Integration Microservice for AS2 free trial Setup

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1. create app service (web app)

- linux container
- container type: single container
- registry source: private registry
- server url:https://integrationmicroservicedemo.azurecr.io
- username: integrationmicroservicedemo
- password: lOCJ7zfRetK3dg0ODtIz8W9YjTBC7hzAuZ0hYslbT4+ACRA903NW
- image/tag: as2:demo
- Continuous deployment: yes/no
  We recommend to flag this setting to no once the environment is in production.

- go to settings-identity - set identity on to allow managed identity access to keyvault

  The container registry https:// marketplaceintegrationmicroservice.azurecr.io is exclusively used for free trial.
  If you purchase a license, you will can host a dedicated container for your company or we can push the docker image to your Container registry.

2. create keyvault or use existing one

2.1 create access policy with “secret reader” and “certificate reader” permission for newly created app service identity from step 1

2.2 create certificates and secrets

2.2.1 create certificate with your own private certificate
- you can import ppk pfx file or create new certificate in your keyvault/certificates
- make sure your certificate is having X.509 Key Usage Flags for Digital Signature and Key Encipherment
- this private certificate is the identity of your company/endpoint
- the certificate name is referenced in appsetting LocalPrivateCertificate (4.1)

2.2.2 create secret named "host--masterKey--master"
- this is the client secret used by http clients or logic apps to trigger an as2 message
- max length of host--masterKey--master is 128 characters
- stop and start the app service after change (restart will not do the trick)
- this secret is used at the end of your as2Send call as seen in 5.

2.2.3 create partner public keys by creating a secret for each partner
- content type needs to contain "as2 public key"
- public key needs to be uploaded as base64 encoded string

3. create storage account or use existing

3.1 create blob container for as2 metadata
- this container will be used to store ingoing as2 messages with their metadata
- the metadata blob name will start with your partners as2-from header, followed by as2-message-id, followed by guid
- blob created for each ingoing as2 message will contain the following information
  - as2 headers
  - encryption algorithm used
  - signature algorithm used
  - result of signature validation
  - information about the public key used to validate signature
- if you activate appsetting “tracking”, the app service will write a postman project for each ingoing call which can be used to replay calls for debugging.

3.2 create blob container for as2 payload
- this container will be used to store the payload of ingoing as2 messages
- the payload blob name will start with your partners as2-from header, followed by as2-message-id, followed by guid

3.3 create blob container for asynchronous mdn
- the container will be used to store your asynchronously received mdn messages
- the mdn blob name will start with your partners as2-from header, followed by as2-message-id, followed by guid

4. connect app service with storage and keyvault

4.1 go to settings - go to environment variables - click advanced edit
- update the configuration with the following information:
  - set keyvault uri in appsetting AzureWebJobsSecretStorageKeyVaultUri(see 2.)
  - set appsetting AzureWebJobsSecretStorageType = true
  - set your identity in appsetting LocalPrivateCertificate (see 2.2.1)
  - set storage connection string in appsetting AzureWebJobsStorage(see 3.)
  - set metadata container name in appsetting MetadataContainer (see 3.1)
  - set payload container name in appsetting PayloadContainer (see 3.2)
  - set asyncMdn container name in appsetting AsyncMdnContainer (see 3.3)

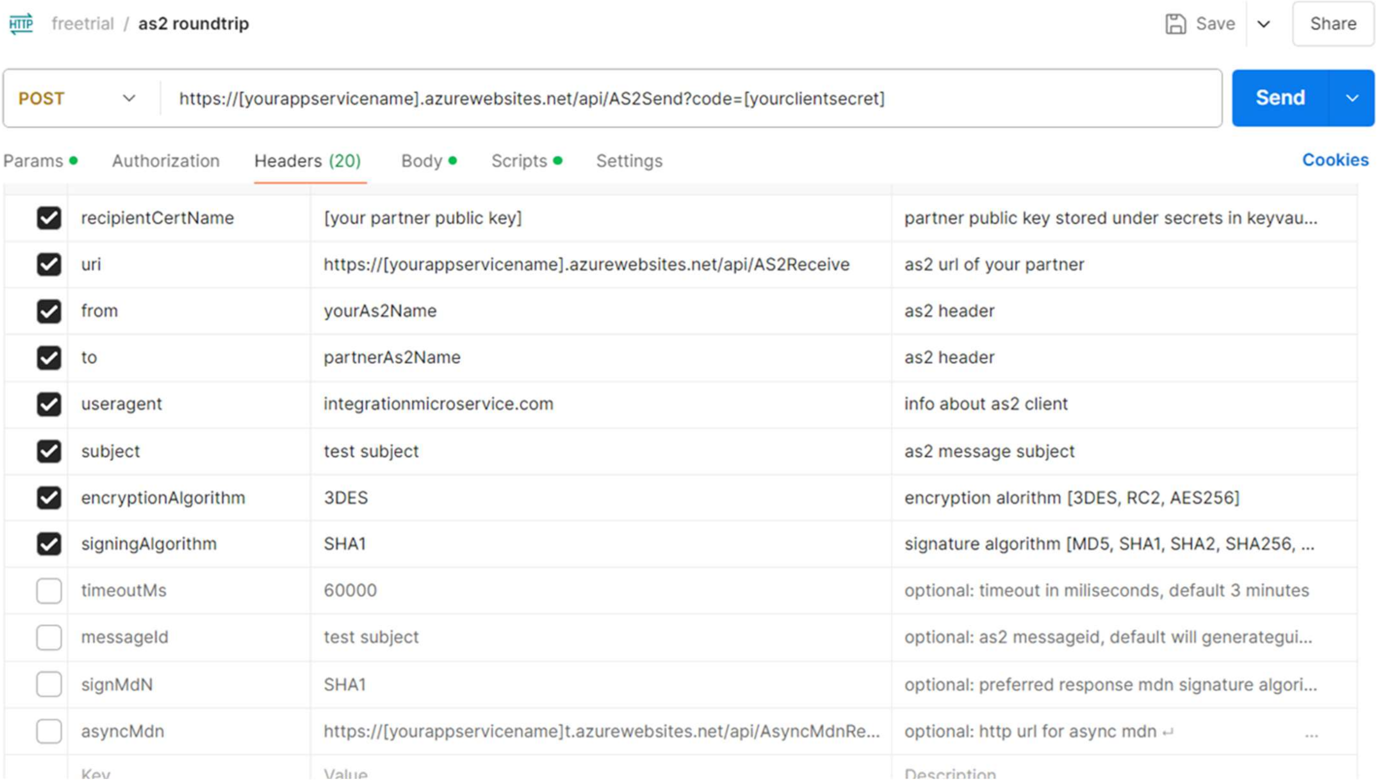
- an example of the settings you need to add can be found under 6.

4.2 save and restart service

5. after resource setup you can use the attached postman project to test your setup

- postman call http get https://[youras2appservicename].azurewebsites.net/api/ip to see outbound ip address of as2

```
  service
- postman roundtrip with own certificates to check sending and receiving of as2 messages
- the postman project will be attached as a json file
```



POST https://[yourappservicename].azurewebsites.net/api/AS2Send?code=[yourclientsecret]

	Key	Value	Description
☑	recipientCertName	[your partner public key]	partner public key stored under secrets in keyvau...
☑	uri	https://[yourappservicename].azurewebsites.net/api/AS2Receive	as2 url of your partner
☑	from	yourAs2Name	as2 header
☑	to	partnerAs2Name	as2 header
☑	useragent	integrationmicroservice.com	info about as2 client
☑	subject	test subject	as2 message subject
☑	encryptionAlgorithm	3DES	encryption alorithm [3DES, RC2, AES256]
☑	signingAlgorithm	SHA1	signature algorithm [MD5, SHA1, SHA2, SHA256, ...
□	timeoutMs	60000	optional: timeout in miliseconds, default 3 minutes
□	messageId	test subject	optional: as2 messageid, default will generategui...
□	signMdN	SHA1	optional: preferred response mdn signature algori...
□	asyncMdn	https://[yourappservicename]t.azurewebsites.net/api/AsyncMdnRe...	optional: http url for async mdn ↵
	Key	Value	Description

6. additional app service settings used for as2 service

```
{
                "name": "DOCKER_ENABLE_CI",
                "value": "true",
                "slotSetting": false
},
{
                "name": "DOCKER_REGISTRY_SERVER_PASSWORD",
                "value": "lOCJ7zfRetK3dg0ODtIz8W9YjTBC7hzAuZ0hYslbT4+ACRA903NW",
                "slotSetting": false
},
{
                "name": "DOCKER_REGISTRY_SERVER_URL",
                "value": "https://integrationmicroservicedemo.azurecr.io",
                "slotSetting": false
},
{
                "name": "DOCKER_REGISTRY_SERVER_USERNAME",
                "value": "integrationmicroservicedemo",
                "slotSetting": false
},
{
                "name": "AzureWebJobsSecretStorageKeyVaultUri",
                "value": "https://microservice-kv-test.vault.azure.net/",
                "slotSetting": false
},
{
                "name": "AzureWebJobsSecretStorageType",
                "value": "keyvault",
                "slotSetting": false
},
{
                "name": "AzureWebJobsStorage",
                "value": "DefaultEndpointsProtocol=https;AccountName=todo;AccountKey=8[secret];EndpointSuffix=core.windows.net",
                "slotSetting": false
},
{
                "name": "LocalPrivateCertificate",
                "value": "[your private certificate name]",
                "slotSetting": false
},
{
                "name": "MetadataContainer",
                "value": "as2-metadata",
                "slotSetting": false
},
{
                "name": "PayloadContainer",
                "value": "as2-payload",
                "slotSetting": false
},
{
                "name": "AsyncMdnContainer",
                "value": "async-mdn ",
                "slotSetting": false
},

{
                "name": "Tracking",
                "value": "True",
                "slotSetting": false
}
```