

<http://emn178.pixnet.net/blog/post/72463845-php%E5%9F%B7%E8%A1%8C%E5%A4%96%E9%83%A8%E7%A8%8B%E5%BC%8F>

How to execute an external program in PHP

PHP SELinux、php.ini、Sudoer、

php shell_exec(), exec(), system() Linux

1. SELinux

php shell_exec("ls") SELinux /var/log/messages

httpd

[?](#)

1

/usr/sbin/getsebool -a | grep httpd

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```

allow_httpd_anon_write -- off allow_httpd_mod_auth_pam -- off
allow_httpd_sys_script_anon_write -- off httpd_builtin_scripting -- on
httpd_can_network_connect -- off httpd_can_network_connect_db -- off
httpd_can_network_relay -- off httpd_disable_trans -- off httpd_enable_cgi -- on
httpd_enable_ftp_server -- off httpd_enable_homedirs -- on httpd_rotatelogds_disable_trans --
off httpd_ssi_exec --off httpd_suexec_disable_trans -- off httpd_tty_comm -- off httpd_unified
-- on

```

httpd_ssi_exec on

? 1 # setsebool -P httpd_ssi_exec 1

SELinux

```

SELinux SELinux CentOS /etc/selinux/config
/etc/sysconfig/selinux

```

? 1 # vi /etc/selinux/config

SELINUX=disabled

? 1 SELINUX=disabled

SELinux Fedora Red Hat setenforce

PHP selinux apache exec

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? 1 # setenforce 0

? 1 # setenforce 1

? 1 echo 0 >/selinux/enforce

? 1 echo 1 >/selinux/enforce

2. php.ini

safe_mode

php.ini safe_mode shell_exec() exec() safe_mode_exec_dir

disable_functions

php.ini shell_exec() shell_exec()

3. Sudoer

PHP selinux apache exec

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apache php

? 1 2 3 <?php

php apache Linux sudoer apache

? 1 # visudo

? 1 # vi /etc/sudoers

apache NOPASSWD root

? 1 apache ALL=(ALL) NOPASSWD: /sbin/ifconfig

apache tty requiretty

? 1 #requiretty

php sudo

? 1 2 3 <?php

4.

php

5. escapeshellarg

escapeshellarg()

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[?](#)

1

2

3

<?php

6.

```
ssh php /usr/bin/java php  
jar shell_exec() stdout stderr shell_exec() 2>'  
&1 1> /dev/null  
'
```

[?](#)

1

2

3

<?php