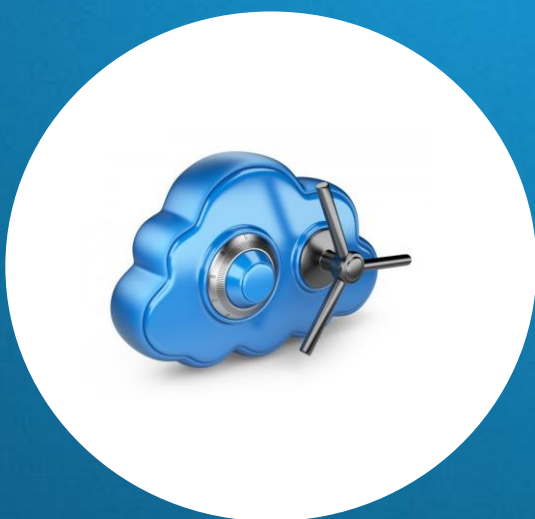


Actualización de Firmware

IBM API Connect



IBM API Connect

transbank.

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Actualización firmware IBM API Connect Transbank.

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Documento para Transbank Chile

Página - 2

Tabla de Contenido

1	Artefactos requeridos	4
2	Preparación y validación cluster EKS.	5
2.1	Preparación e instalación de componentes requeridos.	6
2.2	Obtención de la configuración inicial del apicup	6
2.3	Instalación y validación del helm.....	7
2.4	Instalación y validación de apicup	7
2.5	Configuración de credenciales del cluster	7
2.6	Validar configuración y conectividad.	7
3	Backups	9
3.1	Ubicación	10
3.2	Listar Backups mgmt	10
3.3	Management	10
3.4	Portal	10
4	Preparación.....	11
4.1	Descarga de imágenes.....	12
4.2	Descarga de complementos	12
4.3	Creación de registry o repositorio para la nueva versión	12
4.4	Actualizar versión de apicup.....	13
4.5	Cargar imágenes nuevo registry	13
5	Actualización.....	14
5.1	Actualización de apicup.....	15
5.2	Bloqueo de tráfico a los endpoint.....	15
5.3	Ejecución Management.....	15
5.4	Ejecución Analytics.....	15
5.5	Ejecución Portal	15
5.6	Ejecución API Gateway.....	15
5.7	Activar analytics para los DP	16
5.8	Validar actualización en portal.	16
6	Cargar cambios a repositorio GIT (Obligatorio).	17
6.1	Actualizar configuración en repositorio GIT	18

Convenciones comentarios

Icono	Convención
	Información adicional
	Alerta: información Importante
	Información de configuración
	Comentario de Seguridad
	Sugerencia o recomendación futura

1 Artefactos requeridos

- Acceso a cluster EKS.
- Elementos de instalación inicial del ambiente IBM API Connect.
- Permisos de instalación o ejecución de los siguientes comandos (apicup, kubectl, aws, helm, git, python 2.7)
- El ambiente IBM API Connect se debe encontrar en total funcionamiento.
- Permisos de clone, push y pull en repositorio GIT del ambiente.
- Imágenes de nueva versión de firmware.
- Apicup correspondiente a la versión actual y nueva.

2 Preparación y validación cluster EKS.

2.1 Preparación e instalación de componentes requeridos.

```
export PATH=$PATH:/usr/local/bin/  
export PATH=$PATH:/root/local/bin/  
export TILLER_NAMESPACE=tiller  
yum -y update  
yum -y install kubectl, python-pip, git  
pip install awscli --upgrade --user
```

2.2 Obtención de la configuración inicial del apicup

```
mkdir /home/apiconnect; cd /home/apiconnect  
git clone --branch DEV https://git.tools.tbk.cl/scm/apic/apic2018419.git
```

DEV → Corresponde al ambiente el del cual se está haciendo uso [DEV, QA, PROD]

```
[root@ip-10-212-25-161 apiconnect]# tree  
.  
├── apic2018419  
│   ├── apic  
│   │   └── apicup  
│   ├── apicup  
│   │   ├── analytics_debug.log  
│   │   ├── apiconnect-up.yml  
│   │   ├── apicup-als-apiconnect-secrets.yml  
│   │   ├── apicup-common-secrets.yml  
│   │   ├── apicup-gwy-apiconnect-secrets.yml  
│   │   ├── apicup-mgmt-apiconnect-secrets.yml  
│   │   ├── apicup-ptl-apiconnect-secrets.yml  
│   │   ├── gwy_debug.log  
│   │   ├── mgmt_debug.log  
│   │   └── portal_debug.log  
│   ├── extras_apicup  
│   │   └── portal.yaml  
│   ├── helm  
│   │   └── helm-v2.16.1-linux-386.tar.gz  
│   ├── keystore  
│   │   ├── api_gateway_ingress.key  
│   │   ├── api_gateway_ingress.pem  
│   │   ├── api_manager_ui.key  
│   │   ├── api_manager_ui.pem  
│   │   ├── cloud_admin_ui.key  
│   │   ├── cloud_admin_ui.pem  
│   │   ├── consumer_api.key  
│   │   ├── consumer_api.pem  
│   │   ├── platform_api.key  
│   │   ├── platform_api.pem  
│   │   ├── portal_www_ingress.key  
│   │   ├── portal_www_ingress.pem  
│   │   ├── portal_www_ingress_v2.pem  
│   │   └── TRANSBANKCA.pem  
│   ├── NOTAS.txt  
│   └── README.md
```

2.3 Instalación y validación del helm.

```
cd /home/apiconnect/apic2018419/helm
tar -zxvf helm-v2.16.1-linux-386.tar.gz
mv linux-386/helm /usr/local/bin/
mv linux-386/tiller /usr/local/bin/
rm -rf linux-386
```

2.4 Instalación y validación de apicup

```
cd /home/apiconnect/apic2018419
cp apic/apicup /usr/local/bin/
chmod 777 /usr/local/bin/apicup
apicup versión
```

2.5 Configuración de credenciales del cluster

```
aws configure
[Configuración de credenciales]
vi /root/.aws/credentials
[Edición de credenciales en archivo]
aws eks update-kubeconfig --name airport-cluster
```

airport-cluster → Nombre del cluster eks remplazar si es necesario.

2.6 Validar configuración y conectividad.

helm list

```
[root@ip-10-212-25-161 DEV]# helm list
NAME                REVISION    UPDATED                     STATUS      CHART              APP VERSION    NAMESPACE
ingress              1            Mon Dec 23 16:54:00 2019  DEPLOYED   nginx-ingress-1.27.0  0.26.1         kube-system
r31f4e26f5e         2            Thu Jan 9 22:41:41 2020  DEPLOYED   apiconnect-2.0.0      1.0            apiconnect
r554d996560         2            Thu Jan 9 23:05:47 2020  DEPLOYED   dynamic-gateway-service-1.0.56  1.0            apiconnect
r5d88581ca1         1            Fri Dec 27 21:26:15 2019  DEPLOYED   cassandra-operator-1.0.0      1.0.1         apiconnect
rc4ea5d1d3e         2            Thu Jan 9 23:18:50 2020  DEPLOYED   apic-portal-2.0.0          1.0.1         apiconnect
rea85c8780c         1            Fri Dec 27 21:38:12 2019  DEPLOYED   apic-analytics-2.0.0        1.0.1         apiconnect
```

kubectl get node

```
[root@ip-10-212-25-161 apic2018419]# kubectl get node
NAME                                STATUS    ROLES    AGE    VERSION
ip-10-212-25-161.ec2.internal      Ready    <none>   30h    v1.14.8-eks-b8860f
```

aws eks list-clusters

```
[root@ip-10-212-25-161 apic2018419]# aws eks list-clusters
{
  "clusters": [
    "airport-cluster"
  ]
}
```

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Página - 7

kubectl get po -n apiconnect

```
[root@ip-10-212-25-161 DEV]# kubectl get po -n apiconnect
```

NAME	READY	STATUS	RESTARTS	AGE
backup-xn428-tdx4q	0/1	Completed	0	15h
ptl-backup-k25lj-9sn4p	0/1	Completed	0	15h
r31f4a26f5e-analytics-proxy-5955cddc85-wltfb	1/1	Running	0	37h
r31f4a26f5e-apiconnect-cc-0	1/1	Running	0	37h
r31f4a26f5e-apiconnect-cc-backup-1578618000-n6cft	0/1	Completed	0	13h
r31f4a26f5e-apim-schema-upgrade-job-2-nw84m	0/1	Completed	0	15h
r31f4a26f5e-apim-v2-59d67bc597-vdbkm	1/1	Running	0	37h
r31f4a26f5e-client-dl-srv-6fcd8fc6d-9t2jt	1/1	Running	0	37h
r31f4a26f5e-juhu-854984d5cb-k5qrj	1/1	Running	0	37h
r31f4a26f5e-ldap-78df9969c8-jgsch	1/1	Running	0	37h
r31f4a26f5e-lur-schema-upgrade-job-2-d9vbm	0/1	Completed	0	15h
r31f4a26f5e-lur-v2-54f9b78db7-6v5g9	1/1	Running	0	37h
r31f4a26f5e-ui-84df6c486f-m67rf	1/1	Running	0	37h
r554d996560-datapower-monitor-6cc6f6cc9d-fbfsp	1/1	Running	0	37h
r554d996560-dynamic-gateway-service-0	1/1	Running	0	37h
r5d88581cal-cassandra-operator-6d64bf87c8-l9gfp	1/1	Running	0	37h
rc4ea5d1d3e-apic-portal-db-0	2/2	Running	0	37h
rc4ea5d1d3e-apic-portal-nginx-b9fb75c-d4kq8	1/1	Running	0	37h
rc4ea5d1d3e-apic-portal-www-0	2/2	Running	0	37h
rea85c8780c-analytics-client-857c6769f5-nbqmn	1/1	Running	0	37h
rea85c8780c-analytics-cronjobs-retention-1578619800-n72q9	0/1	Completed	0	13h
rea85c8780c-analytics-cronjobs-rollover-1578665700-k2ddp	0/1	Completed	0	15m
rea85c8780c-analytics-ingestion-9d458d6f-8v6p6	1/1	Running	0	37h
rea85c8780c-analytics-mtls-gw-698c6f987d-vgj65	1/1	Running	0	37h
rea85c8780c-analytics-operator-85f545dcf6-d6bc4	1/1	Running	0	37h
rea85c8780c-analytics-storage-coordinating-6c78894b77-tr4fn	1/1	Running	0	37h
rea85c8780c-analytics-storage-data-0	1/1	Running	0	37h
rea85c8780c-analytics-storage-master-0	1/1	Running	0	37h

```
[root@ip-10-212-25-161 DEV]# kubectl get node
```

NAME	STATUS	ROLES	AGE	VERSION
ip-10-212-25-161.ec2.internal	Ready	<none>	24h	v1.14.8-eks-b8860f

3 Backups

3.1 Ubicación

```
cd /home/apiconnect/apic2018419/apicup
```

```
[root@ip-10-212-25-161 apicup]# ls
analytics_debug.log  apicup-als-apiconnect-secrets.yml  apicup-gwy-apiconnect-secrets.yml  apicup-ptl-apiconnect-secrets.yml  mgmt_debug.log
apiconnect-up.yml    apicup-common-secrets.yml          apicup-mgmt-apiconnect-secrets.yml  gwy_debug.log                    portal_debug.log
```

3.2 Listar Backups mgmt

```
[root@ip-10-212-25-161 apicup]# apicup subsys exec mgmt list-backups
```

Cluster	Namespace	ID	Timestamp	Status
r31f4a26f5e-apiconnect-cc	apiconnect	1578618009608810094	2020-01-10 01:00:09.608810094 +0000 UTC	Complete
r31f4a26f5e-apiconnect-cc	apiconnect	1578609581277058891	2020-01-09 22:39:41.277058891 +0000 UTC	Complete
r31f4a26f5e-apiconnect-cc	apiconnect	1578531609601769737	2020-01-09 01:00:09.601769737 +0000 UTC	Complete
r31f4a26f5e-apiconnect-cc	apiconnect	1578445207834303055	2020-01-08 01:00:07.834303055 +0000 UTC	Complete
r31f4a26f5e-apiconnect-cc	apiconnect	1578395086366873679	2020-01-07 11:04:46.366873679 +0000 UTC	Complete
r31f4a26f5e-apiconnect-cc	apiconnect	1578099606200540968	2020-01-04 01:00:06.200540968 +0000 UTC	Complete
r31f4a26f5e-apiconnect-cc	apiconnect	1578013206500339762	2020-01-03 01:00:06.500339762 +0000 UTC	Complete
r31f4a26f5e-apiconnect-cc	apiconnect	1577840406869477823	2020-01-01 01:00:06.869477823 +0000 UTC	Complete
r31f4a26f5e-apiconnect-cc	apiconnect	1577754008734218501	2019-12-31 01:00:08.734218501 +0000 UTC	Complete
r31f4a26f5e-apiconnect-cc	apiconnect	1577714579694690978	2019-12-30 14:02:59.694690978 +0000 UTC	Complete
r31f4a26f5e-apiconnect-cc	apiconnect	1577713690626888509	2019-12-30 13:48:10.626888509 +0000 UTC	Complete
r31f4a26f5e-apiconnect-cc	apiconnect	1577494807921938135	2019-12-28 01:00:07.921938135 +0000 UTC	Complete

3.3 Management

```
[root@ip-10-212-25-161 apicup]# apicup subsys exec mgmt backup
Connection created
Invoking request
Backup ID: 1578667458093560426
```

3.4 Portal

```
[root@ip-10-212-25-161 apicup]# apicup subsys exec ptl backup
```







```
2020-01-10 14:44:58: Making a backup for site portal.apic.dev1.tbk.cl/transbank/interno
2020-01-10 14:45:02: A local backup was successfully created: /var/aeigr/backups/portal.apic.dev1.tbk.cl/transbank@interno-20200110.144459.tar.gz
2020-01-10 14:45:02: Attempting to upload backup to remote backup server
2020-01-10 14:45:02: Uploading portal.apic.dev1.tbk.cl/transbank@interno-20200110.144459.tar.gz to s3.amazonaws.com/us-east-1:22:apic-dev-backup/ptl/ using ob
jstore
2020-01-10 14:45:03: Site with URL portal.apic.dev1.tbk.cl/transbank/interno (portal.apic.dev1.tbk.cl/transbank@interno-20200110.144459.tar.gz) successfully u
ploaded
2020-01-10 14:45:03: Making a backup for site portal.apic.dev1.tbk.cl/transbank/sandbox
2020-01-10 14:45:08: A local backup was successfully created: /var/aeigr/backups/portal.apic.dev1.tbk.cl/transbank@sandbox-20200110.144504.tar.gz
2020-01-10 14:45:08: Attempting to upload backup to remote backup server
2020-01-10 14:45:08: Uploading portal.apic.dev1.tbk.cl/transbank@sandbox-20200110.144504.tar.gz to s3.amazonaws.com/us-east-1:22:apic-dev-backup/ptl/ using ob
jstore
2020-01-10 14:45:08: Site with URL portal.apic.dev1.tbk.cl/transbank/sandbox (portal.apic.dev1.tbk.cl/transbank@sandbox-20200110.144504.tar.gz) successfully u
ploaded
2020-01-10 14:45:08: Making a backup for site portal.apic.dev1.tbk.cl/transbank/publico
2020-01-10 14:45:13: A local backup was successfully created: /var/aeigr/backups/portal.apic.dev1.tbk.cl/transbank@publico-20200110.144509.tar.gz
2020-01-10 14:45:13: Attempting to upload backup to remote backup server
2020-01-10 14:45:13: Uploading portal.apic.dev1.tbk.cl/transbank@publico-20200110.144509.tar.gz to s3.amazonaws.com/us-east-1:22:apic-dev-backup/ptl/ using ob
jstore
2020-01-10 14:45:13: Site with URL portal.apic.dev1.tbk.cl/transbank/publico (portal.apic.dev1.tbk.cl/transbank@publico-20200110.144509.tar.gz) successfully u
ploaded
2020-01-10 14:45:14: Making a backup for site portal.apic.dev1.tbk.cl/transbank/partner
2020-01-10 14:45:18: A local backup was successfully created: /var/aeigr/backups/portal.apic.dev1.tbk.cl/transbank@partner-20200110.144514.tar.gz
2020-01-10 14:45:18: Attempting to upload backup to remote backup server
2020-01-10 14:45:18: Uploading portal.apic.dev1.tbk.cl/transbank@partner-20200110.144514.tar.gz to s3.amazonaws.com/us-east-1:22:apic-dev-backup/ptl/ using ob
jstore
2020-01-10 14:45:19: Site with URL portal.apic.dev1.tbk.cl/transbank/partner (portal.apic.dev1.tbk.cl/transbank@partner-20200110.144514.tar.gz) successfully u
ploaded
{
  "sitesBackedUp": [
    "8435b92f-9579-4aae-99cb-e200ed8737ef.16c5987c-df37-4448-86c5-e75937c4f330",
    "8435b92f-9579-4aae-99cb-e200ed8737ef.70913183-5310-4040-b781-765906077288",
    "8435b92f-9579-4aae-99cb-e200ed8737ef.b2613943-3056-4121-85e7-5adbfefa3c0e",
    "8435b92f-9579-4aae-99cb-e200ed8737ef.cab0b1ab-cf01-4f4f-9530-87d324bd4c3e"
  ],
  "sitesFailed": []
}
```

```
2020-01-10 14:45:19: Creating a portal system backup...
2020-01-10 14:45:19: Portal system backup created: portal_system_backup-20200110.144519.tar.gz
2020-01-10 14:45:19: Uploading portal_system_backup-20200110.144519.tar.gz to s3.amazonaws.com/us-east-1:22:apic-dev-backup/ptl/ using objstore
2020-01-10 14:45:19: Portal system backup (portal_system_backup-20200110.144519.tar.gz) successfully uploaded
```

4 Preparación





4.1 Descarga de imágenes

Estos elementos son descargados del Fix Central IBM

 analytics-images-kubernetes_its_v2018.4.1.9.tgz	18/12/2019 4:14 p....	Archivo TGZ	1,031,340 KB
 dpm2018419.its.tar.gz	18/12/2019 3:59 p....	Archivo GZ	35,702 KB
 idg_dk2018419.its.nonprod.tar.gz	18/12/2019 4:01 p....	Archivo GZ	293,762 KB
 idg_dk2018419.its.prod.tar.gz	18/12/2019 4:04 p....	Archivo GZ	293,761 KB
 management-images-kubernetes_its_v2018.4.1.9.tgz	18/12/2019 5:58 p....	Archivo TGZ	1,909,354 KB
 portal-images-kubernetes_its_v2018.4.1.9.tgz	18/12/2019 6:02 p....	Archivo TGZ	966,668 KB

4.2 Descarga de complementos

Estos elementos son descargados del Fix Central IBM

 apic-lte-2018.4.1.9.zip	19/12/2019 8:31 a. ...	Carpeta compri...	838,764 KB
 apicup-windows_its_v2018.4.1.9.exe	18/12/2019 3:58 p....	Aplicación	38,887 KB
 toolkit-loopback-designer-windows_its_...	18/12/2019 4:05 p....	Carpeta compri...	90,760 KB
 toolkit-windows_its_v2018.4.1.9.zip	18/12/2019 4:04 p....	Carpeta compri...	13,412 KB

4.3 Creación de registry o repositorio para la nueva versión

Se debe de almacenar en un nuevo repositorio, diferente a el actual.

Este ejemplo es para creación en AWS ECR.

```

echo "=====Inicio de creación ECR====="
aws ecr create-repository --repository-name apic2018419/apim
aws ecr create-repository --repository-name apic2018419/client-downloads-server
aws ecr create-repository --repository-name apic2018419/ui
aws ecr create-repository --repository-name apic2018419/juhu
aws ecr create-repository --repository-name apic2018419/lur
aws ecr create-repository --repository-name apic2018419/analytics-proxy
aws ecr create-repository --repository-name apic2018419/ldap
aws ecr create-repository --repository-name apic2018419/busybox
aws ecr create-repository --repository-name apic2018419/cassandra
aws ecr create-repository --repository-name apic2018419/cassandra-operator
aws ecr create-repository --repository-name apic2018419/cassandra-health-check
aws ecr create-repository --repository-name apic2018419/migration
aws ecr create-repository --repository-name apic2018419/k8s-init
aws ecr create-repository --repository-name apic2018419/portal-db
aws ecr create-repository --repository-name apic2018419/portal-dbproxy
aws ecr create-repository --repository-name apic2018419/portal-admin
aws ecr create-repository --repository-name apic2018419/portal-web
aws ecr create-repository --repository-name apic2018419/portal-job-alpine
aws ecr create-repository --repository-name apic2018419/openresty
aws ecr create-repository --repository-name apic2018419/portal-exec-job
aws ecr create-repository --repository-name apic2018419/analytics-cronjobs
aws ecr create-repository --repository-name apic2018419/analytics-client
aws ecr create-repository --repository-name apic2018419/analytics-ingestion
aws ecr create-repository --repository-name apic2018419/analytics-mq-kafka
aws ecr create-repository --repository-name apic2018419/analytics-mq-zookeeper
aws ecr create-repository --repository-name apic2018419/analytics-storage
aws ecr create-repository --repository-name apic2018419/analytics-operator
aws ecr create-repository --repository-name apic2018419/datapower-api-gateway
aws ecr create-repository --repository-name apic2018419/k8s-datapower-monitor
echo "=====Fin de creación ECR====="

```

4.4 Actualizar versión de apicup

Remplazar la ubicación del path donde se encuentra almacenado actualmente y remplazar el archivo con la nueva versión descargada anteriormente.

```
mtorres@VC@SOFT50A MINGW64 ~/Documents
$ apicup version
APIConnect 2018.4.1.9
Installer 7.0.2
```

4.5 Cargar imágenes nuevo registry

```
apicup registry-upload management ../../imagenes/2018.4.1.9/management-images-kubernetes_lts_v2018.4.1.9.tgz 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419
apicup registry-upload portal ../../imagenes/2018.4.1.9/portal-images-kubernetes_lts_v2018.4.1.9.tgz 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419
apicup registry-upload analytics ../../imagenes/2018.4.1.9/analytics-images-kubernetes_lts_v2018.4.1.9.tgz 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419

apicup registry-upload management management-images-kubernetes_lts_v2018.4.1.9.tgz 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419
apicup registry-upload analytics analytics-images-kubernetes_lts_v2018.4.1.9.tgz 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419
apicup registry-upload portal portal-images-kubernetes_lts_v2018.4.1.9.tgz 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419

docker load -i ../../imagenes/2018.4.1.9/idg_dk2018419.lts.nonprod.tar.gz;
docker load -i ../../imagenes/2018.4.1.9/idg_dk2018419.lts.prod.tar.gz;
docker load -i ../../imagenes/2018.4.1.9/dpm2018419.lts.tar.gz;

docker pull busybox:1.29-glibc;
docker tag busybox:1.29-glibc 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419/busybox:1.29-glibc;

docker tag ibmcom/datapower:2018.4.1.9.315826-nonprod 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419/datapower-api-gateway:2018.4.1.9-315826-release-nonprod;
docker tag ibmcom/datapower:2018.4.1.9.315826-prod 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419/datapower-api-gateway:2018.4.1.9-315826-release-prod;
docker tag ibmcom/k8s-datapower-monitor:2018.4.1.9 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419/k8s-datapower-monitor:2018.4.1-31-6fe1df8;

docker push 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419/datapower-api-gateway:2018.4.1.9-315826-release-nonprod;
docker push 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419/datapower-api-gateway:2018.4.1.9-315826-release-prod;
docker push 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419/k8s-datapower-monitor:2018.4.1-31-6fe1df8;
docker push 302491177835.dkr.ecr.us-east-1.amazonaws.com/apic2018419/busybox:1.29-glibc;
```

5 Actualización

5.1 Actualización de apicup

Debe de estar ubicado en la carpeta original de la instalación.

```
cd ../../apicup

apicup subsys set mgmt registry $apic_registry/apic2018419
apicup subsys set als registry $apic_registry/apic2018419
apicup subsys set ptl registry $apic_registry/apic2018419
apicup subsys set gwy registry $apic_registry/apic2018419

apicup subsys set gwy image-repository $apic_registry/apic2018419/datapower-api-gateway
apicup subsys set gwy monitor-image-repository $apic_registry/apic2018419/k8s-datapower-monitor

apicup subsys set gwy image-tag="2018.4.1.9-315826-release-nonprod"
apicup subsys set gwy monitor-image-tag="2018.4.1-31-6fe1df8"

apicup subsys set gwy enable-high-performance-peering="false"
```

5.2 Bloqueo de tráfico a los endpoint

Para la actualización realizada se elimino el registro del Route 53 que resuelve el dominio interno, se desactivo el ELB asociado a la instancia temporalmente.

5.3 Ejecución Management

```
apicup subsys install mgmt --debug &> mgmt_debug_upgrade.log
```

5.4 Ejecución Analytics

```
apicup subsys install als --debug &> analytics_debug_upgrade.log
```

5.5 Ejecución Portal

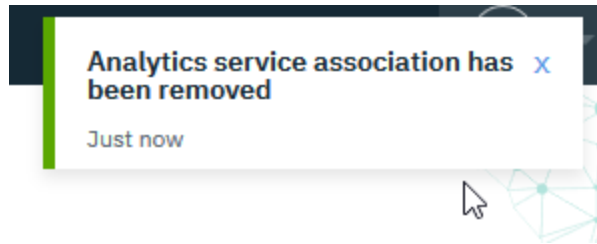
```
apicup subsys install ptl --debug &> portal_debug_upgrade.log
```

5.6 Ejecución API Gateway

```
apicup subsys install gwy --debug &> gwy_debug_upgrade.log
```


5.7 Activar analytics para los DP

a. Desasociar del DP en la topología



b. Asociar nuevamente

Gateway Service
DP_k8s

Analytics Service
Select the analytics service you would like to associate with the gateway service

ANALYTICS	AVAILABILITY_ZONE
<input checked="" type="checkbox"/> Analytics	transbank

[Cancel](#) [Associate](#)

SERVICE	TYPE	ASSOCIATED ANALYTICS SERVICE	VISIBLE TO
DP_k8s	DataPower API Gateway	analytics	Public
Analytics	Analytics Service		
Portal	Portal Service		Public

5.8 Validar actualización en portal.

```
apicup subsys exec ptl list-sites platforms
```

```
stornes@VC@SOFT50A MINGW64 ~/Documents/API_Connect/transbank/Deployment_Apiconnect_k8s/apicup
$ apicup subsys exec ptl list-sites platforms
480530ed-2e20-4f54-9eb3-9fcd148fbbf.3ce336c7-adbd-405e-a148-f02b5a1dc179 => portal.std.apic.arq3x3.tbk.cl/transbank/sandbox (INSTALLED) - platform_devportal_8_x_2018_4_1_9_20191206_1805
480530ed-2e20-4f54-9eb3-9fcd148fbbf.959a248f-6545-49f7-beef-430622e4829a => portal.std.apic.arq3x3.tbk.cl/transbank/interno (INSTALLED) - platform_devportal_8_x_2018_4_1_9_20191206_1805
480530ed-2e20-4f54-9eb3-9fcd148fbbf.e77cc2d8-4ab4-4028-83da-01dea15138ee => portal.std.apic.arq3x3.tbk.cl/transbank/partner (UPGRADING) - platform_devportal_8_x_2018_4_1_9_20191206_1805

stornes@VC@SOFT50A MINGW64 ~/Documents/API_Connect/transbank/Deployment_Apiconnect_k8s/apicup
$ apicup subsys exec ptl list-sites platforms
480530ed-2e20-4f54-9eb3-9fcd148fbbf.3ce336c7-adbd-405e-a148-f02b5a1dc179 => portal.std.apic.arq3x3.tbk.cl/transbank/sandbox (INSTALLED) - platform_devportal_8_x_2018_4_1_9_20191206_1805
480530ed-2e20-4f54-9eb3-9fcd148fbbf.959a248f-6545-49f7-beef-430622e4829a => portal.std.apic.arq3x3.tbk.cl/transbank/interno (INSTALLED) - platform_devportal_8_x_2018_4_1_9_20191206_1805
480530ed-2e20-4f54-9eb3-9fcd148fbbf.e77cc2d8-4ab4-4028-83da-01dea15138ee => portal.std.apic.arq3x3.tbk.cl/transbank/partner (INSTALLED) - platform_devportal_8_x_2018_4_1_9_20191206_1805

stornes@VC@SOFT50A MINGW64 ~/Documents/API_Connect/transbank/Deployment_Apiconnect_k8s/apicup
```


6 Cargar cambios a repositorio GIT (Obligatorio).

6.1 Actualizar configuración en repositorio GIT

Es paso es obligatorio e importante para poder tener administración sobre el cluster de apiconnect.

```
git add .  
git commit -m "Descripción del cambio realizado"  
git push origin DEV
```