Item 338
git_comments:

1. Note: export file's name will be end of a timestamp
2. click Confirm button in the popup to download Json file(debault option)
3. after select route item(s), export button should not be disabled
4. input name, click Next
5. do not config plugins, click Next
6. input nodes_0_host, click Next
7. click Export OpenAPI Button
8. export 2 routes with type yaml
9. click submit to create route
10. go to route create page
11. create two routes
12. init login
13. **comment:** FIXME: only GET in methods
    label: code-design
14. export one route with type json
15. close modal
16. * Licensed to the Apache Software Foundation (ASF) under one or more * contributor license agreements. See the NOTICE file distributed with * this work for additional information regarding copyright ownership. * The ASF licenses this file to You under the Apache License, Version 2.0 * (the "License"); you may not use this file except in compliance with * the License. You may obtain a copy of the License at * * http://www.apache.org/licenses/LICENSE-2.0 * * Unless required by applicable law or agreed to in writing, software * distributed under the License is distributed on an "AS IS" BASIS, * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. * See the License for the specific language governing permissions and * limitations under the License.
17. delete route just imported
18. click import button
19. click submit
20. export button should be disabled without any route items selected
21. show upload notification
22. eslint-disable no-undef
23. select file
24. show error msg
25. after click enabled export button, popup confirm should appeare
26. show delete successfully notification
27. popup confirm should not exit when click disabled export button
28. click Confirm button in the popup to download Yaml file
29. submit successfully

git_commits:

1. **summary:** feat(fe): import and export routes (#1240)
   message: feat(fe): import and export routes (#1240) * upgrade cypress to support download file refer: https://github.com/cypress-io/cypress/issues/949#issuecomment-763323357 Co-authored-by: nic-chen <johz@163.com>

github_issues:

1. **title:** [Proposal]: Import & Export route from OpenAPI Specification3.0
   body: Please answer these questions before submitting your issue. - Why do you submit this issue? - [x] Feature or performance improvement Refer to https://github.com/apache/apisix-dashboard/issues/611 ___ ### Why Sometimes user's apis have already defined based on the openapi specification and when they want to publish those apis on APISIX, they need to learn the concepts of our products, such as how to do parameter validation, how to do authentication, how to do path matching and so on. Actually, many users don't care how to publish a route, so If we can support importing the configuration of openapi to generate the route, that would reduce the user's use cost. ### How - add buttons for import and export in route

page import button for upload the profile of route based on the openapi 3.0, and the export button for download it. - manage-api parse the file, generate an apisix-compliant data structure, and write to the etcd

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   label: code-design

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github_issues_comments:

1. I think this feature will save a lot of time for users who need to import a lot of APIs. According to the above description, the workload on the front-end is relatively small, and the challenge is to convert the profile into an apisix-compliant data structure. let's cc @nic-chen @gxthrj for more suggestions.
2. **body:** @liuxiran @LiteSun I think we need a detailed example of the imported and exported data so that everyone can understand the details more easily
   label: code-design
3. OpenAPI is a description document used to provide quick reading and testing. The route in APISIX is also used to manage API, there are still some differences. For example, we need to consider how to convert the plugin logic in route. We'd better limit the import / export responsibility boundary and provide a more detailed transformation example.
4. > OpenAPI is a description document used to provide quick reading and testing. The route in APISIX is also used to manage API, there are still some differences. For example, we need to consider how to convert the plugin logic in route. Yep, OpenApi is mainly defines some of the contents of the api itself, including: `name`, `description`, `service-side address`, `method`, `path`, `request params`, `response params`, `authentication and authorization`, etc, example configurations can refer to [1]. In addition to the basic content of the api mentioned above, `Route` defined in APISIX also contains powerful extension properties, these need to be done by configuring different plugins. The configuration of these plugins are not currently supported by OpenApi except for Authentication plugins. > We'd better limit the import / export responsibility boundary and provide a more detailed transformation example. The limit I think would be as follows: 1. Import and export only support the basic information of the api: `name`, `description`, `method`, `path`, `request parameters`, `response parameters`, `authentication`, those are supported by OpenApi, and also the parameters required by APISIX. 1. `Upstream` info, which OpenApi cannot describe very specificly; and other plugins info, which cannot supported by OpenApi, I think we would use the `service module` to achieve this part of functions. As a kind of draft, we can supplement the OpenApi with something like `serviceId field` corresponding to APISIX's service_id[2], before user import their apis, they needs to create a service in APISIX, which can include `upstream` and necessary `plugins`, and add the service_id to their OpenApi configurations. cc @gxthrj @nic-chen @LiteSun

   Reference：[1]: https://editor.swagger.io/?_ga=2.10529719.2089761848.1605756499-667259753.1599635344 [2]: https://github.com/apache/apisix/blob/master/doc/zh-cn/admin-api.md#route
5. Here is the proposal for Route Export & Import feature but still under discussion. ping @moonming
6. Once this proposal and discussion are completed, we could remove the discuss label.
7. For the upstream info or service info which are not supported by OAS3.0, there are two feasible options of implementation scenarios: - Expand OAS3.0, increase `upstream` and `service`, which are required by APISIX, and at the same time provide a detailed documentation. we can refer to aliyun API gateway[1]. - advantages: when users import OAS, they only need to pay attention to the profile and do not need to do any additional works. we can support batch operations. this also can be done only as a command-line tool. - disadvantages: Users need to modify the existing OAS refer to our doc. `upstream` and `service` are the only necessary expansiones, if we want to support other plugins by `import` operation, we also need to define new expansion. - Combine with existing create route page, when user create a route, they can

   import a OAS file, which provides parts of the route's info, and for the upstream 、 service and other plugins, they can follow the page step. - advantages: We don't need to expand OAS3.0. It can support all features supported by APISIX - disadvantages: We need to modify the current UE of create route to support this feature. Reference: [1]: https://help.aliyun.com/document_detail/88956.html?spm=a2c4g.11174283.6.564.7be17d24shSMBS what do you think? cc @juzhiyuan @gxthrj @LiteSun @nic-chen @membphis @moonming
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what do you think? > > cc @juzhiyuan @gxthrj @LiteSun @nic-chen @membphis @moonming how can the user export it if using the second plan?

9. > how can the user export it if using the second plan? with the second plan, user can only export part of the route info which supported by OAS3.0

10. got it. So I think the first plan is good for me.

11. > * Expand OAS3.0, increase `upstream` and `service`, which are required by APISIX, and at the same time provide a detailed documentation. we can refer to aliyun API gateway[1]. > > * advantages: > when users import OAS, they only need to pay attention to the profile and do not need to do any additional works. > we can support batch operations. > this also can be done only as a command-line tool. > * disadvantages: > Users need to modify the existing OAS refer to our doc. > `upstream` and `service` are the only necessary expansiones, if we want to support other plugins by `import` operation, we also need to define new expansion. Based on the first plan, how to transform route configuration to OAS3.0? After further compare the configuration of OAS3.0 and routes in APISIX, we categorized the current route fields into three parts * explicitly matched fields are: | route field | OAS3.0 field| | ---- | ---- | | name | paths[url][method]operationId | | desc | paths[url][method]summary | | methods | paths[url]method | * We can do the conversion to implement the corresponding fields are: | route field | OAS3.0 field| | ---- | ---- | | uris | paths.url, | | vars | | | plugins.key-auth | [OAS3.0 reference](https://swagger.io/docs/specification/authentication/api-keys/) | | plugins.basic-auth | [OAS3.0 reference](https://swagger.io/docs/specification/authentication/basic-authentication//) | | plugins.jwt-auth | [OAS3.0 reference](https://swagger.io/docs/specification/authentication/bearer-authentication/) | | plugins.openid-connect | [OAS3.0 reference](https://swagger.io/docs/specification/authentication/openid-connect-discovery//) | | plugins.request-validation | [header params OAS3.0 reference]

    (https://swagger.io/docs/specification/describing-parameters/)、[body params OAS3.0 reference](https://swagger.io/docs/specification/describing-request-body/) | * we need to expended fields are: _we recommend to follow the data structure of the route, only change the name of the key, We can define the first supported fields, prefixed with `x-apisix-*`._ | route field | OAS3.0 expanded field| | ---- | ---- | | upstream | paths[url][method]x-apisix-upstream [apisix upstream ref](https://github.com/apache/apisix/blob/master/doc/architecture-design.md#upstream) | | plugins(except for a few plugins mentioned above) | paths[url][method]x-apisix-plugins [apisix plugins ref](https://github.com/apache/apisix/blob/master/doc/architecture-design.md#plugin) | | hosts | paths[url][method]x-apisix-hosts | --- we formed the first phase of development plan below: 1. **Export routes configuration as a json/yaml file in the way we expanded OAS3.0.** BE: new a manager-api params: routeids & filetype(json or yaml) returns: file FE: add select box to each of route items in route list add a button `Export routes as OAS3.0` to the top of the route list select one or more routes, and click the Export button, get the OAS3.0 file 2. **import the exported file to generate routes.** BE: new an API params: file returns: success or failed FE: add a button `Import routes from OAS3.0` at the top of the route list click button, upload file 3. **Document: Write a document to describe our expansion configuration options based on OAS3.0, examples+description.** cc @LiteSun @juzhiyuan @moonming @membphis @nic-chen @gxthrj

12. **body:** After the offline meeting, we have agreed on the following points: 1. First implement import/export based on OAS 3.0, and consider implementing other formats later 2. import and export in atomic. Todo before development：1. need to List ignored OAS fields when import OAS3.0 @liuxiran 2. Investigate whether golang has librarys that can support the conversion. cc @juzhiyuan @LiteSun @nic-chen @membphis @moonming
    label: code-design

13. when we import routes from OAS3.0, some fields in OAS will be missed because there are not corresponding fields in APISIX's Route: 1. API General Info: used to describe the general information about your API, some times, a oas file contains a series of apis which belong to a app, so this info is different from the api's name and extra basic info. [reference](https://swagger.io/docs/specification/api-general-info/) example: ![image](https://user-images.githubusercontent.com/2561857/102799631-bfda5880-43ed-11eb-9a41-59290d8fbe3f.png) 2. API server and base path: upsream url + url prefix(options) [reference](https://swagger.io/docs/specification/api-host-and-base-path/) example: ![image](https://user-images.githubusercontent.com/2561857/102799994-370fec80-43ee-11eb-9cf9-b14a6b7939d0.png) 3. path params: api params described in path [reference](https://swagger.io/docs/specification/describing-parameters/) example: ![image](https://user-images.githubusercontent.com/2561857/102800650-1dbb7000-43ef-11eb-99e9-a9295a9b851d.png) 4. query params: api params described in query [reference](https://swagger.io/docs/specification/describing-parameters/) example: ![image](https://user-images.githubusercontent.com/2561857/102800928-

89054200-43ef-11eb-90e7-928c9eca27d4.png) 5. responses description and links: Define the responses for a API operations [reference](https://swagger.io/docs/specification/describing-responses/) example: ![image](https://user-images.githubusercontent.com/2561857/102801335-0b8e0180-43f0-11eb-8302-8741b769174d.png)

14. as for API Documentation, here is an example for both 2.0 and 3.0. https://editor.swagger.io/ ![image](https://user-images.githubusercontent.com/2106987/102836703-043d1700-4435-11eb-901a-ca39c275f6de.png) cc @membphis

15. > cc @membphis LGTM, thx

16. all the related PR have been merged, close it now

github_pulls:

1. **title:** feat(fe): import and export routes
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    label: code-design

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github_pulls_comments:

1. **body:** @liuxiran great work. Thank you very much. Only a small piece of advice, it would be more friendly to non-Chinese developers if you could take the screenshot of the English version. 😄
   label: code-design
2. > @liuxiran great work. Thank you very much. Only a small piece of advice, it would be more friendly to non-Chinese developers if you could take the screenshot of the English version. thanks a lot, the screenshots in the issue descirption have been updated ^_^
3. # [Codecov](https://codecov.io/gh/apache/apisix-dashboard/pull/1240?src=pr&el=h1) Report > Merging [#1240](https://codecov.io/gh/apache/apisix-dashboard/pull/1240?src=pr&el=desc) (2507fa8) into [master](https://codecov.io/gh/apache/apisix-dashboard/commit/6ee8dd15f22e10182a27cbfa4a69b56a3b0f9b43?el=desc) (6ee8dd1) will **increase** coverage by `0.27%`. > The diff coverage is `n/a`. [![Impacted file tree graph](https://codecov.io/gh/apache/apisix-dashboard/pull/1240/graphs/tree.svg?width=650&height=150&src=pr&token=Q1HERXN96P)](https://codecov.io/gh/apache/apisix-dashboard/pull/1240?src=pr&el=tree) ```diff @@ Coverage Diff @@ ## master #1240 +/- ## ======================================= + Coverage 65.48% 65.75% +0.27% ======================================= Files 44 44 Lines 2929 2929 ======================================= + Hits 1918 1926 +8 + Misses 782 771 -11 - Partials 229 232 +3 ``` | [Impacted Files](https://codecov.io/gh/apache/apisix-dashboard/pull/1240?src=pr&el=tree) | Coverage Δ | | |---|---|---| | | [api/internal/utils/closer.go](https://codecov.io/gh/apache/apisix-dashboard/pull/1240/diff?src=pr&el=tree#diff-YXBpL2ludGVybmFsL3V0aWxzL2Nsb3Nlci5nbw==) | `33.33% <0.00%> (ø)` | | | | [api/internal/core/store/store.go](https://codecov.io/gh/apache/apisix-dashboard/pull/1240/diff?src=pr&el=tree#diff-YXBpL2ludGVybmFsL2NvcmUvc3RvcmUvc3RvcmUuZ28=) | `87.27% <0.00%> (+1.21%)` | :arrow_up: | | [api/internal/core/storage/etcd.go](https://codecov.io/gh/apache/apisix-dashboard/pull/1240/diff?src=pr&el=tree#diff-YXBpL2ludGVybmFsL2NvcmUvc3RvcmFnZS9ldGNkLmdv) | `50.50% <0.00%> (+2.02%)` | :arrow_up: | | [api/cmd/managerapi.go](https://codecov.io/gh/apache/apisix-dashboard/pull/1240/diff?src=pr&el=tree#diff-YXBpL2NtZC9tYW5hZ2VyYXBpLmdv) | `60.29% <0.00%> (+5.88%)` | :arrow_up: | ------ [Continue to review full report at Codecov](https://codecov.io/gh/apache/apisix-dashboard/pull/1240?src=pr&el=continue). > **Legend** - [Click here to learn more](https://docs.codecov.io/docs/codecov-delta) > `Δ = absolute <relative> (impact)`, `ø = not affected`, `? = missing data` > Powered by [Codecov](https://codecov.io/gh/apache/apisix-dashboard/pull/1240?src=pr&el=footer). Last update [6ee8dd1...2507fa8](https://codecov.io/gh/apache/apisix-dashboard/pull/1240?src=pr&el=lastupdated). Read the [comment docs](https://docs.codecov.io/docs/pull-request-comments).
4. `yarn.lock` should be forced push IMO.
5. > `yarn.lock` should be forced push IMO. trying to update `yarn.lock`
6. https://github.com/apache/apisix-dashboard/pull/1240/checks?check_run_id=1700366308 be skywalking e2e test failed, pls take a look when you have time, many thanks~! @nic-chen @starsz
7. > https://github.com/apache/apisix-dashboard/pull/1240/checks?check_run_id=1700366308 > > be skywalking e2e test failed, pls take a look when you have time, many thanks~! @nic-chen @starsz Sorry, I am not very familiar with this. @nic-chen Can you help to deal with it? Otherwise, I will deal with it when I am free.
8. wait for the other 2 backends PRs.
9. I wiil deal with the fe e2e failure after related BE prs merged
10. during debug the FE e2e, I caught an error https://github.com/apache/apisix-dashboard/pull/1240/checks?check_run_id=1776569227, maybe this will be solved by #1372
11. as all the related PRs have been merged and CI passed, this pr is ready, merged, thanks for all your reviews

github_pulls_reviews:

1. ```suggestion 'page.route.button.exportOpenApi': '导出 OpenApi', ```
2. ditto.
3. ```suggestion JSON = 0, YAML ``` will be better.
4. fixed, thanks
5. fixed
6. fixed

7. ![image](https://user-images.githubusercontent.com/2106987/104534878-0ff4b580-5650-11eb-9aa1-b7878785aa64.png) ```suggestion 'page.route.button.importOpenApi': '导入 OpenAPI', ```
8. extra Fragment
9. **body:** number is not clear enough IMO, could we use keyof or something else to have a clearer typing?
   label: code-design
10. Please take a look at `file-saver` if it's helpful https://github.com/eligrey/FileSaver.js
11. ```suggestion import type { RcFile } from 'antd/lib/upload'; ```
12. > Please take a look at `file-saver` if it's helpful > > https://github.com/eligrey/FileSaver.js so cool~! it would be better than native approach, let me updated ASAP, thanks a lot @juzhiyuan
13. https://github.com/liuxiran/apisix-dashboard/blob/import_export_fe/web/src/pages/Route/locales/en-US.ts#L128-L130 😂
14. used `ExportFileType` instead, thanks a lot
15. fixed
16. fixed
17. fixed
18. extra line
19. done

jira_issues:

jira_issues_comments: