

Duplicating Encoding Profiles

Oct 2021

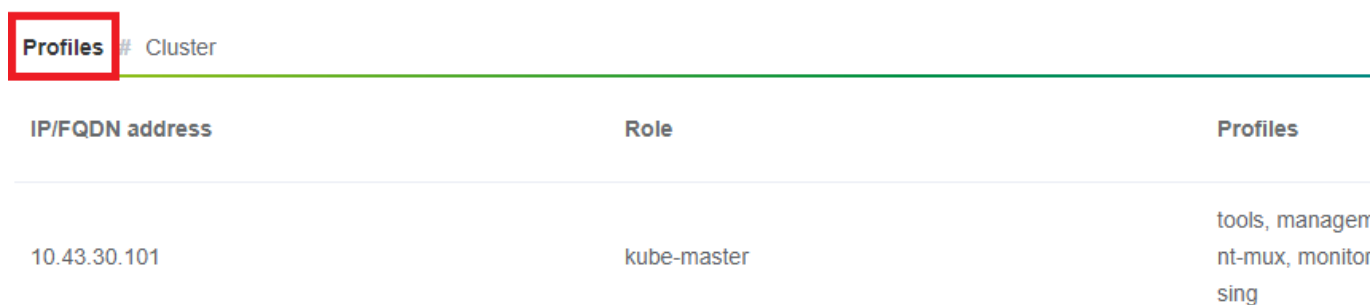
Introduction

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).

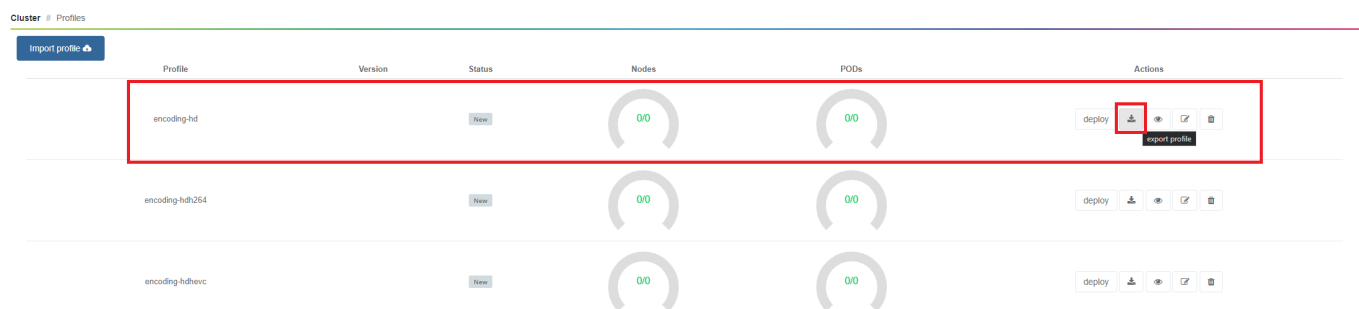
To create a new encoding profile, the best way to do this is to duplicate an existing MDT profile. We just then need to edit a few lines in the profile and re-upload it.

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:

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