

Editing Profile Resources

Oct 2021

Introduction

This article is really only applicable in PoD per Service deployments

IPHE encoding profiles (except the one just called 'encoding') have a CPU limit that is defined in the yaml code. Each encoding profile type has a different value. However this value may not be very optimised for all servers, depending on the CPU / RAM configuration a server has.

For this reason we will probably want to change the default values for a particular server to optimise the number of vCPUs that are allocated to an encoding PoD.

Download an existing encoding profile

Open the MDT application (<https://ipaddress:30443>) and login using mdt-admin / changeme.

Profiles

Cluster

IP/FQDN address	Role	Profiles
10.43.30.101	kube-master	tools, management-mux, monitoring

Now look for an appropriate encoding profile to download (I normally take encoding-hd) and select the 'export profile' button.

Cluster # Profiles

Import profile

Profile	Version	Status	Nodes	PODs	Actions
encoding-hd		New	0/0	0/0	deploy <div>export profile</div>
encoding-hd3264		New	0/0	0/0	deploy
encoding-hd8vnc		New	0/0	0/0	deploy

The encoding profile (a .yaml file) will now download.

Editing the encoding profile

Open the .yaml file (preferably in an editor that properly supports .yaml file formats (not notepad)) and save it to a new filename.

The part of the encoding profile that we are interested in starts with resources: If the file you downloaded does not have this section, download a difference default encoding profile (encoding-hd for example).

resources:

requests:
cpu: 9

We need to change a few lines, see below for a side-by-side comparison, where the original text is on the left and the edited text on the right.

1mdt-kinds:	1mdt-kinds:
2 - kind: profile	2 - kind: profile
3 name: encoding-hd	3 name: encoding-sky-hd-01
4 version: ''	4 version: ''
5 packages:	5 packages:
6 - deploy-package: encoding-live-worker-hd	6 - deploy-package: encoding-live-worker-sky-hd-01
7 version: 25.14.76+4.0.19	7 version: 25.14.76+4.0.19
8 - kind: deploy-package	8 - kind: deploy-package
9 deploy-package:	9 deploy-package:
10 name: encoding-live-worker-hd	10 name: encoding-live-worker-sky-hd-01
11 version: 25.14.76+4.0.19	11 version: 25.14.76+4.0.19
12 chart:	12 chart:
13 name: encoding-live-worker	13 name: encoding-live-worker
14 version: 25.14.76	14 version: 25.14.76
15 namespace: '{{ products_var.namespace }}'	15 namespace: '{{ products_var.namespace }}'
16 deploy_list:	16 deploy_list:
17 - mkel-hd1	17 - sky01
18 options:	18 options:
19 mdt:	19 mdt:
20 deployment_stage: 5	20 deployment_stage: 5
21 upgrade:	21 upgrade:
22 policy: immediate	22 policy: immediate
23 helm:	23 helm:
24 wait: false	24 wait: false
25 timeout: 300	25 timeout: 300
26 values:	26 values:
27 image:	27 image:
28 serverdaemon:	28 serverdaemon:

The first three lines we edit are just for the profile names, and the associated deploy package. Line 17 is where we change the deploy list names, if you are working with a PoD per node, then you add an entry here for each node that you want this encoding profile for, so if you want 5 encoding profiles of this type, you enter the names of those five encoding profiles (mkel1, mkel2, mkel3, mkel4 and mkel5 for instance).

If you are working with PoD per service, you would enter the service name here, and will only have a single item in your deploy list, bbc1 for instance. You will have to create this file for each service PoD you will require.

Adding the new encoding profile to MDT

Once you have created your new encoding profiles, you can upload them to MDT. To do this use the 'Import Profile' button at the top right of the MDT web UI (ensure you are in profile view).

Cluster # Profiles

Import profile

Profile	Version	Status	Nodes	PODs
encoding-hd		New	0/0	0/0

Now select your profile

Import Profile

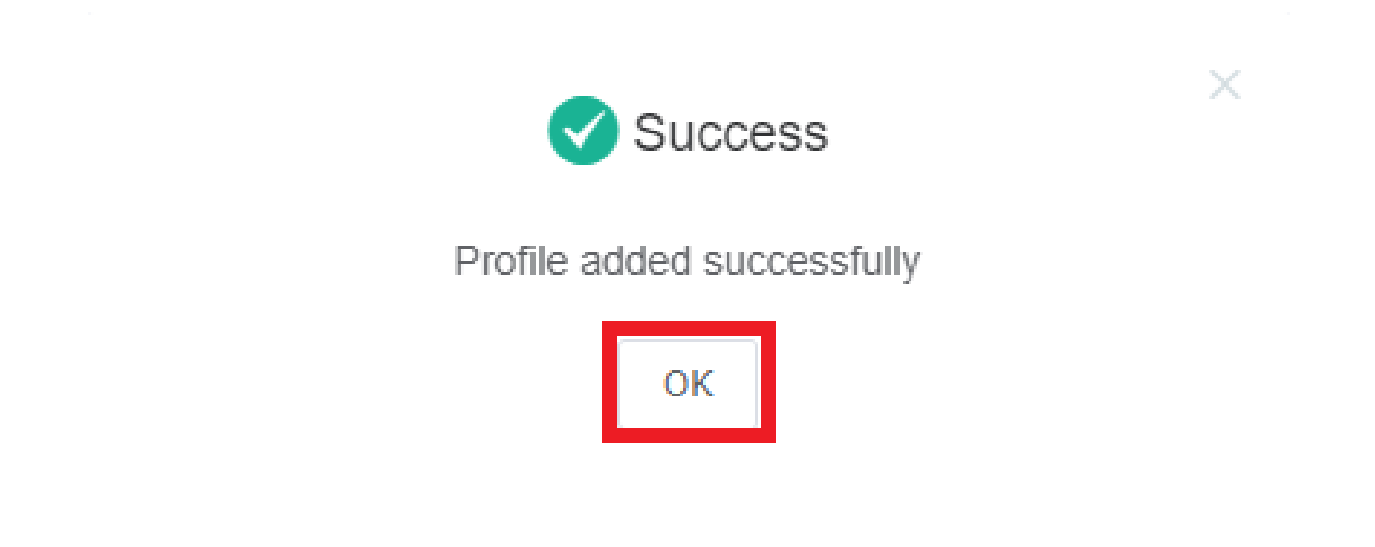
enc_hd_sky01.yaml

Select file

Cancel

Ok

Once uploaded you will see a confirmation panel.



Click okay. Your new encoding profile will be at the bottom of the MDT profile page.

encoding-channel4-hd-01	Deployed	4/4	1/1	reset	⬆	👁	📄
encoding-itr-hd-01	Deployed	4/4	1/1	reset	⬆	👁	📄
encoding-sky-hd-01	New	0/0	0/0	deploy	⬆	👁	📄

To make it active, edit the profile, add some nodes and deploy it.

Edited encoding profile

Below is the edited file that was used in this process.

```
mdt-kinds:
- kind: profile
  name: encoding-sky-hd-01
  version: ''
  packages:
    - deploy-package: encoding-live-worker-sky-hd-01
      version: 25.14.76+4.0.19
- kind: deploy-package
  deploy-package:
    name: encoding-live-worker-sky-hd-01
    version: 25.14.76+4.0.19
  chart:
    name: encoding-live-worker
    version: 25.14.76
    namespace: '{{ products_var.namespace }}'
  deploy_list:
    - sky-01
  options:
    mdt:
      deployment_stage: 5
    upgrade:
      policy: immediate
  helm:
    wait: false
```

```
    timeout: 300
values:
  image:
    serverdaemon:
      repository: '{{ products_var.docker_registry }}/mediakind/server-daemon'
      tag: '{{ products_var.server_daemon.tag }}'
    worker:
      repository: '{{ products_var.docker_registry }}/mediakind/encoding-live-worker'
    redis:
      repository: '{{ products_var.docker_registry }}/redis'
      tag: '{{ products_var.redis.tag }}'
    alarmProxy:
      repository: '{{ products_var.docker_registry }}/mediakind/alarm-proxy'
      tag: '{{ products_var.alarm_proxy.tag }}'
    initcontainer:
      repository: '{{ products_var.docker_registry }}/busybox'
      tag: 1.30.1
alarmsViaRedisInWorkerPod: '{{ products_var.features.alarmsViaRedisInWorkerPod }}'
el_worker:
  server_mngt_nic: '{{ products_var.server_mngt_nic }}'
  mpeg4cfg: |
    perChannelLicensing=true
qsv:
  enable: false
mongo:
  name: '{{ products_var.mongo.name }}'
  database: '{{ products_var.mongo.replicasetname }}'
  replica: '{{ products_var.mongo.replica }}'
muhook:
  enable: '{{ products_var.features.muconv }}'
  interface: '{{ products_var.server_mngt_nic }}'
  process_name: '*liveTranscoder'
  log_level: 4
  log_output: stderr
unified_ui:
  name: api-gateway
rabbitmq:
  name: '{{ products_var.rabbitmq.name }}'
etcd_mu:
  name: '{{ products_var.etcd.name }}'
  port: '{{ products_var.etcd.port }}'
redis:
  name: '{{ products_var.redis.name }}'
volumes:
  log:
    enable: '{{ products_var.log_volume }}'
license_server_addr: '{{ products_var.license_server }}'
server_processing_name: LiveEncoder
nodeSelector: '{{ mdt.current_profile.profile_name_label }}'
resources:
  requests:
    cpu: 7
    memory: 4Gi
  limits:
    cpu: 15
    memory: 10Gi
privilegedInitContainer:
  enabled: true
  command:
    - sysctl
    - '-w'
affinity:
  podAntiAffinity:
    requiredDuringSchedulingIgnoredDuringExecution:
      - topologyKey: kubernetes.io/hostname
    labelSelector:
      matchLabels:
        app: encoding-live-worker
```

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