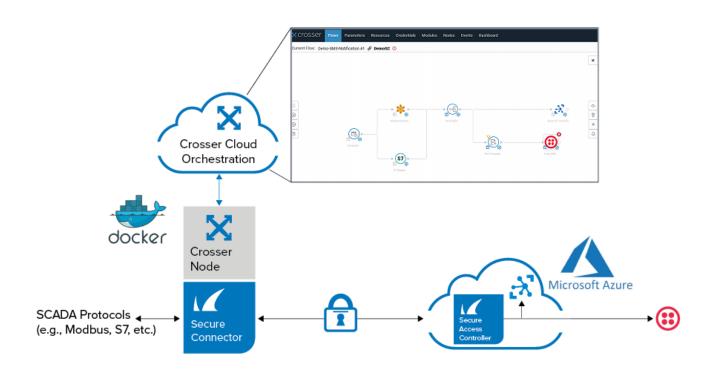


How to Integrate Crosser Edge Analytics with the Barracuda Secure Connector

https://campus.barracuda.com/doc/96025952/

The Barracuda Secure Connector allows you to run <u>Crosser IoT Edge Streaming Analytics</u> in a container. The data collected at the edge can be aggregated, combined, and prefiltered to reduce the cost for storage and intermittent transmission, and to enable effective processing of useful data in an on-premises or cloud analytics platform. When utilizing Crosser, users obtain scalable connectivity to accommodate large and dispersed networks of industrial and IoT devices.

Barracuda Crosser Integration Architecture



For the deployment of Crosser IoT Edge Streaming Analytics on the Secure Connector, you can use one of the following options:

- Option 1: As Docker Container by predefined LXC script.
- Option 2: Via Azure IoT Edge

Deployment as Docker Container by Predefined LXC Script



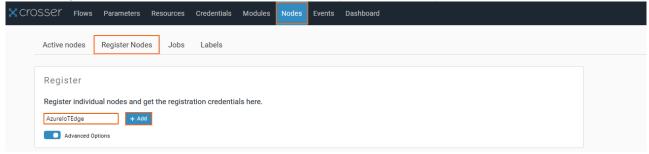
Set the custom variables in the <u>crosser_container.tgz</u> file, add the Crosser Node on the platform, and install a Secure Connector container.

Step 1. Adjust the Custom Variables

1. In the <u>crosser_container.tgz</u> file, modify the custom variables in the *doit* file with your information. The information is available within your Crosser portal https://cloud.crosser.io.

Step 2. Register the Crosser Node

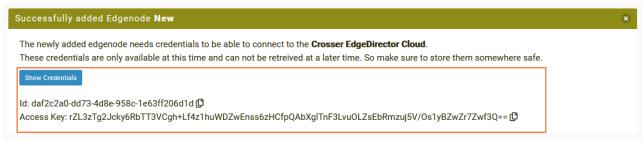
- 1. Log into the Crosser Portal.
- 2. Go to **Nodes** and click the **Register Nodes** tab.
- 3. In the Register field, enter the name of the node you wish to register, and click ADD.



A confirmation window opens, stating that you have successfully added the node.

4. Click **Show Credentials** to display ID and access key of the node.





5. Copy the credentials to a *doit* file and compress the *doit* file including all deb packages to <name> container.tgz.

To simplify the deployment on a large-scale basis, use the global key in order to have the same container that can be used to deploy a Crosser node to a large number of containers. For more information on containers, see <u>Secure Connector Container</u>.

Step 3. Install a Container via Firmware Update in Barracuda Firewall Admin

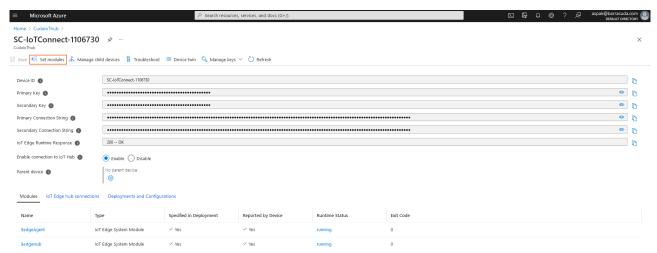
Containers are installed just like Secure Connector firmware updates. Copy the container.tgz file to the Control Center and distribute it just like a firmware update. When the archive is on the Secure Connector, the deb packages are installed, and the installation scripts executed. For more information, see <u>Secure Connector Firmware Updates</u>.

Deployment via Azure IoT Edge

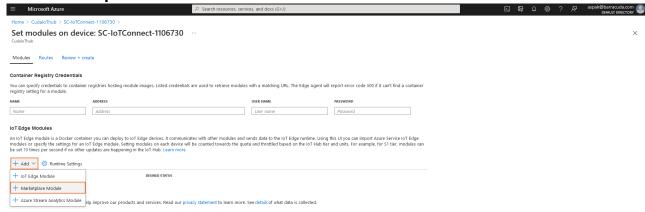
Configure Microsoft IoT Edge on the Secure Connector, and configure Crosser IoT Edge Streaming Analytics as an IoT Edge module. For details on how to enable Azure IoT Edge runtime on a Secure Connector, see How to Enable Microsoft IoT Edge and Docker on a Secure Connector.

- 1. Log into the Azure portal: https://portal.azure.com
- 2. Enable IoT Edge on the Barracuda Secure Connector. For more information, see **Configure Azure IoT Edge** in How to Enable Microsoft IoT Edge and Docker on a Secure Connector.
- 3. In the Azure portal, navigate to the IoT Edge device that has been linked with your Secure Connector.
- 4. Click the **Set modules** tab.

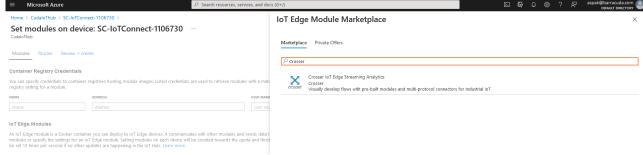




- 5. In the **IoT Edge Modules** section, click **ADD**.
- 6. Select Marketplace Module.



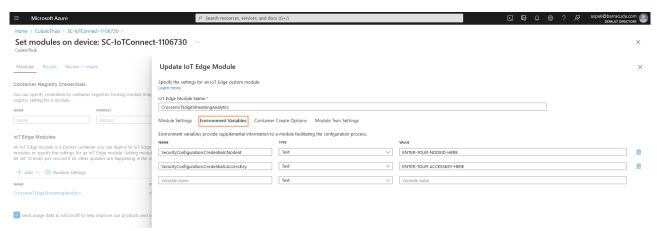
Search for Crosser and select Crosser IoT Edge Streaming Analytics.



- 8. Open the **Environmental Variables** tab.
- 9. Configure the variables using the information provided during the Crosser Node registration in the step 2.4.

Barracuda CloudGen Firewall





10. Review your information and create the module.

The deployment should be completed within a couple of minutes.

For more information and use cases on Crosser and Barracuda, watch this Video.

Barracuda CloudGen Firewall



Figures

- 1. c_overview.png
- 2. c_reg.png
- 3. c_cred.png
- 4. c_conn.png
- 5. c mod.png
- 6. c_mp.png
- 7. c_var.png

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