

## Duplicating Encoding Profiles

Oct 2021

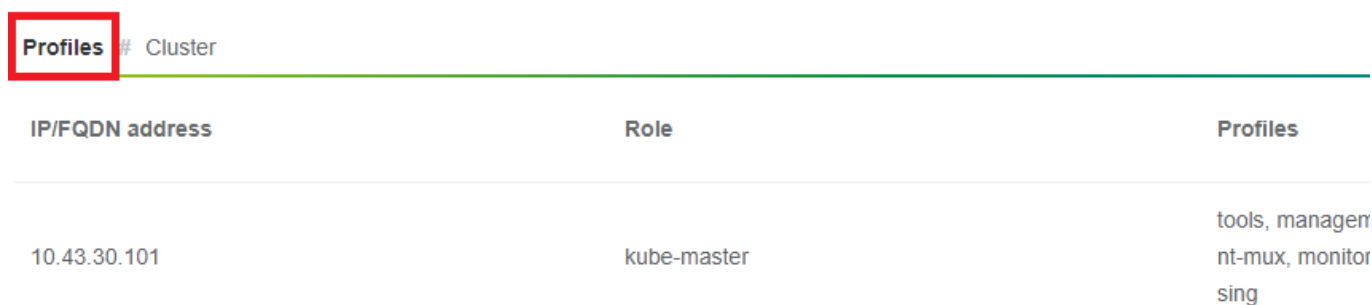
## Introduction

IPHE comes with a set of pre-defined encoding profiles, but no way to manually add a new one from the MDT UI (at the time of writing).

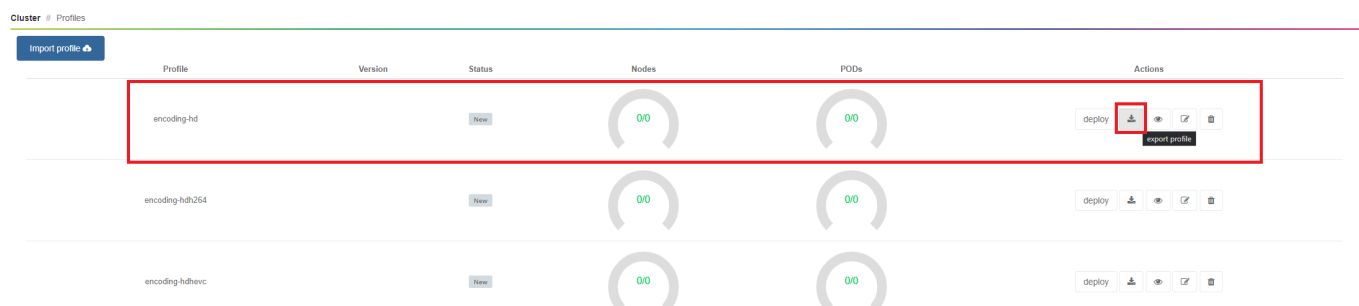
To create a new encoding profile, the best way to do this is to duplicate an existing MDT profile. We just then need to edit a few lines in the profile and re-upload it.

## Download an existing encoding profile

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



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



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

— Alan Walker 2021/09/21 14:49 — Alan Walker 2021/09/21 14:49

## 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. If this is for a PoD per server then you can just save it as a new encoding filename like 'encoding-hd-custom.yaml' for example. If this is for a PoD per service, then save it including the service name, encoding-hd-bbc1.yaml for example.

Below is the format of the default encoding-hd yaml file:

```
mdt-kinds:
- kind: profile
  name: encoding-hd
  version: ''
  packages:
  - deploy-package: encoding-live-worker-hd
    version: 25.14.76+4.0.19
- kind: deploy-package
  deploy-package:
    name: encoding-live-worker-hd
    version: 25.14.76+4.0.19
  chart:
    name: encoding-live-worker
    version: 25.14.76
  namespace: '{{ products_var.namespace }}'
  deploy_list:
  - mkel-hd1
  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: 9
    privilegedInitContainer:
      enabled: true
      command:
        - sysctl
        - '-w'
    affinity:
      podAntiAffinity:
        requiredDuringSchedulingIgnoredDuringExecution:
          - topologyKey: kubernetes.io/hostname
            labelSelector:
              matchLabels:
                app: encoding-live-worker

```

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 - sky-01
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 required.

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