IBAS: Configuration

Configuration Options

IoT Bridge for SiteWise is configured with a configuration file on the filesystem of the EC2 instance. If you are unfamiliar with how to access the instance see this page for access instructions. Also note, after modifying the configuration the application must be restarted. This can be done with the following command.

```
sudo systemctl restart ibas
```

The path to the configuration file is:

/opt/ib/conf/ibas.properties

Once you open the file, you will see the following options.

```
# The IBAS instance friendly name. If ommitted, it will become 'IBAS-ec2-instance-id'
#ibas_instance_name =
# The AWS region the target SiteWise instance is in - if commented out, the region will default to the region
the IoT Bridge for AWS EC2 instance is in
#aws sitewise region = us-east-1
# The MQTT Server URL
mqtt_server_url = ssl://REPLACE_WITH_MQTT_SERVER_ENDPOINT:8883
# The MQTT Server name
mqtt_server_name = My MQTT Server
# The MQTT username (if required by the MQTT Server)
#mqtt_username =
# The MQTT password (if required by the MQTT Server)
#mqtt_password =
# The MQTT keep-alive timeout in seconds
#mqtt_keepalive_timeout = 30
# The path to the TLS Certificate Authority certificate chain
#mqtt_ca_cert_chain_path = /opt/ibas/conf/certs/
# The path to the TLS certificate
#mqtt_client_cert_path = /opt/ibas/conf/certs/
# The path to the TLS private key
#mqtt_client_private_key_path = /opt/ibas/conf/certs/
# The TLS private key password
#mqtt_client_private_key_password =
# Whether or not to verify the hostname against the server certificate
#mqtt_verify_hostname = false
# The Sparkplug sequence reordering timeout in milliseconds
#sequence_reordering_timeout = 5000
# Whether or not to block auto-rebirth requests
#block_auto_rebirth = false
# The primary host ID if this is the acting primary host
#primary_host_id =
# The MQTT Client ID - It is recommend to not set this unless there is a specific reason to do so. If this is
not set a random client ID will be automatically generated
#client_id =
```

```
# Whether or not to enable notifications on measurements in SiteWise
sitewise_enable_notifications = false
# Age of data in the past (in seconds) that can be inserted into SiteWise
sitewise_oldest_data_limit = 604800
# Age of data in the future (in seconds) that can be inserted into SiteWise
sitewise_newest_data_limit = 300
# Whether or not to force updates of UDT Definitions -> SiteWise Models on Sparkplug NBIRTH messages
sitewise_force_model_updates = false
# AWS Tags for Create and Describe of AssetModels
# aws_sitewise_create_asset_model_tag = default_model_key, default_model_value
# aws_sitewise_create_asset_model_tag.G1 = G1, G1_model_key, G1_model_value
# AWS Tags for Create and Describe of Assets
# aws_sitewise_create_asset_tag = default_asset_key, default_asset_value
# aws_sitewise_create_asset_tag.G1 = G1, G1_asset_key, G1_asset_value
# Whether or not to create and update IBAS infomational tracking metrics
# ibas_metrics_enabled = true
# The Sparkplug Group ID to use for IBAS asset names
ibas_metrics_sparkplug_group_id = IBAS Metrics
```

Configuration Examples

If you are using AWS loT Core then your configuration file should look similar to the one below.

```
# The MQTT Server URL
mgtt server url = ssl://b9ffnzzzzzzzz-ats.iot.us-east-1.amazonaws.com:8883
# The MOTT Server name
mqtt_server_name = AWS IoT Core
# The MQTT username (if required by the MQTT Server)
# NOT USED FOR AWS IOT
#mqtt_username = admin
# The MQTT password (if required by the MQTT Server)
# NOT USED FOR AWS IOT
#mqtt_password = changeme
# The MQTT keep-alive timeout in seconds
mqtt_keepalive_timeout = 30
# The path to the TLS Certificate Authority certificate chain
mqtt_ca_cert_chain_path = /opt/ibas/conf/certs/AmazonRootCAl.pem
# The path to the TLS certificate - this is provisioned in the AWS IoT Console
mqtt_client_cert_path = /opt/ibas/conf/certs/72d382zzzz.cert.pem
# The path to the TLS private key - this is provisioned in the AWS IoT Console
mqtt_client_private_key_path = /opt/ibas/conf/certs/72d382zzzz.private.key
# The TLS private key password
# NOT USED FOR AWS IOT
#mqtt_client_private_key_password =
# Whether or not to verify the hostname against the server certificate
#mqtt_verify_hostname = false
# Whether or not to block auto-rebirth requests
#block_auto_rebirth = false
# The primary host ID if this is the acting primary host
# NOT POSSIBLE FOR AWS IOT
#primary_host_id =
# The MQTT Client ID
# It is recommend to not set this unless there is a specific reason to do so. If this is not set a random
client ID will be automatically generated
# NOT USED FOR AWS IOT
#client_id =
```

If you are using Cirrus Link's Chariot MQTT Server using a real signed TLS certification then your configuration file should look similar to the one below.

```
# The IBAS instance friendly name. If ommitted, it will become 'IBAS-ec2-instance-id'
ibas_instance_name = MYBAS

# The AWS region the target SiteWise instance is in - if commented out, the region will default to the region
the IoT Bridge for AWS EC2 instance is in
#aws_sitewise_region = us-east-1

# The MQTT Server URL
mqtt_server_url = ssl://chariot.mycompany.com:8883

# The MQTT Server name
mqtt_server_name = Chariot MQTT Server

# The MQTT username (if required by the MQTT Server)
mqtt_username = admin

# The MQTT password (if required by the MQTT Server)
mqtt_password = change
```

```
# The MQTT keep-alive timeout in seconds
mqtt_keepalive_timeout = 30
# The path to the TLS Certificate Authority certificate chain
#mqtt_ca_cert_chain_path = /opt/ibas/conf/certs/
# The path to the TLS certificate
#mqtt_client_cert_path = /opt/ibas/conf/certs/
# The path to the TLS private key
#mqtt_client_private_key_path = /opt/ibas/conf/certs/
# The TLS private key password
#mqtt_client_private_key_password =
# Whether or not to verify the hostname against the server certificate
mqtt_verify_hostname = true
# The Sparkplug sequence reordering timeout in milliseconds
#sequence_reordering_timeout = 5000
# Whether or not to block auto-rebirth requests
#block auto rebirth = false
# The primary host ID if this is the acting primary host
primary_host_id = IamHost
# The MQTT Client ID - It is recommend to not set this unless there is a specific reason to do so. If this is
not set a random client ID will be automatically generated
#client_id =
# Whether or not to enable notifications on measurements in SiteWise
sitewise_enable_notifications = false
# Age of data in the past (in seconds) that can be inserted into SiteWise
sitewise_oldest_data_limit = 604800
# Age of data in the future (in seconds) that can be inserted into SiteWise
sitewise_newest_data_limit = 300
# Whether or not to force updates of UDT Definitions -> SiteWise Models on Sparkplug NBIRTH messages
sitewise_force_model_updates = true
# AWS Tags for Create and Describe of AssetModels
# aws_sitewise_create_asset_model_tag = default_model_key, default_model_value
# aws_sitewise_create_asset_model_tag.G1 = G1, G1_model_key, G1_model_value
# AWS Tags for Create and Describe of Assets
# aws_sitewise_create_asset_tag = default_asset_key, default_asset_value
# aws_sitewise_create_asset_tag.G1 = G1, G1_asset_key, G1_asset_value
# Whether or not to create and update IBAS infomational tracking metrics
ibas_metrics_enabled = true
# The Sparkplug Group ID to use for IBAS asset names
ibas_metrics_sparkplug_group_id = IBAS Metrics
```