

# 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 omitted, 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.Gl = Gl, Gl_model_key, Gl_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.Gl = Gl, Gl_asset_key, Gl_asset_value

# Whether or not to create and update IBAS informational 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 IoT Core** then your configuration file should look similar to the one below.

```

# The MQTT Server URL
mqtt_server_url = ssl://b9ffnzzzzzzz-ats.iot.us-east-1.amazonaws.com:8883

# The MQTT 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/AmazonRootCA1.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 informational tracking metrics
ibas_metrics_enabled = true

# The Sparkplug Group ID to use for IBAS asset names
ibas_metrics_sparkplug_group_id = IBAS Metrics
```