

安心云 Web 开发和生产环境切换优化

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安心云 Web 开发和生产环境切换优化

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本地部署服务 (开发模式)

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优化目标

针对我司 Web 项目，能够在 生产 / 开发 模式之间自由切换，不需要手动修改 client/index.html 等。

安心云 Web 侧

1. 清理代码

删除 client/index.js

```
/**
 * User: liuxinyi/liu.xinyi@free-sun.com.cn
 * Date: 2016/2/22
 * Time: 15:29
 *
 */
'use strict';

const views = require('koa-view');
const path = require('path');
const convert = require('koa-convert');
const co = require('co');

module.exports = {
  entry: function (app, router, opts) {
    app.use(convert(views(__dirname)));

    router.get('*', co.wrap(function* (ctx){
      yield ctx.render(path.join(__dirname, './index'));
    }));
  }
};
```

修改 config.js

删除 client/index.js 后, 需删除 config.js 中对应的中间件配置:

```
mws: [{
  entry: require('./client').entry,
  opts: {}
}]
```

删除 client/index.html

开发模式下, Web 服务器默认使用 client/index.html 静态文件, 而不使用 webpack-dev-server 内存中的 index.html。

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title></title>
  <link rel="shortcut icon" href="/assets/images/favicon.ico">
  <link rel="stylesheet" type="text/css" href="/assets/font_sc/iconfont.css">
</head>
<body style="background: #eee">
  <div id='App' />
  <script type="text/javascript" src="/assets/js/glendale-bim/1.9.0jquery.js">
</script>
  <script type="text/javascript" src="/assets/js/glendale-bim/3dEngine.js">
</script>
  <script type="text/javascript"
src="https://a.alipayobjects.com/g/datavis/g6/1.0.6/index.js"></script>
```

```
<script type="text/javascript"
src="http://localhost:5001/client/build/vendor.js"></script>
<script type="text/javascript"
src="http://localhost:5001/client/build/app.js"></script>

</body>
</html>
```

2. 清理 npm 包

- 升级 `koa-proxy` 包至最新版本, 当前版本: `1.0.0-alpha.3`
- 删除 `koa-convert` 包 (`koa-proxy` 升级后, 项目不再需要)
- 删除 `koa-view` 包 (`client/index.js` 删除后, 项目不再需要)

3. 通用代码

页面标题设置

`client/src/app.js` 中固定了页面标题, 可以使用 `html-webpack-plugin` 自定义 `title`。

```
// document.title = '安心云';
```

index.ejs

`client/index.ejs` 如下:

```
<!DOCTYPE html>
<html>

<head>
  <meta charset="UTF-8">

  <title>
    <%= htmlWebpackPlugin.options.title %>
  </title>

  <link rel="shortcut icon" href="/assets/images/favicon.ico">
  <link rel="stylesheet" type="text/css" href="/assets/font_sc/iconfont.css">
</head>

<body style="background: #eee">
  <div id='App' />

  <script type="text/javascript" src="/assets/js/glendale-bim/1.9.0jquery.js">
</script>
  <script type="text/javascript" src="/assets/js/glendale-bim/3dEngine.js">
</script>
  <script type="text/javascript"
src="https://a.alipayobjects.com/g/datavis/g6/1.0.6/index.js"></script>

</body>
```

```
</html>
```

4. 开发模式

在开发阶段，我们使用 webpack-dev-server 启动一个**基于内存**的开发服务器进行开发。

webpack.config.js

为了和生产环境 build 目录做区分，定义 publicPath: '/dist/'。

```
var path = require('path');
var webpack = require('webpack');
var BundleAnalyzerPlugin = require('webpack-bundle-analyzer').BundleAnalyzerPlugin;

var HtmlWebpackPlugin = require('html-webpack-plugin');

require('babel-polyfill');

const PATHS = {
  app: path.join(__dirname, 'client/src'),
  // build: path.join(__dirname, 'client/build')
};

module.exports = {
  devtool: 'source-map',
  entry: {
    app: ["babel-polyfill", PATHS.app]
  },
  output: {
    // publicPath: 'http://localhost:5001/client/build',
    publicPath: '/dist/',
    // path: PATHS.build,
    filename: '[name].js'
  },
  resolve: {
    modules: [path.resolve(__dirname, 'client/src'), path.resolve(__dirname, 'node_modules')],
    extensions: ['.js', '.jsx'],
    alias: { moment$: 'moment/moment.js' }
  },
  plugins: [
    new webpack.DefinePlugin({
      'process.env.NODE_ENV': JSON.stringify('development')
    }),
    new webpack.HotModuleReplacementPlugin(),
    new BundleAnalyzerPlugin(),
    new webpack.optimize.CommonsChunkPlugin({
      name: "vendor", minChunks: ({ resource }) => (
        resource &&
        resource.indexOf('node_modules') >= 0 &&
        resource.match(/\.js$/)
      ),
    }),
    new HtmlWebpackPlugin({
```

```

        title: 'DEV: 安心云',
        filename: 'index.html', // relative to devServer.publicPath
        template: './client/index.ejs'
    })
  ],
  module: {
    rules: [{
      test: /\.css$/,
      use: ['style-loader', 'css-loader?modules&camelCase']
    },
    {
      test: /\.less$/,
      use: ['style-loader', 'css-loader', 'less-loader']
    },
    {
      test: /\.jsx?$/,
      use: 'babel-loader',
      include: PATHS.app
    }
  ]
}
};

```

webpack-dev.js

middlewares/webpack-dev.js 内容如下:

```

/**
 * Created by liu.xinyi
 * on 2016/7/1.
 */
'use strict';

const WebpackDevServer = require('webpack-dev-server');
const proxy = require('koa-proxy');

const webpack = require('webpack');
const devConfig = require('../webpack.config');

const compile = webpack(devConfig);

module.exports = {
  entry: function (app, router, opts) {
    app.use(proxy({
      host: 'http://localhost:5001',
      match: /\dist\/,
      map: function (path) {
        // return 'client' + path;
        return path.replace('/dist/', '/');
      }
    }));
  }
});

app.use(proxy({
  host: 'http://localhost:5001',
  match: /\$/,
  map: function (path) {
    // return 'client/build/index.html';
  }
}));

```

```

        return 'index.html';
    }
    }));

    var server = new WebpackDevServer(compile, {
        hot: true,
        quiet: false,
        noInfo: true,
        // publicPath: "http://localhost:5001/client/build/", // defaults to
    });

    stats: { colors: true }
});

server.listen('5001', 'localhost', function (err) {
    if (err) {
        console.log(err);
    }
})
}
};

```

5. 生产模式

webpack.config.prod.js

html-webpack-plugin 插件添加 title 属性, 其他不变:

```

new HtmlWebpackPlugin({
    title: '安心云',
    filename: '../index.html',
    template: './client/index.ejs'
})

```

开发 / 生产 环境切换

package.json

cross-env 包

使用 cross-env 解决 Windows 和 POSIX 不同平台下 环境变量 的设置和使用的差异性问题。

```

# 安装开发依赖包
npm install cross-env -D

```

npm 脚本

```

"scripts": {
  "test": "mocha",
  "clear": "rm -rf client/build/* client/index.html",
  "start": "cross-env NODE_ENV=development node server -p 5000 -u
http://localhost:8081 --qnak 5XrM4WEB9YU6RQWT64sPzzE6cYFKZgssdP5Kj3uu --qnsk
w6j2ixR_i-ae1c6I7S3HotKIX-ukmZckMDFH6-M5 --qnbkt anxinyun-test --qndmn
http://test.resources.anxinyun.cn --webhdfs http://10.8.30.35:50070 -i
https://console.theiota.cn -a
MDM2ZThkYTA2YjYyMDE0ZGZhMWNjNDY3MmZkYTdmZdkMmY0MDg0MT05MWJlOTM1YzllYmMyYzlhZDE4
YjRlYWVmNmZyZmWn2M4NDVjMjdh",
  "deploy": "cross-env NODE_ENV=production npm run build && cross-env
NODE_ENV=production node server -p 5000 -u http://localhost:8081 --qnak
5XrM4WEB9YU6RQWT64sPzzE6cYFKZgssdP5Kj3uu --qnsk w6j2ixR_i-ae1c6I7S3HotKIX-
ukmZckMDFH6-M5 --qnbkt anxinyun-test --qndmn http://test.resources.anxinyun.cn --
webhdfs http://10.8.30.35:50070 -i https://console.theiota.cn -a
MDM2ZThkYTA2YjYyMDE0ZGZhMWNjNDY3MmZkYTdmZdkMmY0MDg0MT05MWJlOTM1YzllYmMyYzlhZDE4
YjRlYWVmNmZyZmWn2M4NDVjMjdh",
  "build": "webpack --config webpack.config.prod.js"
},

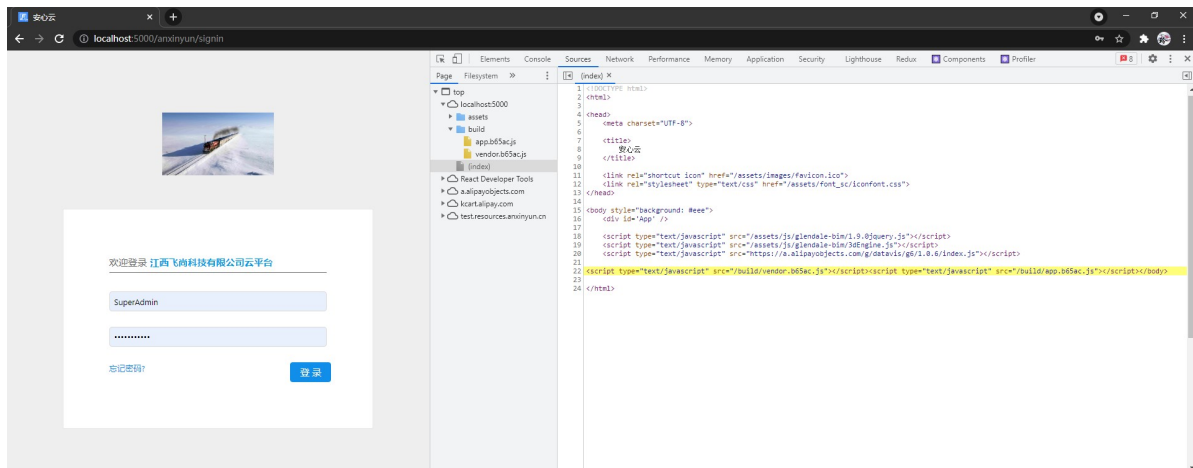
```

本地部署服务 (生产模式)

服务启动

```
npm run deploy
```

部署效果



index.html

```

<!DOCTYPE html>
<html>

<head>
  <meta charset="UTF-8">

  <title>
    安心云
  </title>

```

```

<link rel="shortcut icon" href="/assets/images/favicon.ico">
<link rel="stylesheet" type="text/css" href="/assets/font_sc/iconfont.css">
</head>

<body style="background: #eee">
  <div id='App' />

  <script type="text/javascript" src="/assets/js/glendale-bim/1.9.0jquery.js">
</script>
  <script type="text/javascript" src="/assets/js/glendale-bim/3dEngine.js">
</script>
  <script type="text/javascript"
src="https://a.alipayobjects.com/g/datavis/g6/1.0.6/index.js"></script>

<script type="text/javascript" src="/build/vendor.b65ac.js"></script><script
type="text/javascript" src="/build/app.b65ac.js"></script></body>

</html>

```

本地部署服务 (开发模式)

服务启动

- 主要清理生产环境生成的 index.html

```

pengling@FSZJ-PENGLING:~/mnt/e/workspace/FS-Anxinyun/trunk/codes/web/console$ npm
run clear

```

```

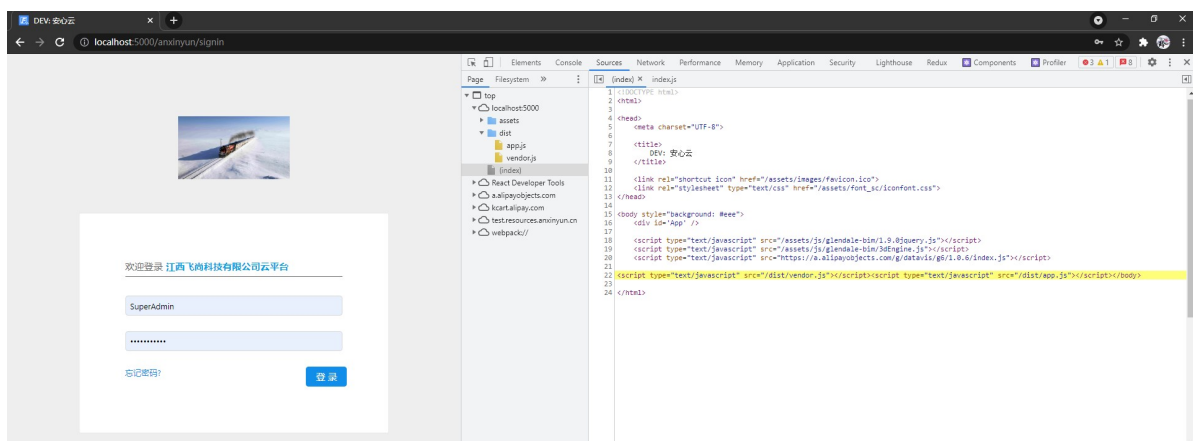
> anxinyun-console@1.0.0 clear /mnt/e/workspace/FS-
Anxinyun/trunk/codes/web/console
> rm -rf client/build/* client/index.html

```

- 启动服务

```
npm start
```

部署效果



index.html

localhost:5000/index.html 内容如下:

```
<!DOCTYPE html>
<html>

<head>
  <meta charset="UTF-8">

  <title>
    DEV: 安心云
  </title>

  <link rel="shortcut icon" href="/assets/images/favicon.ico">
  <link rel="stylesheet" type="text/css" href="/assets/font_sc/iconfont.css">
</head>

<body style="background: #eee">
  <div id='App' />

  <script type="text/javascript" src="/assets/js/glendale-bim/1.9.0jquery.js">
</script>
  <script type="text/javascript" src="/assets/js/glendale-bim/3dEngine.js">
</script>
  <script type="text/javascript"
src="https://a.alipayobjects.com/g/datavis/g6/1.0.6/index.js"></script>

<script type="text/javascript" src="/dist/vendor.js"></script><script
type="text/javascript" src="/dist/app.js"></script></body>

</html>
```