

More YAML Configs

2024 ATS Spring Summit

Masaori Koshiba (masaori@apache.org)

Current (ATS v10.0.0)

YAML Based Config

- ip_allow.yaml, logging.yaml, sni.yaml, strategies.yaml
- records.yaml, jsonrpc.yaml ← NEW!

Not Yet

- cache.config, hosting.config, parent.config, plugin.config, remap.config, socks.config, splitdns.config, ssl_multicert.config, storage.config, volume.config

storage.yaml (PR#11000 & PR#11010)

- YAML version of `storage.config` + `volume.config`
- target: ATS v11.0.0
- Doc: storage.yaml - Specification - PR#11000
<https://github.com/apache/trafficserver/pull/11000>
- Add storage.yaml - Implementation - PR#11010
<https://github.com/apache/trafficserver/pull/11010>

Example of storage.yaml

```
cache:
  spans:
    - id: "disk.A"
      path: "/dev/disk/by-id/disk-A-id"
    - id: "disk.B"
      path: "/dev/disk/by-id/disk-A-id"
    - id: "ram.A"
      path: "/dev/ram.1"
  volumes:
    - id: 1
      spans:
        - use: "disk.A"
        - use: "disk.B"
    - id: 2
      spans:
        - use: "ram.A"
```

Discussion

Do we want all-in-one YAML config file?

Top Level Keys

file	key
ip_allow.yaml	ip_allow
jsonrpc.yaml	rpc
logging.yaml	logging
records.yaml	ts
sni.yaml	sni
strategies.yaml	hosts, groups, strategies
storage.yaml	cache

Second Keys of `records.yaml`

```
ts:  
  accept_threads  
  cache  
  dump_mem_info_frequency  
  exec_thread  
  http  
  http2  
  http3  
  log  
  net  
  res_track_memory  
  reverse_proxy  
  ssl  
  task_threads  
  url_remap  
  ...
```

current name	new name	key
cache.config	cache.yaml	cache.policies
hosting.config	hosting.yaml	cache.hosting
parent.config	→ strategies.yaml	-
plugin.config	plugin.yaml	plugin
remap.config	remap.yaml	reamp
socks.config	socks.yaml	socks
splitdns.config	split_dns.yaml	split_dns
ssl_multicert.config	tls.yaml	tls

Concerns of one YAML config file

- Second level key conflicts
 - records.yaml & storategies.yaml needs some change
- Dynamic reloading vs Loading only on startup
 - `RECU_DYNAMIC` vs `RECU_RESTART_TS` in `records.yaml`