

Taller Conceptos APIC y Administración APIC

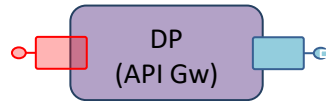
Entrenamiento VCSOFT

APIC 2018.4



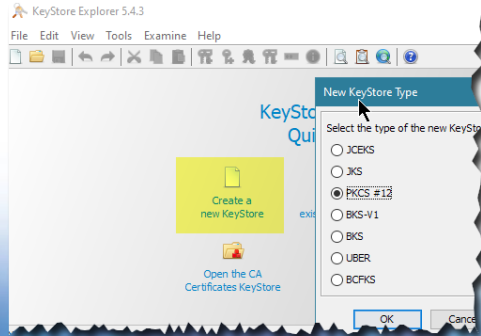
TLS Profiles

- Se requiere crear los TLS requeridos para agregar a la topología un Datapower adicional en IBM Cloud
 - ❖ Este IDG (DP) ofrecerá un URL en donde los consumidores invocarán APIs
 - Suponga que este url será <https://api.ibm-cloud.apic.dev1.tbk.cl> 
 - Requiere un TLS server profile para este server
 - ❖ El DP se controla por el siguiente URL:
 - <https://mgmt-gwy.ibm-cloud.apic.dev1.tbk.cl:3000> 
 - Requiere un TLS Client Profile para invocar este servicio



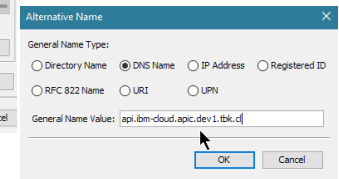
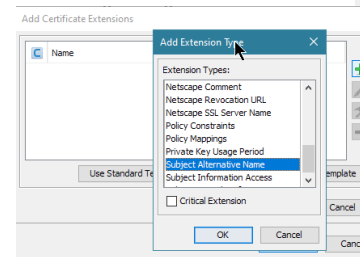
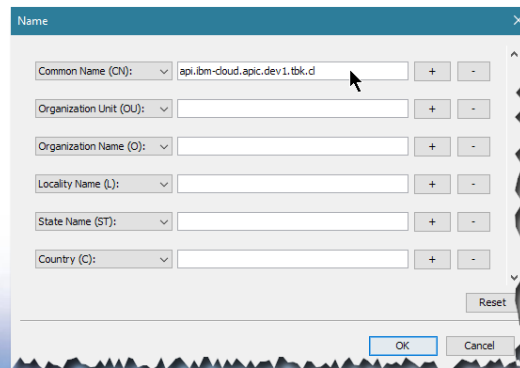
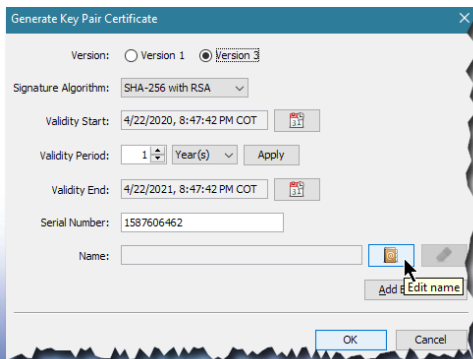
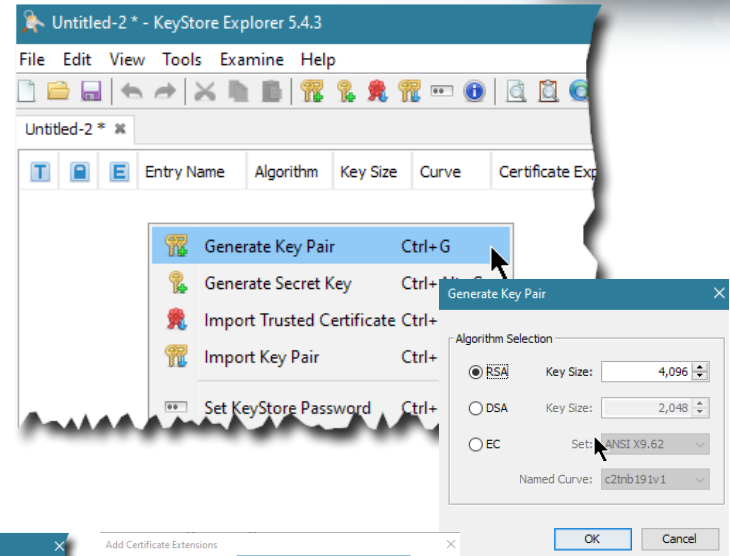
TLS Server Profile

- Descargue una herramienta de creación de llaves/certificados
 - ❖ <https://keystore-explorer.org/downloads.html>
- Para un TLS Server Profile se requiere
 - ❖ Un KeyStore que contiene el par de llaves del server
 - ❖ Un certificado que presenta la identidad del server
- Construya un Store de llaves
 - ❖ Tipo PKCS12



Llaves y certificado

- Genere un par de llaves
- Seleccione que se requiere RSA de tamaño 4096 b
- Espere que se generen las llaves
- Defina los datos del certificado de identidad:
CN =api.ibm-cloud.apic.dev1.tbk.cl
Subject Alternative Name = DNS api.ibm-cloud.apic.dev1.tbk.cl



Almacenar el store de llaves

- Guarde el key store
 - ❖ api.ibm-cloud.apic.dev1.tbk.cl.p12
 - ❖ Asigne password Transbank2
- Ingrese en Cloud Manager a registrar este key store:
- Nombre : [taller-api.ibm-cloud.apic.dev1.tbk.cl](#)
- Arrastre el p12 al campo de private key
 - ❖ No se requiere el campo secundario porque se carga el store completo:

Step 1: Upload private key

File uploaded successfully

api.ibm-cloud.apic.dev1.tbk.cl.p12

Private key password (optional)

Step 2: Upload public key

Keystore

Title

taller-api.ibm-cloud.apic.dev1.tbk.cl

Name

taller-api-ibm-cloud-apic-dev1-tbk-cl

Summary (optional)

tallerAdmin

Private Key & Public Key

If your file contains both the private and public keys, upload it in Step 1

Step 1: Upload private key

Drag & Drop your file here, or

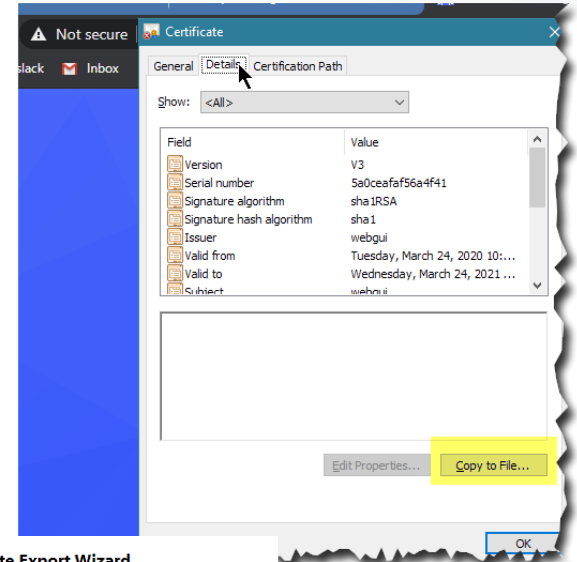
Browse

Private key password (optional)

Step 2: Upload public key

Trust Store para TLS Client

- Para lograr enviarle ordenes administrativas a DP se debe contar con el certificado del servicio administrativo
- <https://mgmt-gwy.ibm-cloud.apic.dev1.tbk.cl:3000>
- Ingrese a este URL y descargue el certificado
 - ❖ Cárguelo en un TrustStore nuevo
 - ❖ En este caso no se requiere llave privada, solo la llave pública en el cert.



Completing the Certificate Export Wizard

You have successfully completed the Certificate Export wizard.

You have specified the following settings:

File Name	e:\cert\puevoDP.cer
Export Keys	No
Include all certificates in the certification path	No
File Format	Base64 Encoded X.509 (*.cer)

Carga del .CER

Truststore

Configure the truststore and upload certificates

Title

taller-dp-admin

Name

taller-dp-admin

Summary (optional)

borrar

Upload Truststore Certificates



nuevoDRoer

X

Cancel

Save

Keystore

☐ TITLE

☐ Analytics client keystore

☐ Analytics ingestion keystore

☐ cloud-admin-ui

☐ DP-Desarrollo

☐ Portal Director keystore

☐ taller-api.ibm-cloud.apic.dev1.tbk.cl

☐ Default TLS server keystore

Truststore

☐ TITLE

☐ Analytics client truststore

☐ Analytics ingestion truststore

☐ Portal Director truststore

☐ taller-dp-admin

☐ TBK-DP-DEV

Crear los Profiles TLS

Server Profile

Create TLS Server Profile

- ☐ TLS Version 1.0
- ☐ TLS Version 1.1
- ☒ TLS Version 1.2

Mutual Authentication

Set the trust level for the profile

Mutual Auth

☐ None ☒ Request ☐ Require

Allow Renegotiation

Allow connection to be renegotiated

☒ Limit Renegotiation

Keystore/Truststore

Keystore

taller-api.ibm-cloud.apic.dev1.tbk.cl

Truststore (optional)

Choose one...

Client Profile

Create TLS Client Profile

Protocols

- ☐ TLS Version 1.0
- ☐ TLS Version 1.1
- ☒ TLS Version 1.2

Server Connection

Allow the connection to proceed with weak or insecure credentials

- ☒ Allow insecure server connections
- ☐ Support Server Name Indication (SNI)

Keystore/Truststore

Keystore (optional)

Choose one...

Truststore (optional)

taller-dp-admin

Ciphers

- | <input type="checkbox"/> | CIPHER |
|-------------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> | ECDSA_WITH_AES_256_GCM_SHA384 |
| <input checked="" type="checkbox"/> | ECDSA_WITH_AES_256_GCM_SHA384 |
| <input checked="" type="checkbox"/> | ECDSA_WITH_AES_256_GCM_SHA384 |

Crear el elemento adicional en la topología

Topology

Create Availability Zone

Configure availability zones and services

Transbank

Register new services and manage existing services

Register Service

SERVICE	TYPE	ASSOCIATED ANALYTICS SERVICE	VISIBLE TO
TBKPAIIDG03	DataPower API Gateway	analytics	Public
Analytics	Analytics Service		
DP-k8s	DataPower API Gateway	analytics	Public
Portal	Portal Service		Public

Configure API Gateway Service

Management Endpoint

Endpoint

https://mgmt-gwy.ibm-cloud.apic.dev1.tbk.cl:3000

TLS Client Profile

Default TLS client profile

API Invocation Endpoint

API Endpoint Base

https://api.ibm-cloud.apic.dev1.tbk.cl

Server Name Indication (SNI)

Add

HOST NAME	TLS SERVER PROFILE	ORDER	DELETE
*	Taller-dp-server-profile		

**Publicación
Producto**

Stage de Producto

- Importe el Producto versión 1.0.0
 - ❖ Stage (despliegue) en Catálogo Interno
 - ❖ Solicite Publicación
 - ❖ Apruebe la publicación

TITLE	NAME	STATE
ADM-Abonos-caol5550	adm-abonos-caol5550 1.0.0	published
adm-abonos-cmcc0747	adm-abonos-cmcc0747 1.0.0	published
ADM-Abonos-eapg	adm-abonos-eapg 1.0.0	published
ADM-Abonos-jaimev	adm-abonos-jaimev 1.0.0	published

Versión 1.1.0

- Crea nueva versión de Producto
- Se definen dos planes:
 - ❖ PlanA: 5 invocaciones minuto
 - ❖ PlanB: 10 invocaciones minuto
- Visibilidad
 - ❖ Visibilidad pública
 - ❖ Capacidad de suscripción solo autenticado

Create New API Version

Version

1.1.0

Cancel Create

Product Setup

Visibility

APIs

Plans

Categories

Plans

Add plans to product

PlanB

PlanA

Summary

- ✓ Created new product
- ✓ Added APIs
- ✓ Added rate limits

Edit Product

Visibility

Select the organizations or groups you would like to make this product visible to

☒ Public
☐ Authenticated
☐ Custom

Subscribability

Select the organizations or groups you would like to subscribe to this product

☒ Authenticated
☐ Custom

Back Cancel Next

Detalles del producto

- Defina mail de contacto
- Burst definir un valor de 12 inv/min

NAME	CALLS	PER	UNIT	HARD
limiteB	10	1	minute	<input type="checkbox"/>

Plan Burst Limits

Burst Limits

NAME	CALLS	PER	UNIT
limiteBurst	12	1	minute

Product Setup

Visibility

APIs

Plans

Categories

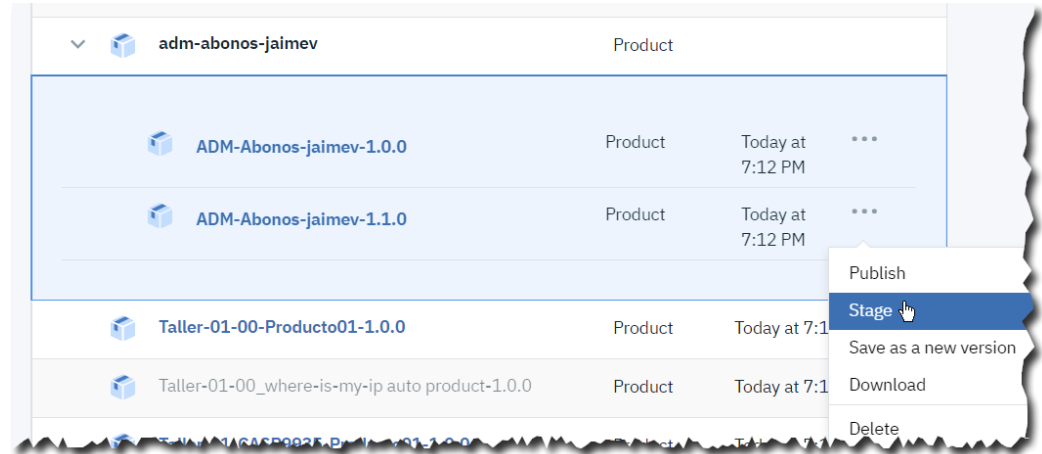
APIs

TITLE

ADM-Abonos-jaimev

Publicar el producto en Catálogo

- Stage (despliegue) el Producto en Catálogo Interno



- Manage>Interno

>	ADM-Abonos-jaimev	adm-abonos-jaimev 1.0.0	published
>	ADM-Abonos-jaimev	adm-abonos-jaimev 1.1.0	staged

Suplantación de Producto

- Seleccione el actual Producto en estado publicado y solicite intercambiarlo por la nueva versión 1.1.0
- Defina el plan al que se migrará:
 - ❖ plana

Supersede
ADM-Abonos-jaimev (adm-abonos-jaimev:1.0.0)

with
ADM-Abonos-jaimev (adm-abonos-jaimev:1.1.0)

Migrate Plans

SOURCE	TARGET
plan-predeterminado	plana

[Cancel](#) [Supersede](#)

[Manage](#) / Interno
Supersede Product

	ccra6U1K	1.0.0	
<input type="radio"/>	adm-abonos-cmcc0747	adm-abonos-cmcc0747 1.0.0	Published
<input type="radio"/>	ADM-Abonos-eapg	adm-abonos-eapg 1.0.0	Published
<input checked="" type="radio"/>	ADM-Abonos-jaimev	adm-abonos-jaimev 1.1.0	Staged

[Cancel](#) [Next](#)

Revise el estado de los productos

>	ADM-Abonos-jaimev	adm-abonos-jaimev 1.0.0	published	Today at 7:21 PM	Deprecated Pending
>	ADM-Abonos-jaimev	adm-abonos-jaimev 1.1.0	staged	Today at 7:21 PM	Published Pending

- Cambie de usuario para realizar la aprobación

Manage / Interno
Tasks

Approval Tasks

Requested Approvals

Supersede approval task for product adm-abonos-jaimev:1.1.0
requested by talleradmin

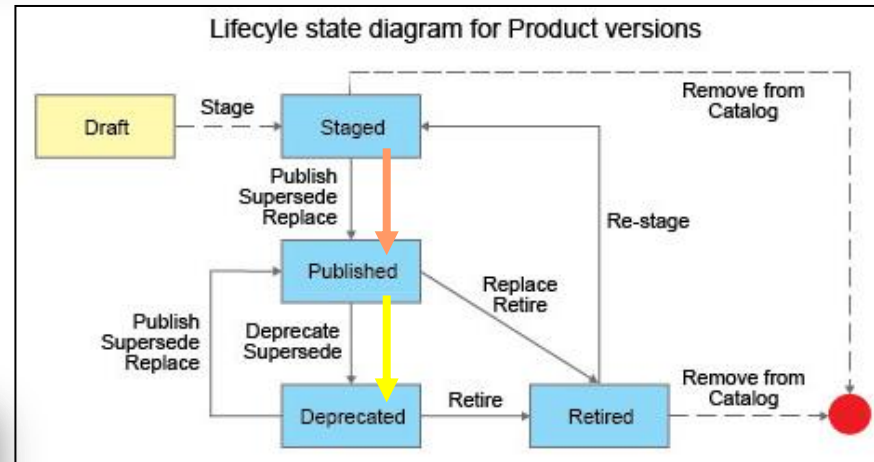
Decline

Approve

Product Lifecycle

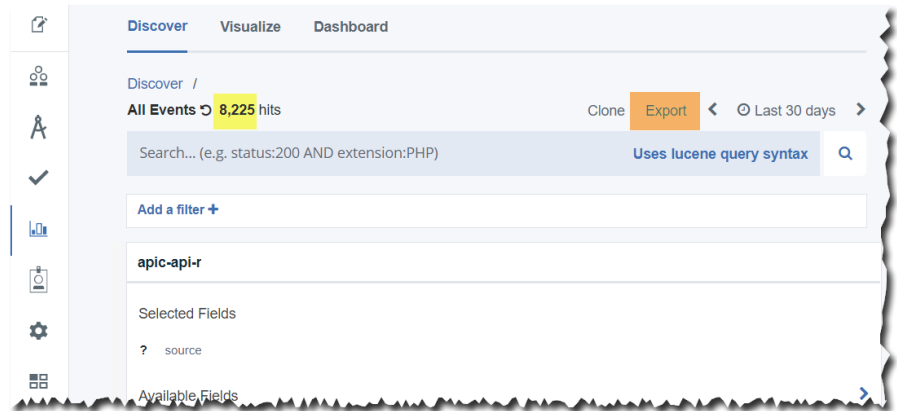
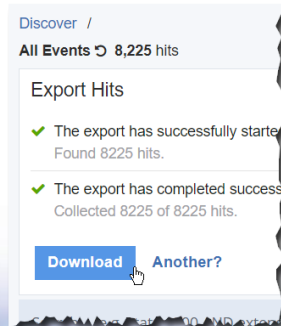
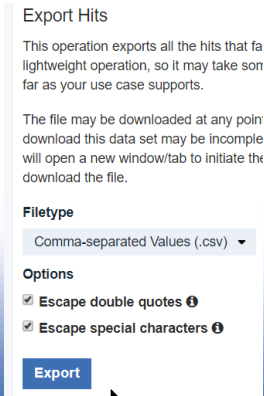
4 minutes ago

>	ADM-Abonos-jaimev	adm-abonos-jaimev 1.0.0	deprecated
>	ADM-Abonos-jaimev	adm-abonos-jaimev 1.1.0	published



**Exportar
Analítica**

- Se requiere una instalación destino de elasticsearch para importar la exportación de eventos
- Ingresar a analítica en API Manager (Sandbox). Ingrese a “All Events”
- Seleccione el periodo de tiempo
- Compruebe la cantidad de eventos
- Genere y descargue una exportación CSV:



Machine Learning / Data Visualizer / File

Time field @timestamp
Time format ISO8601

[Override settings](#)

File stats

@timestamp	#@version
888 documents (100%) 678 distinct values	888 documents (100%) 1 distinct value
top values 2020-03-27T1... 0.45% 2020-03-27T1... 0.34% 2020-03-27T1... 0.34% 2020-03-27T1... 0.34% 2020-03-27T1... 0.34% 2020-03-27T1... 0.34% 2020-03-31T1... 0.34% 2020-03-25T1... 0.23% 2020-03-25T1... 0.23% 2020-03-25T1... 0.23%	min 1 median 1 top values 1
tapi_id	tapi_name
888 documents (100%) 136 distinct values	888 documents (100%) 4 distinct values

[Import](#) [Cancel](#)

- Asigne un nombre al índice
 - ❖ apic-vcsoft
- Espere la operación de ingesta de datos
- Ingrese a Discover y busque el índice recién creado.

Comentarios Finales

VC@SOFT
Cloud Integrated Solutions

- [illegible]

API Experts

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