

# Development and Production Modes

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## 1. Development and Production Modes

Beehive applications can be run in either **development** or **production** mode:

In **development** mode, if the tag `<netui:exceptions showDevModeStackTrace="true" />` is present on a JSP and an exception occurs, then the stack trace will be displayed.

In **production** mode, the opposite is true: if the tag `<netui:exceptions showDevModeStackTrace="true"/>` is present and an exception occurs, then the stack trace *won't* be displayed.

By default, applications run in production mode, i.e., exception stack traces are not shown.

Similarly, assertions are disabled by default.

### Note:

If you want to display the stack trace for exceptions in all cases (whether you're in production mode or development mode), you can set the `<netui:exceptions>` tag's `showStackTrace` attribute to "true".  
`<netui:exceptions showStackTrace="true">`

## 2. Controlling the Visibility of Assertions and Exceptions

Beehive uses two switches to control the visibility of assertions and exceptions.

### **-ea**

Controls whether assertions are enabled or not. Assertions are disabled by default. If assertions are enabled, then Beehive assumes development mode as well: i.e., exception stack traces are made visible. (See below for enabling assertions but disabling exception stack traces.)

### **-beehive.productionmode**

Controls whether exception stack traces are displayed by the tag `<netui:exceptions showDevModeStackTrace="true"/>`. By default, stack traces are not displayed.

### **export JAVA\_OPTS=**

Same as the 'default' setting. In Tomcat, this leaves assertions disabled and results in Beehive assuming production mode. If you have `<netui:exceptions showDevModeStackTrace="true"/>` in a page and an exception occurs, you won't see the stack trace.

### **export JAVA\_OPTS=-ea**

Using this setting for Tomcat, assertions are enabled and Beehive assumes development mode. If you have `<netui:exceptions`

`showDevModeStackTrace="true"/>` in one of your pages and an exception occurs, then you will see the stack trace.

**`export JAVA_OPTS="-ea -Dbeehive.productionmode=true"`**

This is a case where the assumption made by Beehive is overridden: assertions are enabled, but Beehive will run in production mode. If you have

`<netui:exceptions showDevModeStackTrace="true"/>` in a page and an exception occurs, you won't see the stack trace.

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