

# Environment Variables

Setting environment variables can be necessary for configuring your system and applications properly. Below are the general steps for setting environment variables on different operating systems:

## ### \*\*For Windows:\*\*

### 1. \*\*Open the Start Menu:\*\*

- Click on the Windows Start button.

### 2. \*\*Search for "Environment Variables":\*\*

- Type "Environment Variables" in the search bar and select "Edit the system environment variables."

### 3. \*\*Open Environment Variables:\*\*

- Click the "Environment Variables..." button in the System Properties window.

### 4. \*\*User or System Variables:\*\*

- Under the "User variables" or "System variables" section, click "New" to add a new variable.

### 5. \*\*Set Variable Name and Value:\*\*

- Enter the name of the variable in the "Variable name" field.
- Enter the value of the variable in the "Variable value" field.
- Click "OK" to save.

### 6. \*\*Verify:\*\*

- Open a new Command Prompt or PowerShell window.
- Type `echo %VARIABLE_NAME%` to verify that the variable is set.

## ### \*\*For macOS and Linux:\*\*

### 1. \*\*Open Terminal:\*\*

- Open the terminal.

### 2. \*\*Edit bashrc or bash\_profile (For macOS and some Linux):\*\*

- Use a text editor like `nano` or `vi` to open either `~/bashrc` or `~/bash_profile`:

```
```bash
nano ~/.bashrc
```
```

or

```
```bash
nano ~/.bash_profile
```
```

### 3. \*\*Add Environment Variable:\*\*

- Add the following line at the end of the file:

```
```bash
export VARIABLE_NAME=value
```
```

Replace `VARIABLE\_NAME` with the desired variable name and `value` with the desired value.

**4. \*\*Save and Exit:\*\***

- Save the changes and exit the text editor.

**5. \*\*Load the Updated File:\*\***

- Run the following command to apply the changes:

```
```bash
source ~/.bashrc
```

or

```bash
source ~/.bash_profile
```
```

**6. \*\*Verify:\*\***

- Type `echo \$VARIABLE\_NAME` to verify that the variable is set.

**### \*\*For Linux (using systemd):\*\***

**1. \*\*Create a file in /etc/environment:\*\***

- Open the terminal.
- Use a text editor to create or edit the `/etc/environment` file:

```
```bash
sudo nano /etc/environment
```
```

**2. \*\*Add Environment Variable:\*\***

- Add the following line to the file:

```
```bash
VARIABLE_NAME=value
```
```

Replace `VARIABLE\_NAME` with the desired variable name and `value` with the desired value.

**3. \*\*Save and Exit:\*\***

- Save the changes and exit the text editor.

**4. \*\*Reboot or Re-login:\*\***

- Either reboot your system or log out and log back in for the changes to take effect.

**5. \*\*Verify:\*\***

- Open a terminal and type `echo \$VARIABLE\_NAME` to verify that the variable is set.

Remember to replace `VARIABLE\_NAME` and `value` with your desired variable name and value. Setting environment variables is essential for configuring various applications and tools on your system.