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1 Configuring Python

1.1 Introduction

1.1.1 Overview

Python is an object-oriented interpretive computer programming language and is pure free software. Its source code and interpreter Cpython comply with GNU general public license (GPL) protocol. The Python shell component can debug and run Python scripts through CLI commands.

1.1.2 Principles

1. Python Script Debugging

Python script debugging refers to debugging or running a script to be run on a device. A Python script is debugged with two methods:

- One is to copy the Python script to a device and debug the script on the Python console.
- The other is to copy the Python script to a device and run the script. Check whether the expected effect is achieved. If not, modify and debug the script.

Regardless of methods, the user runs an open source Python command and the debugging method is consistent with that of the open source Python. The Python shell component redirects the input and output of the open source Python process to the current terminal.

2. Permission Control

Permission control indicates that Python CLI commands are not allowed to operate directories or files other than **flash:** and **tmp:** and risky operations such as popen and system are not allowed in a script.

Permissions are controlled at the entry of Python. So long as a Python script is run on a device, permissions are controlled to control the risk caused by running of the Python script.

1.2 Restrictions and Guidelines

Permission control: Python commands and scripts can be run on only files in the **flash:** and **tmp:** directories.

1.3 Configuring Basic Features

1.3.1 Overview

This section describes how to run a Python script.

1.3.2 Procedure

(1) Enter the privileged EXEC mode.

enable

(2) Debug a Python script.

python *file-name* [*args*]