Writeup

you can see

```
if ($d->validate()) {
    show($d, "");
} else {
    echo "Invalid";
}
```

and

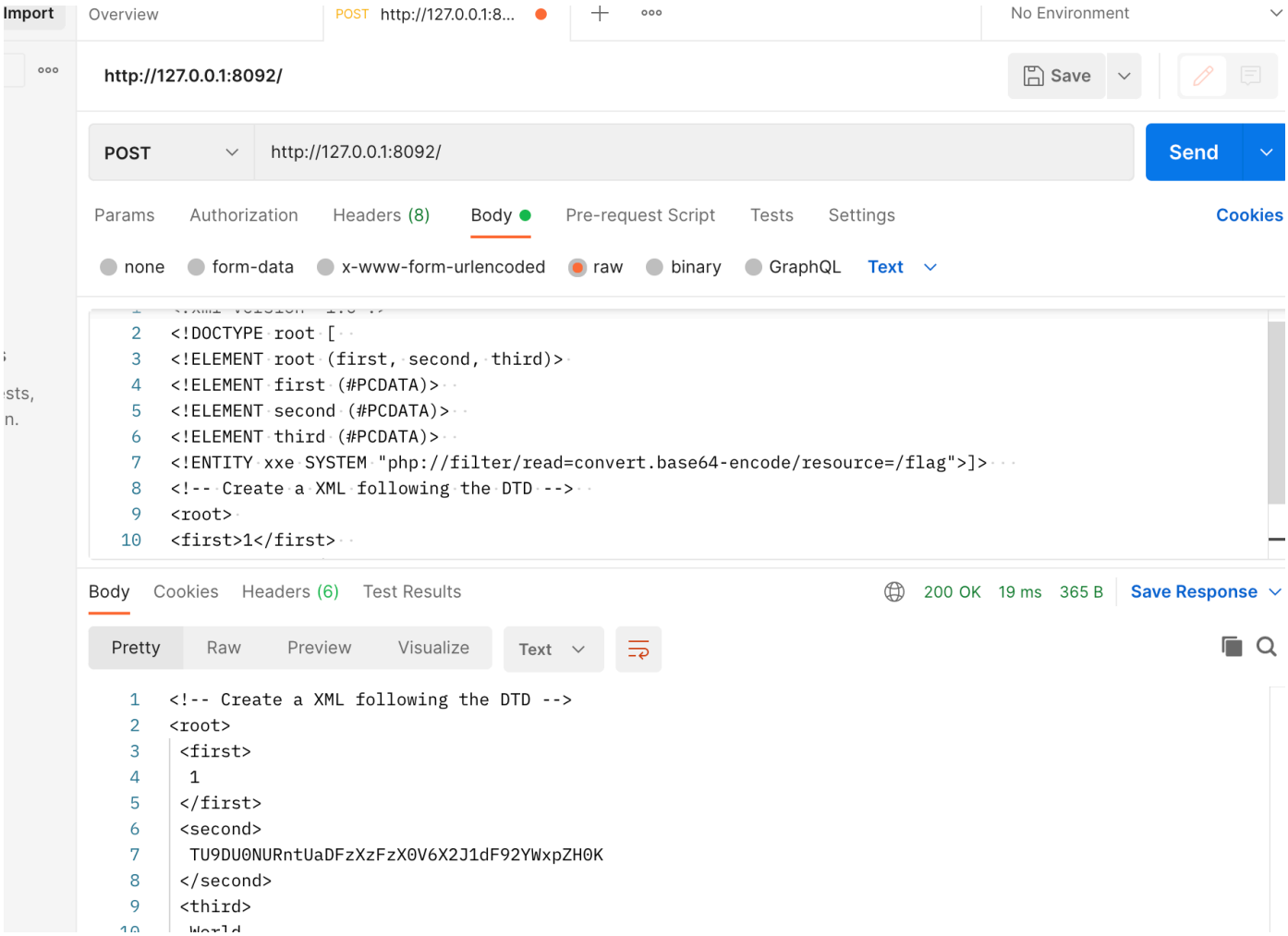
```
header("Content-Type: text/plain");
$d = new DOMDocument();
$data = file_get_contents("php://input");
if(preg_match('/file|rot13/i', $data))
{
    die('illegal!');
}
```

if you know that is a xxe and if our validate we can get flag

have a search and you will find

```php
<?php

// Create a new DOMDocument
$doc = new DOMDocument;

// Load the XML with DTD rule to have
// a root element with first, second,
// and third as its three children
$doc->loadXML("<?xml version=\"1.0\"?>
<!DOCTYPE root [
<!ELEMENT root (first, second, third)>
<!ELEMENT first (#PCDATA)>
<!ELEMENT second (#PCDATA)>
<!ELEMENT third (#PCDATA)>
]>

<!-- Create a XML following the DTD -->
<root>
<first>Hello</first>
<second>There</second>
<third>World</third>
</root>");

// Check if XML follows the DTD rule
if ($doc->validate()) {
    echo "This document is valid!\n";
}
?>
```

we can't use file:// but we can use php://filter to read the flag




```
[$ echo TU9DU0NURntUaDFzXzFzX0V6X2J1dF92YWxpZH0K| base64 -d
MOCSCTF{Th1s_1s_Ez_but_valid}
```