

# Linux Historian Devices

## Running TServer in Linux

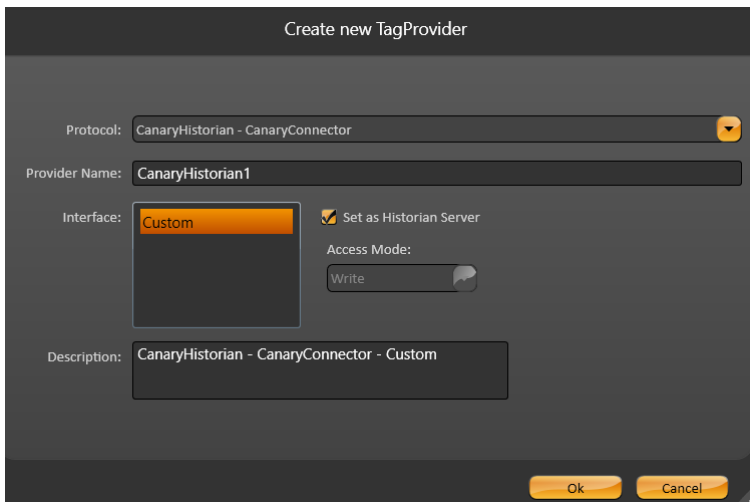
Before doing the setting of this document you should be running TServer in Linux, you can do this in the following document:

[How to Deploy Projects and set FactoryStudio TServer as Service in Linux](#)

## Canary Historian Settings

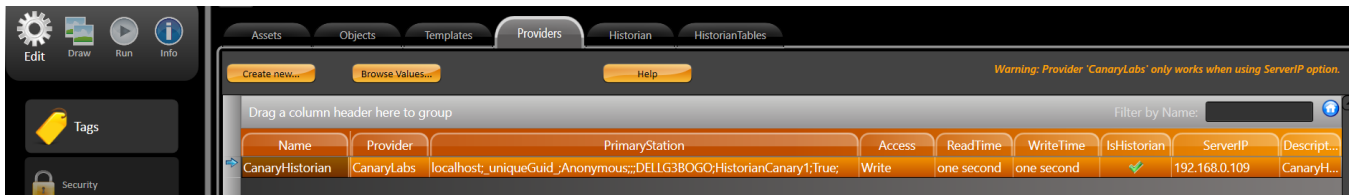
 Do the setting in "Appendix A" first then come back here.

Then go in Edit > Tags > Providers and create a new TagProvider and "Set as Historian Server":



And do the following settings:

- In PrimaryStation instead of "HistorianCanary1" you choose the name you want to create the Historian database in Canary
- In ServerIP you put the computer IP, which is running TWebServer



Then go in Edit > Tags > Historian and create a new Historian table:

### Historian Table Settings

Target: TagProvider.CanaryHistorian

Table name: TableCanary15

Auto create: ☒ Save on change: ☒

Trigger:

Time Deadband: 00:00:01.000

Life Time:  days

Save Quality: ☐ Normalized: ☐

Value Columns Type: Single (4 bytes)

GetSamplesMethod:

Description: TimeSpan :one second LifeTime :31 days (AutoCreate)

Ok
Cancel

Add the tag and change the HistorianTable column to the one you have just created

Assets
Objects
Templates
Providers
Historian
HistorianTables

Historian: SQLite Database

Historian Tables: TableCanary15 New Del Config

Description: TimeSpan :one second LifeTime :31 days (AutoCreate)

Drag a column header here to group Filter by TagName:

TagName	DeadBand	Deviation	RateOfChange	DeviationDeadBandType	HistorianTable
tag1				Absolute	TableCanary15

Now you run the project in Run > Startup, and open the property watch

Edit
Draw
Run
Info

**Startup**

**Startup Settings**

UserName: Guest Startup computer: 192.168.239.128:3100

Password:

Main Port: 3101

**Run Local Diagnostics Tools**

Module Information

Property Watch

Trace Window

**Run Modules**

☒ Alarms ☒ Devices ☒ Reports

☒ Datasets ☒ Historian ☒ Displays

☒ Scripts

Hot Start
Run Startup

Status: Running project:ProjectCanaryHistorian, Connected

☒ Enable online configuration

Then you write something in tag1 in PropertyWatch, and the Historian Database will appear in Canary > Historian

Canary Administrator

Home
Historian

← →
HISTORIAN

### HISTORIAN

DataSet Count: 13  
Licensed Tags: 35  
Updates/Sec: 19,2  
Readers: 0  
Writers: 36  
HDB Files: 170  
Offline Files: 0  
C: 6,0 GB Free

Canary1

HistorianCanary1  
Writers: 1  
Updates: 0,0

Home
Historian

← →
HISTORIAN / DATASET: HISTORIANCANARY1 / FILE: HISTORIANCANARY1 20221230 14.HDB2

TAGS

tag1

ROW	TIMESTAMP	VALUE	QUALITY	TYPE
Vector	30/12/2022 14:38:37,629			
1	30/12/2022 14:38:37,6297063	1	<Added> Good (0x2C0)	R8
2	30/12/2022 14:38:38,9227262	3	Good (0xC0)	R8

Follow a video link running Canary Historian:

[https://partners.tatsoft.com/dl/ly612gUQwq/CanaryHistorianLinux.mp4\\_](https://partners.tatsoft.com/dl/ly612gUQwq/CanaryHistorianLinux.mp4_)

## Canary Devices Settings

Do the setting in "Appendix A" first then come back here.

Create a CanaryHistorian channel and set the "InitialState" column as "Reserved", it will make the channel does not start running with the project, because we need to add some new parameters to run Canary remotely.

Edit
Draw
Run
Info

Tags
Security
Devices

Channels
Nodes
Points
AccessTypes

Installed Protocols: CanaryHistorian - CanaryConnector
Channel: Create new...

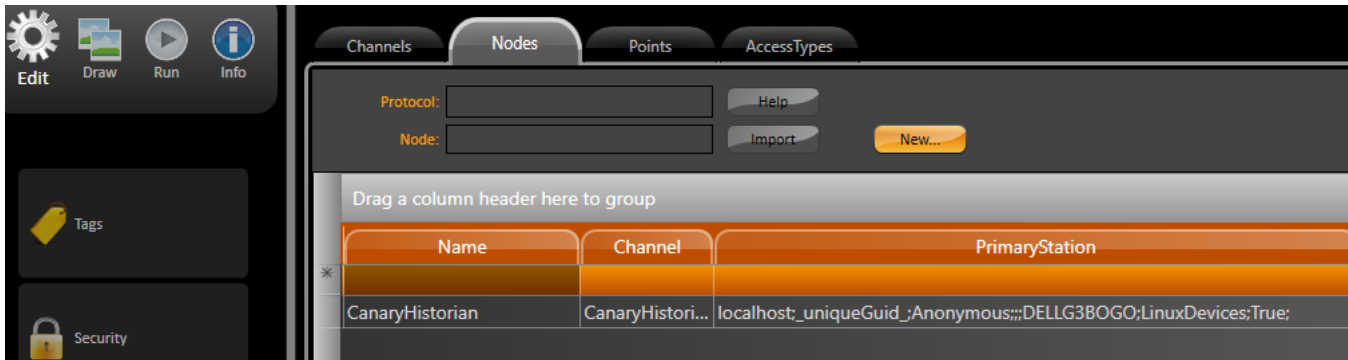
Warning: 'CanaryLabs' only works while running remotely on Windows Desktop.

Drag a column header here to group
Filter by Name:

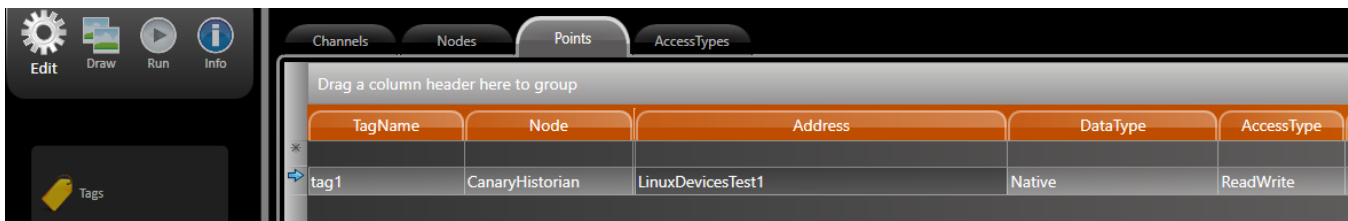
Name	Protocol	ProtocolOptions	Interface	Settings	Timeout	InitialState	RemoteSettings	Description
CanaryHistorian	CanaryLabs	TagPropertiesComm...	Custom			Reserved		CanaryHistorian - CanaryConnector

And do the following settings in Nodes:

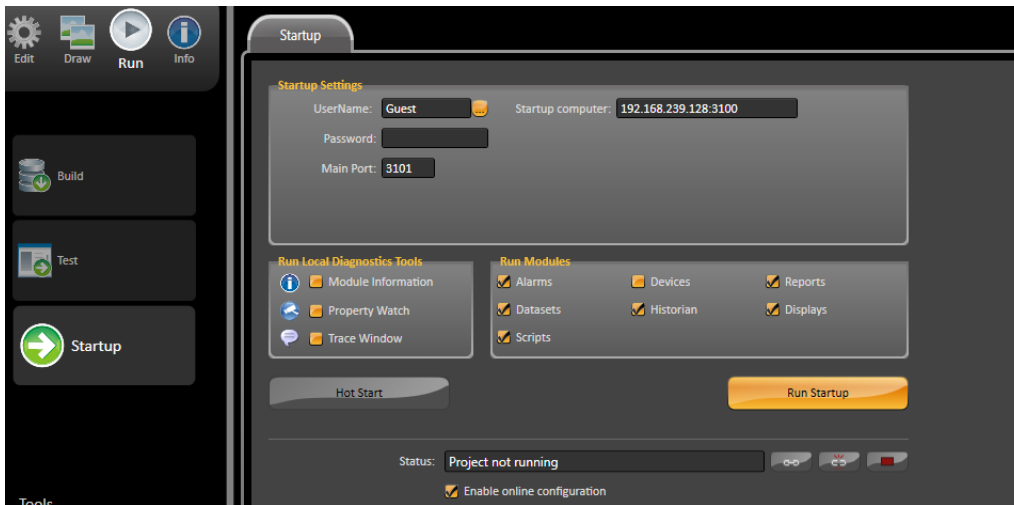
- In PrimaryStation instead of "LinuxDevices" you choose the name you want to create the database in Canary
- In PrimaryStation instead of "DELLG3BOGO" select your computer name



In Points > Address select the address name you want to appear in Canary



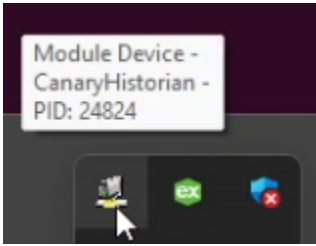
Finally, you go in Run > Startup, and "Run Startup" like this with Devices disable



Open the command prompt and run this following line, remember to replace the infos required.

```
"C:\Program Files (x86)\Tatsoft\FactoryStudio\fs-9.2\TRunModule.exe" /module:t.modules.device /channel:
<ChannelName> /ip1:<LinuxIP> /port1:3101 /connectiontimeout:60 /iot
```

Now you will see in icon tray bar, canary running:



Open the Property Watch and give a value to the tag



Now you will see the values in Canary:

Canary Administrator

Home Historian x

HISTORIAN / DATASET: LINUXDEVICES / FILE: LINUXDEVICES 20230102 13.HDB2

TAGS Search...

LinuxDevicesTest1

teste

ROW	TIMESTAMP	VALUE	QUALITY	TYPE
Vector	02/01/2023 13:52:25,765			
1	02/01/2023 13:52:25,7650950	1	Good (0xC0)	I4
2	02/01/2023 13:57:38,4109506	80	Good (0xC0)	I4
3	02/01/2023 13:57:54,8158000	150	Good (0xC0)	I4

Follow a video link running Canary Devices:

[https://partners.tatsoft.com/dl/wGYGde0kaA/CanaryDevicesLinux.mp4\\_](https://partners.tatsoft.com/dl/wGYGde0kaA/CanaryDevicesLinux.mp4_)

## Appendix A

First thing is running the following command in Linux to wait for external Clients connection:

```
xvfb-run mono /home/username/ProjectServer/ProjectServer.exe
```

The Linux terminal should be waiting for connection

```
Could not get XIM
ProjectServer: Waiting client connections...
```



TWebServer and Canary must be running

Then you go in Welcome and connect to Remote Linux Server:

Projects

Server

Connected Server: <http://192.168.239.128:3100/> running version fs-9.2.31

Runtime autostart:  Settings...

**Project Server:**

☐ Localhost  
*IPs: 192.168.0.109,192.168.56.1,192.168.239.1,192.168.248.1 - Running services: ProjectServer and iDataPanelService (Port: 80)*

☒ Remote: <http://192.168.239.128:3100/>  Connect Update...

Virtual path:

Upload Project Active Users...

Status: Remote service connected.

After that, open the project Linux/Mono you have previously created and create a new tag:

