

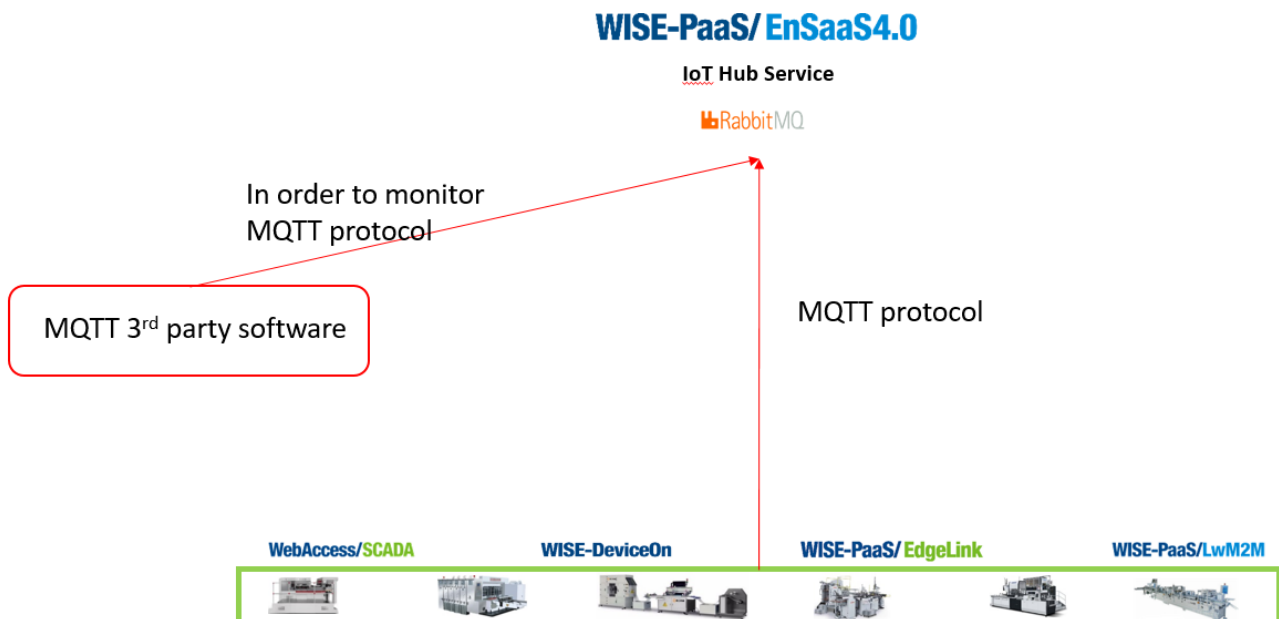
Advantech SE Technical Share Document

Date	2020/11/3	Related Product	WISE-PaaS/Management Portal/MQTT Box/RabbitMQ	
Category	■ FAQ □ SOP □ Driver Tech Note			
Abstract	How to subscribe MQTT broker of DataHub			
Keyword	WIES PaaS			
Related OS	Windows Server 2012 / 2016, Win10			
Revision History				
Date	Version	Author	Reviewer	Description
2020/11/3	V1.0	Simon.Chiu	Nick.Liu	DataHub V2.0.8/Management Portal V4

■ Problem Description & Architecture:

It is quite difficult to find parameters of MQTT broker in WISE-PaaS in management portal. This FAQ will show how to find it and work with MQTT box (MQTT 3rd party software to check MQTT data)

Architecture:

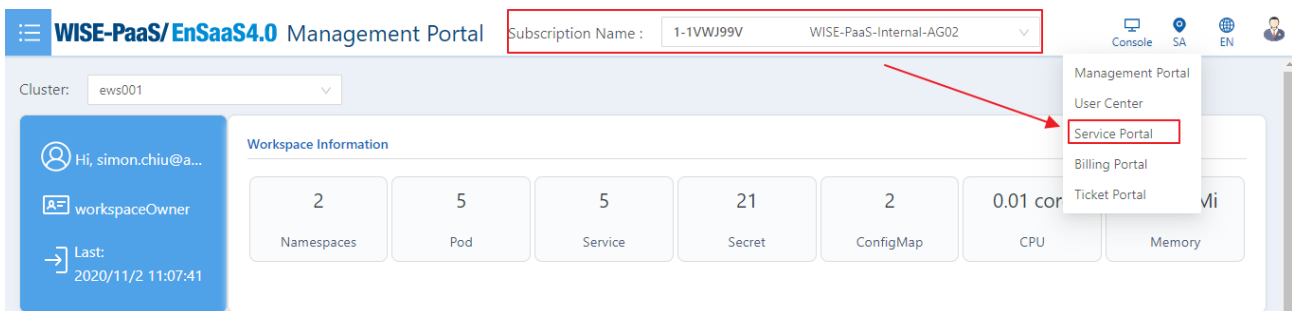


■ Brief Solution - Step by Step:

1. Please go to WISE-PaaS and log in



- Please choose correct subscription name if you have more than one subscription, then click “Service Portal”



- Please find “RabbitMQ” and click “Secret Management”

Active	rabbitmq	0099a81e-6291-11ea-b1de-d20dfb084846	RabbitMQ	standard	2020/3/10 13:35:51	Secret Management
Active	rabbitmq-oeef1589366105367	0c886f21-3174-460f-a299-c1092cc4ecc5	RabbitMQ	standard	2020/5/13 18:35:31	Secret Management

- Find your DataHub and click “View” which is under “Action”

Secret Management					
Manage the secrets for connect to service					
<div> <div>Q</div> <div>Type and press ENTER to search Secret Name.</div> <div>↵</div> <div>+</div> </div>					
Secret Name	Cluster	Workspace	Namespace	Creation Time	Action
datahub-adviiotse-secret	ews001	adv-iiot-se	adviiotse	2020/3/11 18:02:02	⋮
datahub-all-in-one-secret	ews001	adv-iiot-se	adviiotse	2020/3/10 14:36:30	View Recreate Delete
123	ews001	adv-iiot-se	adviiotse	2020/9/21 16:25:22	⋮

5. In order to connect to broker of MQTT, you need (1). Host address (2). Port (3). Account (4). Password.
We can find them in Secret Management.

(1). Host address=External Host

View

Credentials

Parameters

```

{
  "binding_name": "datahub-adviiotse-secret"
  "credentials": {
    "externalHosts": "rabbitmq-001-pub.sa.wise-paas.com"
    "hostname": "rabbitmq-001.sa.wise-paas.com"
    "hostnames": [
      0: "rabbitmq-001.sa.wise-paas.com"
    ]
    "password": "hNSMgQr2E6XZ5esZjtz0Zr9iS"
    "protocols": {
      "amqp+ssl": {

```

(2). Port and Password of MQTT

View

Credentials

Parameters

```

}
"mqtt": {
  "host": "rabbitmq-001.sa.wise-paas.com"
  "hosts": [
    0: "rabbitmq-001.sa.wise-paas.com"
  ]
  "password": "hNSMgQr2E6XZ5esZjtz0Zr9iS"
  "port": 1883
  "ssl": false
  "uri":
  "mqtt://0099a81e-6291-11ea-b1de-d20dfb084846%3A2a6d1af5-8d84-4814-b647-

```

(3). Account of MQTT

View

Credentials	Parameters
<pre>f949930820ff:hNSMgQr2E6XZ5esZjtz0Zr9iS@rabbitmq-001.sa.wise-paas.com:1883"</pre>	
<pre> "uris" : [0 : "mqtt://0099a81e-6291-11ea-b1de-d20dfb084846%3A2a6d1af5-8d84-4814-b647-f949930820ff:hNSMgQr2E6XZ5esZjtz0Zr9iS@rabbitmq-001.sa.wise-paas.com:1883"] "username" : "0099a81e-6291-11ea-b1de-d20dfb084846:2a6d1af5-8d84-4814-b647-f949930820ff" "vhost" : "0099a81e-6291-11ea-b1de-d20dfb084846" } "mqtt+ssl" : { "host" : "rabbitmq-001.sa.wise-paas.com" }</pre>	

6. Download and Install 3rd party software MQTTBox from <http://workswithweb.com/mqttbox.html>

7. Please copy parameters from steps above to setting of MQTTBox. Meanwhile, please choose protocol in "MQTT/TCP"

MQTTBox Edit Help

Menu MQTT CLIENT SETTINGS

MQTT Client Name: Test

MQTT Client Id: 2f7227b-4d0c-41ac-9770-4a39ddbdf

Protocol: mqtt / tcp

Host: rabbitmq-001-pub.sa.wise-paas.com

Username: 0099a81e-6291-11ea-b1de-d20dfb084846.;

Password:

Reconnect Period (milliseconds): 1000

Connect Timeout (milliseconds): 30000

Will - Topic: Will - Topic

Will - QoS: 0 - Almost Once

Save

8. Click Save and check connection status

Green Connected: Parameters are all correct.

Red Connection Failed: One of parameter is not correct.

Menu

←

Connected

Add publisher

Add subscriber

⚙️

Test - mqtt://rabbitmq-001-pub.sa.wise-paas.com

Topic to publish

Topic to publish

QoS

0 - Almost Once

Retain

☐

- You can start to use topic to confirm if data has been sent successfully from edge side to WISE-PaaS. The example below we use “#” to see every data in broker.

Menu

←

Connected

Add publisher

Add subscriber

⚙️

Test - mqtt://rabbitmq-001-pub.sa.wise-paas.com

Topic to publish

Topic to publish

QoS

0 - Almost Once

Retain

☐

Payload Type

Strings / JSON / XML / Characters

e.g: {'hello':'world'}

Payload

Publish

#

{ "d": { "SystemPoint": { "nowsec": 38 } }, "ts": "2020-11-03T06:16:38.586Z" }

qos : 0, retain : false, cmd : publish, dup : false, topic : /wisepaas/scada/fea18543-9335-4b6c-8294-6fe0a2af7edd/data, messageid : , length : 126, Raw payload : 12

33410034581233483121115116101109801111051101163458123341101111191151019

9345851561251254434116115345834504850484549494548518448545849545851564

65356549034125

{ "d": { "SystemPoint": { "nowsec": 37 } }, "ts": "2020-11-03T06:16:37.562Z" }

qos : 0, retain : false, cmd : publish, dup : false, topic : /wisepaas/scada/fea18543-9335-4b6c-8294-6fe0a2af7edd/data, messageid : , length : 126, Raw payload : 12

33410034581233483121115116101109801111051101163458123341101111191151019

9345851551251254434116115345834504850484549494548518448545849545851564

65356549034125

{ "d": { "SystemPoint": { "nowsec": 36 } }, "ts": "2020-11-03T06:16:36.542Z" }

qos : 0, retain : false, cmd : publish, dup : false, topic : /wisepaas/scada/fea18543-9335-4b6c-8294-6fe0a2af7edd/data, messageid : , length : 126, Raw payload : 12

33410034581233483121115116101109801111051101163458123341101111191151019

9345851541251254434116115345834504850484549494548518448545849545851544

■ Pin Definition (in case of serial connection)

■ Reference: