



链滴

前端时空 - 手把手教你搞定 vue-cli4 配置

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项目: github.com/staven630/v...

细致全面的 vue-cli4 配置信息。涵盖了使用 vue-cli 开发过程中大部分配置需求。

目录

- ✓ [配置多环境变量](#)
- ✓ [配置基础 vue.config.js](#)
- ✓ [配置 proxy 跨域](#)
- ✓ [修复 HMR\(热更新\)失效](#)
- ✓ [修复 Lazy loading routes Error: Cyclic dependency](#)
- ✓ [添加别名 alias](#)
- ✓ [压缩图片](#)
- ✓ [自动生成雪碧图](#)
- ✓ [SVG 转 font 字体](#)
- ✓ [使用 SVG 组件](#)
- ✓ [去除多余无效的 css](#)
- ✓ [添加打包分析](#)
- ✓ [配置 externals 引入 cdn 资源](#)
- ✓ [多页面打包 multi-page](#)
- ✓ [删除 moment 语言包](#)
- ✓ [去掉 console.log](#)
- ✓ [利用 splitChunks 单独打包第三方模块](#)
- ✓ [开启 gzip 压缩](#)
- ✓ [开启 stylelint 检测scss, css语法](#)
- ✓ [为 sass 提供全局样式, 以及全局变量](#)
- ✓ [为 stylus 提供全局变量](#)
- ✓ [预渲染 prerender-spa-plugin](#)
- ✓ [添加 IE 兼容](#)
- ✓ [静态资源自动打包上传阿里 oss、华为 obs](#)
- ✓ [完整依赖](#)

☐white_check_mark **配置多环境变量**

☐通过在 package.json 里的 scripts 配置项中添加--mode xxx 来选择不同环境

☐只有以 VUE_APP 开头的变量会被 webpack.DefinePlugin 静态嵌入到客户端侧的包中, 代码中可通过 process.env.VUE_APP_BASE_API 访问

☐☐NODE_ENV 和 BASE_URL 是两个特殊变量，在代码中始终可用

配置

☐☐在项目根目录中新建.env, .env.production, .env.analyz 等文件

- .env

☐☐serve 默认的本地开发环境配置

```
NODE_ENV = "development"
```

```
BASE_URL = "./"
```

```
VUE_APP_PUBLIC_PATH = "./"
```

```
VUE_APP_API = "https://test.staven630.com/api"复制代码
```

- .env.production

☐☐build 默认的环境配置（正式服务器）

```
NODE_ENV = "production"
```

```
BASE_URL = "https://prod.staven630.com/"
```

```
VUE_APP_PUBLIC_PATH = "https://prod.oss.com/staven-blog"
```

```
VUE_APP_API = "https://prod.staven630.com/api"
```

```
ACCESS_KEY_ID = "xxxxxxxxxxxxxx"
```

```
ACCESS_KEY_SECRET = "xxxxxxxxxxxxxx"
```

```
REGION = "oss-cn-hangzhou"
```

```
BUCKET = "staven-prod"
```

```
PREFIX = "staven-blog"复制代码
```

- .env.crm

☐☐自定义 build 环境配置（预发服务器）

```
NODE_ENV = "production"
```

```
BASE_URL = "https://crm.staven630.com/"
```

```
VUE_APP_PUBLIC_PATH = "https://crm.oss.com/staven-blog"
```

```
VUE_APP_API = "https://crm.staven630.com/api"
```

```
ACCESS_KEY_ID = "xxxxxxxxxxxxx"
```

```
ACCESS_KEY_SECRET = "xxxxxxxxxxxxx"
```

```
REGION = "oss-cn-hangzhou"
```

```
BUCKET = "staven-crm"
```

```
PREFIX = "staven-blog"
```

```
IS_ANALYZE = true;复制代码
```

📄修改 package.json

```
"scripts": {  
  "build": "vue-cli-service build",  
  "crm": "vue-cli-service build --mode crm"
```

```
}复制代码
```

使用环境变量

```
<template>  
  <div class="home">  
    <!-- template中使用环境变量 -->  
    API: {{ api }}  
  </div>  
</template>  
  
<script>  
export default {  
  name: "home",  
  data() {
```

```
return {  
  api: process.env.VUE_APP_API  
};  
},  
mounted() {  
  // js代码中使用环境变量  
  console.log("BASE_URL: ", process.env.BASE_URL);  
  console.log("VUE_APP_API: ", process.env.VUE_APP_API);  
}  
};
```

</script>复制代码

▲ [回顶部](#)

👁white_check_mark 配置基础 vue.config.js

```
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);  
  
module.exports = {  
  publicPath: IS_PROD ? process.env.VUE_APP_PUBLIC_PATH : "./", // 默认 '/', 部署应用包时的  
  本 URL  
  // outputDir: process.env.outputDir || 'dist', // 'dist', 生产环境构建文件的目录  
  // assetsDir: "", // 相对于outputDir的静态资源(js、css、img、fonts)目录  
  lintOnSave: false,  
  runtimeCompiler: true, // 是否使用包含运行时编译器的 Vue 构建版本  
  productionSourceMap: !IS_PROD, // 生产环境的 source map  
  parallel: require("os").cpus().length > 1,  
  pwa: {}  
};复制代码
```

▲ [回顶部](#)

white_check_mark 配置 proxy 代理解决跨域问题

假设 mock 接口为www.easy-mock.com/mock/5bc75b...

```
module.exports = {
  devServer: {
    // overlay: { // 让浏览器 overlay 同时显示警告和错误
    // warnings: true,
    // errors: true
    // },
    // open: false, // 是否打开浏览器
    // host: "localhost",
    // port: "8080", // 代理断就
    // https: false,
    // hotOnly: false, // 热更新
    proxy: {
      "/api": {
        target:
          "https://www.easy-mock.com/mock/5bc75b55dc36971c160cad1b/sheets", // 目标代理
        口地址
        secure: false,
        changeOrigin: true, // 开启代理, 在本地创建一个虚拟服务端
        // ws: true, // 是否启用websockets
        pathRewrite: {
          "^/api": "/"
        }
      }
    }
  }
}
```

```
}
```

};复制代码

访问

```
<script>
```

```
import axios from "axios";
```

```
export default {
```

```
  mounted() {
```

```
    axios.get("/api/1").then(res => {
```

```
      console.log('proxy:', res);
```

```
    });
```

```
  }
```

```
};
```

```
</script>复制代码
```

▲ 回顶部

white_check_mark **修复 HMR(热更新)失效**

如果热更新失效，如下操作：

```
module.exports = {
```

```
  chainWebpack: config => {
```

```
    // 修复HMR
```

```
    config.resolve.symlinks(true);
```

```
  }
```

};复制代码

▲ 回顶部

white_check_mark **修复 Lazy loading routes Error: Cyclic dependence**
cy <https://github.com/vuejs/vue-cli/issues/1669>

```
module.exports = {
  chainWebpack: config => {
    // 如果使用多页面打包, 使用vue inspect --plugins查看html是否在结果数组中
    config.plugin("html").tap(args => {
      // 修复 Lazy loading routes Error
      args[0].chunksSortMode = "none";
      return args;
    });
  }
};复制代码
```

▲ [回顶部](#)

👁️white_check_mark **添加别名 alias**

```
const path = require("path");
const resolve = dir => path.join(__dirname, dir);
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);

module.exports = {
  chainWebpack: config => {
    // 添加别名
    config.resolve.alias
      .set("vue$", "vue/dist/vue.esm.js")
      .set("@", resolve("src"))
      .set("@assets", resolve("src/assets"))
      .set("@scss", resolve("src/assets/scss"))
      .set("@components", resolve("src/components"))
      .set("@plugins", resolve("src/plugins"))
  }
};
```



```
.set("@views", resolve("src/views"))
.set("@router", resolve("src/router"))
.set("@store", resolve("src/store"))
.set("@layouts", resolve("src/layouts"))
.set("@static", resolve("src/static"));
}
```

};复制代码

▲ [回顶部](#)

☐white_check_mark **压缩图片**

npm i -D image-webpack-loader复制代码

☐☐在某些版本的 OSX 上安装可能会因缺少 libpng 依赖项而引发错误。可以通过安装最新版本的 libpng 来解决。

brew install libpng复制代码

```
module.exports = {
  chainWebpack: config => {
    if (IS_PROD) {
      config.module
        .rule("images")
        .use("image-webpack-loader")
        .loader("image-webpack-loader")
        .options({
          mozjpeg: { progressive: true, quality: 65 },
          optipng: { enabled: false },
          pngquant: { quality: [0.65, 0.9], speed: 4 },
          gifsicle: { interlaced: false }
        })
    }
  }
}
```

```
    // webp: { quality: 75 }  
  });  
}  
}
```

};复制代码

▲ [回顶部](#)

☐white_check_mark **自动生成雪碧图**

☐默认 src/assets/icons 中存放需要生成雪碧图的 png 文件。首次运行 npm run serve/build 会生成雪碧图，并在跟目录生成 icons.json 文件。再次运行命令时，会对比 icons 目录内文件与 icons.json 的匹配关系，确定是否需要再次执行 webpack-spritesmith 插件。

npm i -D webpack-spritesmith复制代码

```
let has_sprite = true;  
  
let files = [];  
  
const icons = {};  
  
try {  
  fs.statSync(resolve("./src/assets/icons"));  
  files = fs.readdirSync(resolve("./src/assets/icons"));  
  files.forEach(item => {  
    let filename = item.toLocaleLowerCase().replace(/_/g, "-");  
    icons[filename] = true;  
  });  
} catch (error) {  
  fs.mkdirSync(resolve("./src/assets/icons"));  
}
```

```
if (!files.length) {
  has_sprite = false;
} else {
  try {
    let iconsObj = fs.readFileSync(resolve("./icons.json"), "utf8");
    iconsObj = JSON.parse(iconsObj);
    has_sprite = files.some(item => {
      let filename = item.toLocaleLowerCase().replace(/_/g, "-");
      return !iconsObj[filename];
    });
    if (has_sprite) {
      fs.writeFileSync(resolve("./icons.json"), JSON.stringify(icons, null, 2));
    }
  } catch (error) {
    fs.writeFileSync(resolve("./icons.json"), JSON.stringify(icons, null, 2));
    has_sprite = true;
  }
}

// 雪碧图样式处理模板
const SpritesmithTemplate = function(data) {
  // pc
  let icons = {};
  let tpl = `.ico {
display: inline-block;
background-image: url(${data.sprites[0].image});
background-size: ${data.spritesheet.width}px ${data.spritesheet.height}px;
};
```

```

data.sprites.forEach(sprite => {
  const name = "" + sprite.name.toLocaleLowerCase().replace(/_/g, "-");
  icons[`${name}.png`] = true;
  tpl = `${tpl}
.ico-${name}{
  width: ${sprite.width}px;
  height: ${sprite.height}px;
  background-position: ${sprite.offset_x}px ${sprite.offset_y}px;
}
`;
});
return tpl;
};

module.exports = {
  configureWebpack: config => {
    const plugins = [];
    if (has_sprite) {
      plugins.push(
        new SpritesmithPlugin({
          src: {
            cwd: path.resolve(__dirname, "./src/assets/icons/"), // 图标根路径
            glob: "**/*.png" // 匹配任意 png 图标
          },
          target: {
            image: path.resolve(__dirname, "./src/assets/images/sprites.png"), // 生成雪碧图目标路
与名称

```

// 设置生成CSS背景及其定位的文件或方式

```
css: [  
  [  
    path.resolve(__dirname, "./src/assets/scss/sprites.scss"),  
    {  
      format: "function_based_template"  
    }  
  ]  
],  
customTemplates: {  
  function_based_template: SpritesmithTemplate  
},  
apiOptions: {  
  cssImageRef: "../images/sprites.png" // css文件中引用雪碧图的相对位置路径配置  
},  
spritesmithOptions: {  
  padding: 2  
}  
})  
);  
}  
  
config.plugins = [...config.plugins, ...plugins];  
}
```

};复制代码

▲ [回顶部](#)

white_check_mark SVG 转 font 字体

npm i -D svgtofont复制代码

根目录新增 scripts 目录, 并新建 svg2font.js 文件:

```
const svgtofont = require("svgtofont");
const path = require("path");
const pkg = require("../package.json");

svgtofont({
  src: path.resolve(process.cwd(), "src/assets/svg"), // svg 图标目录路径
  dist: path.resolve(process.cwd(), "src/assets/fonts"), // 输出到指定目录中
  fontName: "icon", // 设置字体名称
  css: true, // 生成字体文件
  startNumber: 20000, // unicode起始编号
  svgicons2svgfont: {
    fontHeight: 1000,
    normalize: true
  },
  // website = null, 没有演示html文件
  website: {
    title: "icon",
    logo: "",
    version: pkg.version,
    meta: {
      description: "",
      keywords: ""
    }
  },
}
```

```
description: `,  
links: [  
  {  
    title: "Font Class",  
    url: "index.html"  
  },  
  {  
    title: "Unicode",  
    url: "unicode.html"  
  }  
],  
footerInfo: `  
}  
}).then(() => {  
  console.log("done!");  
});复制代码
```

添加 package.json scripts 配置:

```
"prebuild": "npm run font",  
"font": "node scripts/svg2font.js",复制代码
```

执行:

```
npm run font复制代码
```

[▲ 回顶部](#)

white_check_mark **使用 SVG 组件**

```
npm i -D svg-sprite-loader复制代码
```

📄新增 SvgIcon 组件。

```
<template>
  <svg class="svg-icon"
    aria-hidden="true">
    <use :xlink:href="iconName" />
  </svg>
</template>

<script>
export default {
  name: 'SvgIcon',
  props: {
    iconClass: {
      type: String,
      required: true
    }
  },
  computed: {
    iconName() {
      return `#icon-${this.iconClass}`
    }
  }
}
</script>

<style scoped>
.svg-icon {
  width: 1em;
}
```



```
height: 1em;
vertical-align: -0.15em;
fill: currentColor;
overflow: hidden;
}
</style>复制代码
```

在 src 文件夹中创建 icons 文件夹。icons 文件夹中新增 svg 文件夹（用来存放 svg 文件）与 index.s 文件：

```
import SvgIcon from "@components/SvgIcon";
import Vue from "vue";

// 注册到全局
Vue.component("svg-icon", SvgIcon);

const requireAll = requireContext => requireContext.keys().map(requireContext);
const req = require.context("./svg", false, /\.svg$/);
requireAll(req);复制代码
```

在 main.js 中导入 icons/index.js

```
import "@/icons";复制代码
```

修改 vue.config.js

```
const path = require("path");
const resolve = dir => path.join(__dirname, dir);

module.exports = {
  chainWebpack: config => {
    const svgRule = config.module.rule("svg");
```

```
svgRule.uses.clear();

svgRule.exclude.add(/node_modules/);

svgRule
  .test(/\.svg$/)
  .use("svg-sprite-loader")
  .loader("svg-sprite-loader")
  .options({
    symbolId: "icon-[name]"
  });

const imagesRule = config.module.rule("images");
imagesRule.exclude.add(resolve("src/icons"));
config.module.rule("images").test(/\.(png|jpe?g|gif|svg)(\?.*)?$/);
}
};复制代码
```

▲ [回顶部](#)

👉white_check_mark **去除多余无效的 css**

👉注：谨慎使用。可能出现各种样式丢失现象。

- 方案一：@fullhuman/postcss-purgecss

`npm i -D postcss-import @fullhuman/postcss-purgecss`复制代码

👉更新 postcss.config.js

```
const autoprefixer = require("autoprefixer");
const postcssImport = require("postcss-import");
const purgecss = require("@fullhuman/postcss-purgecss");
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);
let plugins = [];
```

```
if (IS_PROD) {
  plugins.push(postcssImport);
  plugins.push(
    purgecss({
      content: [
        "./layouts/**/*.vue",
        "./components/**/*.vue",
        "./pages/**/*.vue"
      ],
      extractors: [
        {
          extractor: class Extractor {
            static extract(content) {
              const validSection = content.replace(
                /<style([\s\S]*?)</style>+/gim,
                ""
              );
              return (
                validSection.match(/[A-Za-z0-9-_/]*[A-Za-z0-9-_/]+/g) || []
              );
            }
          },
        ],
        extensions: ["html", "vue"]
      ]
    },
    whitelist: ["html", "body"],
    whitelistPatterns: [
```

```

    /el-.*/,
    /-(leave|enter|appear)(|-(to|from|active))$/,
    /^(?!cursor-move).+-move$/,
    /^router-link(|-exact)-active$/
  ],
  whitelistPatternsChildren: [/^token/, /^pre/, /^code/]
})
);
}

module.exports = {
  plugins: [...plugins, autoprefixer]
};复制代码

```

- 方案二: `purgecss-webpack-plugin`

```
npm i -D glob-all purgecss-webpack-plugin复制代码
```

```

const path = require("path");
const glob = require("glob-all");
const PurgecssPlugin = require("purgecss-webpack-plugin");
const resolve = dir => path.join(__dirname, dir);
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);

module.exports = {
  configureWebpack: config => {
    const plugins = [];
    if (IS_PROD) {
      plugins.push(

```

```

new PurgecssPlugin({
  paths: glob.sync([resolve("./**/*.vue")]),
  extractors: [
    {
      extractor: class Extractor {
        static extract(content) {
          const validSection = content.replace(
            /<style([\s\S]*?)<\style> +/gim,
            ""
          );
          return (
            validSection.match(/[A-Za-z0-9-_/]*[A-Za-z0-9-_/]+/g) || []
          );
        }
      },
      extensions: ["html", "vue"]
    }
  ],
  whitelist: ["html", "body"],
  whitelistPatterns: [
    /el-./,
    /-(leave|enter|appear)(|-(to|from|active))$/,
    /^(?!cursor-move).+-move$/,
    /^router-link(|-exact)-active$/
  ],
  whitelistPatternsChildren: [/^token/, /^pre/, /^code/]
})

```

```
    );  
  }  
  config.plugins = [...config.plugins, ...plugins];  
}  
};复制代码
```

▲ [回顶部](#)

📄white_check_mark **添加打包分析**

```
const BundleAnalyzerPlugin = require("webpack-bundle-analyzer")  
  .BundleAnalyzerPlugin;  
  
module.exports = {  
  chainWebpack: config => {  
    // 打包分析  
    if (IS_PROD) {  
      config.plugin("webpack-report").use(BundleAnalyzerPlugin, [  
        {  
          analyzerMode: "static"  
        }  
      ]);  
    }  
  }  
}  
};复制代码
```

▲ [回顶部](#)

📄white_check_mark **配置 externals 引入 cdn 资源**

📄防止将某些 import 的包(package)打包到 bundle 中，而是在运行时(runtime)再去从外部获取这扩展依赖

```

module.exports = {
  configureWebpack: config => {
    config.externals = {
      vue: "Vue",
      "element-ui": "ELEMENT",
      "vue-router": "VueRouter",
      vuex: "Vuex",
      axios: "axios"
    };
  },
  chainWebpack: config => {
    const cdn = {
      // 访问https://unpkg.com/element-ui/lib/theme-chalk/index.css获取最新版本
      css: ["//unpkg.com/element-ui@2.10.1/lib/theme-chalk/index.css"],
      js: [
        //unpkg.com/vue@2.6.10/dist/vue.min.js", // 访问https://unpkg.com/vue/dist/vue.min.js
        获取最新版本
        "//unpkg.com/vue-router@3.0.6/dist/vue-router.min.js",
        "//unpkg.com/vuex@3.1.1/dist/vuex.min.js",
        "//unpkg.com/axios@0.19.0/dist/axios.min.js",
        "//unpkg.com/element-ui@2.10.1/lib/index.js"
      ]
    };

    // 如果使用多页面打包，使用vue inspect --plugins查看html是否在结果数组中
    config.plugin("html").tap(args => {
      // html中添加cdn
      args[0].cdn = cdn;
    });
  }
};

```

```
    return args;
  });
}
```

};复制代码

在 html 中添加

```
<!-- 使用CDN的CSS文件 -->
```

```
<% for (var i in htmlWebpackPlugin.options.cdn &&
htmlWebpackPlugin.options.cdn.css) { %>
```

```
<link rel="stylesheet" href="<%= htmlWebpackPlugin.options.cdn.css[i] %>" />
```

```
<% } %>
```

```
<!-- 使用CDN的JS文件 -->
```

```
<% for (var i in htmlWebpackPlugin.options.cdn &&
htmlWebpackPlugin.options.cdn.js) { %>
```

```
<script
```

```
  type="text/javascript"
```

```
  src="<%= htmlWebpackPlugin.options.cdn.js[i] %>"
```

```
> </script>
```

```
<% } %>
```

复制代码

[▲ 回顶部](#)

white_check_mark **多页面打包 multi-page**

多入口页面打包，建议在 src 目录下新建 pages 目录存放多页面模块。

- pages.config.js

配置多页面信息。src/main.js 文件对应 main 字段，其他根据参照 pages 为根路径为字段。如下：


```
module.exports = {
  'admin': {
    template: 'public/index.html',
    filename: 'admin.html',
    title: '后台管理',
  },
  'mobile': {
    template: 'public/index.html',
    filename: 'mobile.html',
    title: '移动端',
  },
  'pc/crm': {
    template: 'public/index.html',
    filename: 'pc-crm.html',
    title: '预发服务',
  }
}
```

}复制代码

- vue.config.js

☐☐vue.config.js 的 pages 字段为多页面提供配置

```
const glob = require("glob");
const pagesInfo = require("./pages.config");
const pages = {};

glob.sync('./src/pages/**/*.main.js').forEach(entry => {
  let chunk = entry.match(/\.\/src\/pages\/(.*)\/main\.js/)[1];
  const curr = pagesInfo[chunk];
  if (curr) {
```

```
pages[chunk] = {
  entry,
  ...curr,
  chunk: ["chunk-vendors", "chunk-common", chunk]
}
}
})
```

```
module.exports = {
  chainWebpack: config => {
    // 防止多页面打包卡顿
    config => config.plugins.delete("named-chunks");

    return config;
  },
  pages
};复制代码
```

如果多页面打包需要使用 CDN，使用 `vue inspect --plugins` 查看 `html` 是否在结果数组中的形式。上例中 `plugins` 列表中存在 `'html-main'`, `'html-pages/admin'`, `'html-pages/mobile'`，没有 `'html'`。此不能再使用 `config.plugin("html")`。

```
const path = require("path");
const resolve = dir => path.join(__dirname, dir);
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);

const glob = require("glob");
const pagesInfo = require("./pages.config");
const pages = {};

glob.sync('./src/pages/**/*.main.js').forEach(entry => {
```

```
let chunk = entry.match(/\.\/src\/pages\/(.*)\/main\.js/)[1];
const curr = pagesInfo[chunk];
if (curr) {
  pages[chunk] = {
    entry,
    ...curr,
    chunk: ["chunk-vendors", "chunk-common", chunk]
  }
}
});

module.exports = {
  publicPath: IS_PROD ? process.env.VUE_APP_PUBLIC_PATH : "./", //
  configureWebpack: config => {
    config.externals = {
      vue: "Vue",
      "element-ui": "ELEMENT",
      "vue-router": "VueRouter",
      vuex: "Vuex",
      axios: "axios"
    };
  },
  chainWebpack: config => {
    const cdn = {
      // 访问https://unpkg.com/element-ui/lib/theme-chalk/index.css获取最新版本
      css: ["//unpkg.com/element-ui@2.10.1/lib/theme-chalk/index.css"],
      js: [
```

"//unpkg.com/vue@2.6.10/dist/vue.min.js", // 访问<https://unpkg.com/vue/dist/vue.min.js>
获取最新版本

```
"//unpkg.com/vue-router@3.0.6/dist/vue-router.min.js",
```

```
"//unpkg.com/vuex@3.1.1/dist/vuex.min.js",
```

```
"//unpkg.com/axios@0.19.0/dist/axios.min.js",
```

```
"//unpkg.com/element-ui@2.10.1/lib/index.js"
```

```
]
```

```
};
```

```
// 防止多页面打包卡顿
```

```
config => config.plugins.delete("named-chunks");
```

```
// 多页面cdn添加
```

```
Object.keys(pagesInfo).forEach(page => {
```

```
  config.plugin(`html-${page}`).tap(args => {
```

```
    // html中添加cdn
```

```
    args[0].cdn = cdn;
```

```
    // 修复 Lazy loading routes Error
```

```
    args[0].chunksSortMode = "none";
```

```
    return args;
```

```
  });
```

```
});
```

```
return config;
```

```
},
```

```
pages
```

```
};复制代码
```

[▲ 回顶部](#)

👁white_check_mark **删除 moment 语言包**

🗑️删除 moment 除 zh-cn 中文包外的其它语言包，无需在代码中手动引入 zh-cn 语言包。

```
const webpack = require("webpack");

module.exports = {
  chainWebpack: config => {
    config
      .plugin("ignore")
      .use(
        new webpack.ContextReplacementPlugin(/moment[\\/]locale$/, /zh-cn$/)
      );

    return config;
  }
};复制代码
```

▲ [回顶部](#)

👁️white_check_mark **去掉 console.log**

方法一：使用 babel-plugin-transform-remove-console 插件

```
npm i -D babel-plugin-transform-remove-console复制代码
```

在 babel.config.js 中配置

```
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);

const plugins = [];

if (IS_PROD) {
  plugins.push("transform-remove-console");
}
```

```
module.exports = {  
  presets: ["@vue/app", { useBuiltIns: "entry" }],  
  plugins  
};
```

复制代码

方法二:

```
const UglifyJsPlugin = require("uglifyjs-webpack-plugin");  
module.exports = {  
  configureWebpack: config => {  
    if (IS_PROD) {  
      const plugins = [];  
      plugins.push(  
        new UglifyJsPlugin({  
          uglifyOptions: {  
            compress: {  
              warnings: false,  
              drop_console: true,  
              drop_debugger: false,  
              pure_funcs: ["console.log"] //移除console  
            }  
          },  
          sourceMap: false,  
          parallel: true  
        })  
      );  
      config.plugins = [...config.plugins, ...plugins];
```

```
    }  
  }  
};复制代码
```

如果使用了 `uglifyjs-webpack-plugin` 会报错，可能存在 `node_modules` 中有些依赖需要 `babel` 转

而 `vue-cli` 的 `transpileDependencies` 配置默认为 `[]`，`babel-loader` 会忽略所有 `node_modules` 中文件。如果你想要通过 `Babel` 显式转译一个依赖，可以在这个选项中列出来。配置需要转译的第三方

[▲ 回顶部](#)

利用 `splitChunks` 单独打包第三方模块

```
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);
```

```
module.exports = {  
  configureWebpack: config => {  
    if (IS_PROD) {  
      config.optimization = {  
        splitChunks: {  
          cacheGroups: {  
            common: {  
              name: "chunk-common",  
              chunks: "initial",  
              minChunks: 2,  
              maxInitialRequests: 5,  
              minSize: 0,  
              priority: 1,  
              reuseExistingChunk: true,  
              enforce: true  
            },  
          },  
        },  
      },  
    }  
  }  
};
```

```
vendors: {
  name: "chunk-vendors",
  test: /[\\]node_modules[\\]/,
  chunks: "initial",
  priority: 2,
  reuseExistingChunk: true,
  enforce: true
},
elementUI: {
  name: "chunk-elementui",
  test: /[\\]node_modules[\\]element-ui[\\]/,
  chunks: "all",
  priority: 3,
  reuseExistingChunk: true,
  enforce: true
},
echarts: {
  name: "chunk-echarts",
  test: /[\\]node_modules[\\](vue-)?echarts[\\]/,
  chunks: "all",
  priority: 4,
  reuseExistingChunk: true,
  enforce: true
}
}
}
};
```



```
    }  
  },  
  chainWebpack: config => {  
    if (IS_PROD) {  
      config.optimization.delete("splitChunks");  
    }  
    return config;  
  }  
};复制代码
```

[▲ 回顶部](#)

📄white_check_mark **开启 gzip 压缩**

`npm i -D compression-webpack-plugin`复制代码

```
const CompressionWebpackPlugin = require("compression-webpack-plugin");  
  
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);  
const productionGzipExtensions = /\.(js|css|json|txt|html|ico|svg)(\?.*)?$/i;  
  
module.exports = {  
  configureWebpack: config => {  
    const plugins = [];  
    if (IS_PROD) {  
      plugins.push(  
        new CompressionWebpackPlugin({  
          filename: "[path].gz[query]",  
          algorithm: "gzip",  
          test: productionGzipExtensions,  
        })  
      );  
    }  
    return {  
      plugins,  
    };  
  }  
};复制代码
```

```
    threshold: 10240,  
    minRatio: 0.8  
  })  
);  
}  
config.plugins = [...config.plugins, ...plugins];  
}  
};复制代码
```

还可以开启比 gzip 体验更好的 Zopfli 压缩详见[webpack.js.org/plugins/com...](https://webpack.js.org/plugins/compression-webpack-plugin/)

```
npm i -D @gfx/zopfli brotli-webpack-plugin复制代码
```

```
const CompressionWebpackPlugin = require("compression-webpack-plugin");  
const zopfli = require("@gfx/zopfli");  
const BrotliPlugin = require("brotli-webpack-plugin");  
  
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);  
const productionGzipExtensions = /\.(js|css|json|txt|html|ico|svg)(\?.*)?$/i;  
  
module.exports = {  
  configureWebpack: config => {  
    const plugins = [];  
    if (IS_PROD) {  
      plugins.push(  
        new CompressionWebpackPlugin({  
          algorithm(input, compressionOptions, callback) {  
            return zopfli.gzip(input, compressionOptions, callback);  
          },  
        })  
      );  
    }  
  }  
};
```

```
    compressionOptions: {
      numiterations: 15
    },
    minRatio: 0.99,
    test: productionGzipExtensions
  })
);
plugins.push(
  new BrotliPlugin({
    test: productionGzipExtensions,
    minRatio: 0.99
  })
);
}
config.plugins = [...config.plugins, ...plugins];
}
};复制代码
```

▲ [回顶部](#)

👉white_check_mark **开启 stylelint 检测scss, css语法**

```
npm i -D stylelint stylelint-config-standard stylelint-config-prettier stylelint-webpack-plugin
制代码
```

在文件夹创建stylelint.config.js,详细配置在[这里](#)

```
module.exports = {
  ignoreFiles: ["**/*.js", "src/assets/css/element-variables.scss", "theme/"],
  extends: ["stylelint-config-standard", "stylelint-config-prettier"],
  rules: {
```

```
"no-empty-source": null,  
"at-rule-no-unknown": [  
  true,  
  {  
    ignoreAtRules: ["extend"]  
  }  
]  
}  
};复制代码
```

启用webpack配置

```
const StylelintPlugin = require("stylelint-webpack-plugin");  
  
module.exports = {  
  configureWebpack: config => {  
    const plugins = [];  
    if (IS_DEV) {  
      plugins.push(  
        new StylelintPlugin({  
          files: ["src/**/*.vue", "src/assets/**/*.scss"],  
          fix: true //打开自动修复（谨慎使用！注意上面的配置不要加入js或html文件，会发生问题，js  
          件请手动修复）  
        })  
      );  
    }  
    config.plugins = [...config.plugins, ...plugins];  
  }  
}复制代码
```

▲ [回顶部](#)

white_check_mark 为 sass 提供全局样式，以及全局变量

可以通过在 main.js 中 `Vue.prototype.src = process.env.VUE_APP_PUBLIC_PATH`; 挂载环境变量的配置信息，然后在 js 中使用 src 访问。

css 中可以使用注入 sass 变量访问环境变量中的配置信息

```
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);

module.exports = {
  css: {
    extract: IS_PROD,
    sourceMap: false,
    loaderOptions: {
      scss: {
        // 向全局sass样式传入共享的全局变量, $src可以配置图片cdn前缀
        // 详情: https://cli.vuejs.org/guide/css.html#passing-options-to-pre-processor-loaders
        prependData: `
          @import "@scss/variables.scss";
          @import "@scss/mixins.scss";
          @import "@scss/function.scss";
          $src: "${process.env.VUE_APP_OSS_SRC}";
          `
      }
    }
  }
};复制代码
```

在 scss 中引用

```
.home {  
  background: url($src+"/images/500.png");  
}  
}复制代码
```

▲ [回顶部](#)

📄white_check_mark 为 stylus 提供全局变量

```
npm i -D style-resources-loader复制代码
```

```
const path = require("path");  
const resolve = dir => path.resolve(__dirname, dir);  
const addStylusResource = rule => {  
  rule  
    .use("style-resouce")  
    .loader("style-resources-loader")  
    .options({  
      patterns: [resolve("src/assets/stylus/variable.styl")]  
    });  
};  
module.exports = {  
  chainWebpack: config => {  
    const types = ["vue-modules", "vue", "normal-modules", "normal"];  
    types.forEach(type =>  
      addStylusResource(config.module.rule("stylus").oneOf(type))  
    );  
  }  
};复制代码
```

▲ [回顶部](#)

预渲染 prerender-spa-plugin

`npm i -D prerender-spa-plugin`[复制代码](#)

```
const PrerenderSpaPlugin = require("prerender-spa-plugin");
const path = require("path");
const resolve = dir => path.join(__dirname, dir);
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);

module.exports = {
  configureWebpack: config => {
    const plugins = [];
    if (IS_PROD) {
      plugins.push(
        new PrerenderSpaPlugin({
          staticDir: resolve("dist"),
          routes: ["/"],
          postProcess(ctx) {
            ctx.route = ctx.originalRoute;
            ctx.html = ctx.html.split(/>[\s]+</gim).join("><");
            if (ctx.route.endsWith(".html")) {
              ctx.outputPath = path.join(__dirname, "dist", ctx.route);
            }
            return ctx;
          },
          minify: {
            collapseBooleanAttributes: true,
```

```
collapseWhitespace: true,
decodeEntities: true,
keepClosingSlash: true,
sortAttributes: true
},
renderer: new PrerenderSpaPlugin.PuppeteerRenderer({
  // 需要注入一个值，这样就可以检测页面当前是否是预渲染的
  inject: {},
  headless: false,
  // 视图组件是在API请求获取所有必要数据后呈现的，因此我们在dom中存在“data view”
  // 性后创建页面快照
  renderAfterDocumentEvent: "render-event"
})
});
};复制代码
```

在mounted()中添加 document.dispatchEvent(new Event('render-event'))

```
new Vue({
  router,
  store,
  render: h => h(App),
  mounted() {
    document.dispatchEvent(new Event("render-event"));
  }
})
```



```
}).$mount("#app");复制代码
```

为自定义预渲染页面添加自定义 title、description、content

- 删除 public/index.html 中关于 description、content 的 meta 标签。保留 title 标签
- 配置 router-config.js

```
module.exports = {  
  "/": {  
    title: "首页",  
    keywords: "首页关键词",  
    description: "这是首页描述"  
  },  
  "/about.html": {  
    title: "关于我们",  
    keywords: "关于我们页面关键词",  
    description: "关于我们页面关键词描述"  
  }  
}
```

```
};复制代码
```

- vue.config.js

```
const path = require("path");  
const PrerenderSpaPlugin = require("prerender-spa-plugin");  
const routesConfig = require("./router-config");  
const resolve = dir => path.join(__dirname, dir);  
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);  
  
module.exports = {  
  configureWebpack: config => {
```

```
const plugins = [];  
  
if (IS_PROD) {  
  // 预加载  
  plugins.push(  
    new PrerenderSpaPlugin({  
      staticDir: resolve("dist"),  
      routes: Object.keys(routesConfig),  
      postProcess(ctx) {  
        ctx.route = ctx.originalRoute;  
        ctx.html = ctx.html.split(/>[\s]+</gim).join("><");  
        ctx.html = ctx.html.replace(  
          /<title>(.*?)<\title>/gi,  
          `  
          <title>${  
            routesConfig[ctx.route].title  
          }</title> <meta name="keywords" content="${  
            routesConfig[ctx.route].keywords  
          }" /> <meta name="description" content="${  
            routesConfig[ctx.route].description  
          }" />`  
        );  
        if (ctx.route.endsWith(".html")) {  
          ctx.outputPath = path.join(__dirname, "dist", ctx.route);  
        }  
        return ctx;  
      },  
      minify: {  
        collapseBooleanAttributes: true,  

```

```
collapseWhitespace: true,
decodeEntities: true,
keepClosingSlash: true,
sortAttributes: true
},
renderer: new PrerenderSpaPlugin.PuppeteerRenderer({
  // 需要注入一个值，这样就可以检测页面当前是否是预渲染的
  inject: {},
  headless: false,
  // 视图组件是在API请求获取所有必要数据后呈现的，因此我们在dom中存在“data view”
  // 性后创建页面快照
  renderAfterDocumentEvent: "render-event"
})
});
};
};

config.plugins = [...config.plugins, ...plugins];
};复制代码
```

▲ [回顶部](#)

☐white_check_mark **添加 IE 兼容**

npm i -S @babel/polyfill复制代码

☐在 main.js 中添加

```
import "@babel/polyfill";复制代码
```

配置 babel.config.js

```
const plugins = [];  
  
module.exports = {  
  presets: [["@vue/app", { useBuiltIns: "entry" }]],  
  plugins: plugins  
};复制代码
```

▲ [回顶部](#)

👁white_check_mark **静态资源自动打包上传阿里 oss、华为 obs**

👁开启文件上传 ali oss，需要将 publicPath 改成 ali oss 资源 url 前缀,也就是修改 VUE_APP_PUBLIC_PATH。具体配置参见[阿里 oss 插件 webpack-oss](#)、[华为 obs 插件 huawei-obs-plugin](#)

npm i -D webpack-oss复制代码

```
const AliOssPlugin = require("webpack-oss");  
  
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);  
  
const format = AliOssPlugin.getFormat();  
  
module.exports = {  
  publicPath: IS_PROD ? `${process.env.VUE_APP_PUBLIC_PATH}/${format}` : './', // 默认'/', 部  
  应用包时的基本 URL  
  
  configureWebpack: config => {  
    const plugins = [];  
  
    if (IS_PROD) {  
      plugins.push(  
        new AliOssPlugin({  
          accessKeyId: process.env.ACCESS_KEY_ID,  
          accessKeySecret: process.env.ACCESS_KEY_SECRET,
```

```
    region: process.env.REGION,  
    bucket: process.env.BUCKET,  
    prefix: process.env.PREFIX,  
    exclude: /\.*\\.html$/,  
    format  
  })  
);  
}  
config.plugins = [...config.plugins, ...plugins];  
}  
};复制代码
```

▲ [回顶部](#)

👉white_check_mark **完整配置**

```
const SpritesmithPlugin = require("webpack-spritesmith");  
const BundleAnalyzerPlugin = require("webpack-bundle-analyzer")  
  .BundleAnalyzerPlugin;  
const webpack = require("webpack");  
  
const path = require("path");  
const fs = require("fs");  
const resolve = dir => path.join(__dirname, dir);  
const IS_PROD = ["production", "prod"].includes(process.env.NODE_ENV);  
  
const glob = require('glob')  
const pagesInfo = require('./pages.config')  
const pages = {}
```

```
glob.sync('./src/pages/**/main.js').forEach(entry => {
  let chunk = entry.match(/\.\/src\/pages\/(.*)\/main\.js/)[1];
  const curr = pagesInfo[chunk];
  if (curr) {
    pages[chunk] = {
      entry,
      ...curr,
      chunk: ["chunk-vendors", "chunk-common", chunk]
    }
  }
})

let has_sprite = true;
let files = [];
const icons = {};

try {
  fs.statSync(resolve("./src/assets/icons"));
  files = fs.readdirSync(resolve("./src/assets/icons"));
  files.forEach(item => {
    let filename = item.toLocaleLowerCase().replace(/_/g, "-");
    icons[filename] = true;
  });
} catch (error) {
  fs.mkdirSync(resolve("./src/assets/icons"));
}

if (!files.length) {
```

```

    has_sprite = false;
  } else {
    try {
      let iconsObj = fs.readFileSync(resolve("./icons.json"), "utf8");
      iconsObj = JSON.parse(iconsObj);
      has_sprite = files.some(item => {
        let filename = item.toLocaleLowerCase().replace(/_/g, "-");
        return !iconsObj[filename];
      });
      if (has_sprite) {
        fs.writeFileSync(resolve("./icons.json"), JSON.stringify(icons, null, 2));
      }
    } catch (error) {
      fs.writeFileSync(resolve("./icons.json"), JSON.stringify(icons, null, 2));
      has_sprite = true;
    }
  }
}

// 雪碧图样式处理模板
const SpritesmithTemplate = function (data) {
  // pc
  let icons = {}
  let tpl = `.ico {
display: inline-block;
background-image: url(${data.sprites[0].image});
background-size: ${data.spritesheet.width}px ${data.spritesheet.height}px;
}`
}

```

```

data.sprites.forEach(sprite => {
  const name = '' + sprite.name.toLocaleLowerCase().replace(/_/g, '-')
  icons[`${name}.png`] = true
  tpl = `${tpl}
.ico-${name}{
  width: ${sprite.width}px;
  height: ${sprite.height}px;
  background-position: ${sprite.offset_x}px ${sprite.offset_y}px;
}
`
})
return tpl
}

module.exports = {
  publicPath: IS_PROD ? process.env.VUE_APP_PUBLIC_PATH : './', // 默认 '/', 部署应用包时的本 URL
  // outputDir: process.env.outputDir || 'dist', // 'dist', 生产环境构建文件的目录
  // assetsDir: '', // 相对于outputDir的静态资源(js、css、img、fonts)目录
  configureWebpack: config => {
    const plugins = [];

    if (has_sprite) {
      // 生成雪碧图
      plugins.push(
        new SpritesmithPlugin({
          src: {
            cwd: path.resolve(__dirname, './src/assets/icons/'), // 图标根路径
            glob: '**/*.png' // 匹配任意 png 图标
          }
        })
      )
    }
  }
}

```



```
    },
    target: {
      image: path.resolve(__dirname, './src/assets/images/sprites.png'), // 生成雪碧图目标路
与名称
      // 设置生成CSS背景及其定位的文件或方式
      css: [
        [
          path.resolve(__dirname, './src/assets/scss/sprites.scss'),
          {
            format: 'function_based_template'
          }
        ]
      ]
    },
    customTemplates: {
      function_based_template: SpritesmithTemplate
    },
    apiOptions: {
      cssImageRef: '../images/sprites.png' // css文件中引用雪碧图的相对位置路径配置
    },
    spritesmithOptions: {
      padding: 2
    }
  })
)
}

config.externals = {
```

```
vue: "Vue",
"element-ui": "ELEMENT",
"vue-router": "VueRouter",
vuex: "Vuex",
axios: "axios"
};

config.plugins = [...config.plugins, ...plugins];
},
chainWebpack: config => {
  // 修复HMR
  config.resolve.symlinks(true);

  // config.plugins.delete('preload');
  // config.plugins.delete('prefetch');

  config
    .plugin("ignore")
    .use(
      new webpack.ContextReplacementPlugin(/moment[\/\\]locale$/, /zh-cn$/)
    );

  // 添加别名
  config.resolve.alias
    .set("vue$", "vue/dist/vue.esm.js")
    .set("@", resolve("src"))
    .set("@apis", resolve("src/apis"))
    .set("@assets", resolve("src/assets"))
    .set("@scss", resolve("src/assets/scss"))
```

```
.set("@components", resolve("src/components"))
.set("@middlewares", resolve("src/middlewares"))
.set("@mixins", resolve("src/mixins"))
.set("@plugins", resolve("src/plugins"))
.set("@router", resolve("src/router"))
.set("@store", resolve("src/store"))
.set("@utils", resolve("src/utils"))
.set("@views", resolve("src/views"))
.set("@layouts", resolve("src/layouts"));

const cdn = {
  // 访问https://unpkg.com/element-ui/lib/theme-chalk/index.css获取最新版本
  css: ["//unpkg.com/element-ui@2.10.1/lib/theme-chalk/index.css"],
  js: [
    "//unpkg.com/vue@2.6.10/dist/vue.min.js", // 访问https://unpkg.com/vue/dist/vue.min.js
    获取最新版本
    "//unpkg.com/vue-router@3.0.6/dist/vue-router.min.js",
    "//unpkg.com/vuex@3.1.1/dist/vuex.min.js",
    "//unpkg.com/axios@0.19.0/dist/axios.min.js",
    "//unpkg.com/element-ui@2.10.1/lib/index.js"
  ]
};

// 如果使用多页面打包, 使用vue inspect --plugins查看html是否在结果数组中
// config.plugin("html").tap(args => {
//   // html中添加cdn
//   args[0].cdn = cdn;

//   // 修复 Lazy loading routes Error
```

```
// args[0].chunksSortMode = "none";
// return args;
// });

// 防止多页面打包卡顿
config => config.plugins.delete('named-chunks')

// 多页面cdn添加
Object.keys(pagesInfo).forEach(page => {
  config.plugin(`html-${page}`).tap(args => {
    // html中添加cdn
    args[0].cdn = cdn;

    // 修复 Lazy loading routes Error
    args[0].chunksSortMode = "none";
    return args;
  });
})

if (IS_PROD) {
  // 压缩图片
  config.module
    .rule("images")
    .test(/\.(png|jpe?g|gif|svg)(\?.*)?$/i)
    .use("image-webpack-loader")
    .loader("image-webpack-loader")
    .options({
      mozjpeg: { progressive: true, quality: 65 },
      optipng: { enabled: false },
```

```
    pngquant: { quality: [0.65, 0.90], speed: 4 },
    gifsicle: { interlaced: false }
  });

// 打包分析
config.plugin("webpack-report").use(BundleAnalyzerPlugin, [
  {
    analyzerMode: "static"
  }
]);
}

// 使用svg组件
const svgRule = config.module.rule("svg");
svgRule.uses.clear();
svgRule.exclude.add(/node_modules/);
svgRule
  .test(/\.(svg)$/i)
  .use("svg-sprite-loader")
  .loader("svg-sprite-loader")
  .options({
    symbolId: "icon-[name]"
  });

const imagesRule = config.module.rule("images");
imagesRule.exclude.add(resolve("src/icons"));
config.module.rule("images").test(/\.(png|jpe?g|gif|svg)(\?.*)?$/i);

return config;
```

```
},
pages,
css: {
  extract: IS_PROD,
  sourceMap: false,
  loaderOptions: {
    scss: {
      // 向全局sass样式传入共享的全局变量, $src可以配置图片cdn前缀
      // 详情: https://cli.vuejs.org/guide/css.html#passing-options-to-pre-processor-loaders
      prependData: `
        @import "@scss/variables.scss";
        @import "@scss/mixins.scss";
        @import "@scss/function.scss";
        $src: "${process.env.VUE_APP_BASE_API}";
      `
    }
  }
},
lintOnSave: false,
runtimeCompiler: true, // 是否使用包含运行时编译器的 Vue 构建版本
productionSourceMap: !IS_PROD, // 生产环境的 source map
parallel: require("os").cpus().length > 1,
pwa: {},
devServer: {
  // overlay: { // 让浏览器 overlay 同时显示警告和错误
  //   warnings: true,
  //   errors: true
}
```

```
// },
// open: false, // 是否打开浏览器
// host: "localhost",
// port: "8080", // 代理断就
// https: false,
// hotOnly: false, // 热更新
proxy: {
  "/api": {
    target:
      "https://www.easy-mock.com/mock/5bc75b55dc36971c160cad1b/sheets", // 目标代理
      口地址
    secure: false,
    changeOrigin: true, // 开启代理, 在本地创建一个虚拟服务端
    // ws: true, // 是否启用websockets
    pathRewrite: {
      "^/api": "/"
    }
  }
}
};复制代码
```