. Then select Specific local ports and enter 4096 (the default Ignition port). Click Next.

Does this rule apply to TCP or UDP?

TCP
 UDP

Does this rule apply to all local ports or specific local ports?

All local ports
 Specific local ports:
Example: 80, 443, 5000-5010

A red arrow points to the "Specific local ports" radio button.

8. For Action, select "Allow the connection." Click Next.

What action should be taken when a connection matches the specified conditions?

Allow the connection
This includes connections that are protected with IPsec as well as those are not.

Allow the connection if it is secure
This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.

Block the connection

A red arrow points to the "Allow the connection" radio button.

9. For Profile, select Domain and Private. Click Next.

When does this rule apply?

Domain
Applies when a computer is connected to its corporate domain.

Private
Applies when a computer is connected to a private network location.

Public
Applies when a computer is connected to a public network location.

10. For Name, enter a descriptive name such as "Ignition OPC-UA Server."
11. Click Finish.
12. Exit the Windows Firewall and Control Panel dialog boxes.