

Vite Configuration Setups for React Projects

1. Basic Vite + React Setup

```
import { defineConfig } from 'vite';
import react from '@vitejs/plugin-react';

export default defineConfig({
  plugins: [react()]
});
```

2. React + TypeScript

```
import { defineConfig } from 'vite';
import react from '@vitejs/plugin-react';

export default defineConfig({
  plugins: [react()]
});
```

3. React + Custom Dev Server Config

```
export default defineConfig({
  plugins: [react()],
  server: {
    port: 3001,
    open: true,
    proxy: {
      '/api': 'http://localhost:5000'
    }
  }
});
```

4. Path Aliases

```
import path from 'path';

export default defineConfig({
  plugins: [react()],
  resolve: {
    alias: {
      '@components': path.resolve(__dirname, 'src/components'),
      '@assets': path.resolve(__dirname, 'src/assets')
    }
  }
});
```

5. React + Vitest

```
import { defineConfig } from 'vite';
import react from '@vitejs/plugin-react';
import { configDefaults } from 'vitest/config';

import { defineConfig } from 'vite';
import react from '@vitejs/plugin-react';
import { configDefaults } from 'vitest/config';
```

```
export default defineConfig({
  plugins: [react()],
  test: {
    globals: true,
    environment: 'jsdom',
    setupFiles: './src/setupTests.js',
    exclude: [...configDefaults.exclude, 'e2e/*']
  }
});
```

6. React + Tailwind CSS

```
import { defineConfig } from 'vite';
import react from '@vitejs/plugin-react';

export default defineConfig({
  plugins: [react()]
});
```

7. Production Optimization

```
export default defineConfig({
  plugins: [react()],
  build: {
    sourcemap: true,
    minify: 'esbuild',
    chunkSizeWarningLimit: 500
  }
});
```

8. React + PWA

```
import { defineConfig } from 'vite';
import react from '@vitejs/plugin-react';
import { VitePWA } from 'vite-plugin-pwa';

export default defineConfig({
  plugins: [
    react(),
    VitePWA({
      registerType: 'autoUpdate',
      manifest: {
        name: 'React Vite PWA',
        short_name: 'VitePWA',
        start_url: '/',
        display: 'standalone',
        background_color: '#ffffff',
        theme_color: '#317EFB',
        icons: [
          {
            src: '/pwa-192x192.png',
            sizes: '192x192',
            type: 'image/png'
          },
        ],
      },
    })
  ],
});
```

```

    {
      src: '/pwa-512x512.png',
      sizes: '512x512',
      type: 'image/png'
    }
  ]
}
})
]
});

```

9. React + SSR

```

export default defineConfig({
  plugins: [react()],
  ssr: {
    noExternal: ['react-router-dom']
  }
});

```

10. Environment Variables

```

export default defineConfig({
  plugins: [react()],
  define: {
    __APP_ENV__: JSON.stringify(process.env.APP_ENV)
  }
});

```

11. Library Mode (For Publishing)

```

export default defineConfig({
  plugins: [react()],
  build: {
    lib: {
      entry: 'src/index.ts',
      name: 'MyLib',
      fileName: (format) => `my-lib.${format}.js`
    },
    rollupOptions: {
      external: ['react', 'react-dom'],
      output: {
        globals: {
          react: 'React',
          'react-dom': 'ReactDOM'
        }
      }
    }
  }
});

```

12. Multiple Entry Points

```

import { defineConfig } from 'vite';
import react from '@vitejs/plugin-react';

```

```
export default defineConfig({
  plugins: [react()],
  build: {
    rollupOptions: {
      input: {
        main: './index.html',
        admin: './admin.html'
      }
    }
  }
});
```

13. Custom Public Directory

```
export default defineConfig({
  plugins: [react()],
  publicDir: 'static'
});
```