

## Summary

Input & A-Label	Output	Chrome Version 83.0.4103.61 (Official Build) (64-bit)	Safari Version 13.1 (15609.1.20.111.8)	Firefox 76.0.1 (64-bit)
zil.test zil.test	Copy from URL bar and paste	<a href="http://zil.test/">http://zil.test/</a>	<a href="http://zil.test">http://zil.test</a>	<a href="http://www.zil.test/">http://www.zil.test/</a>
	As seen on URL bar	<a href="http://zil.test">zil.test</a>	<a href="http://zil.test">zil.test</a>	<a href="http://www.zil.test">www.zil.test</a>
	As seen in error message	<a href="http://zil.test">zil.test</a>	<a href="http://zil.test">zil.test</a>	<a href="http://www.zil.test">www.zil.test</a>
zil.test xn--zl-hpa.test	Copy from URL bar and paste	<a href="http://xn--zl-hpa.test/">http://xn--zl-hpa.test/</a>	<a href="http://zil.test">http://zil.test</a>	<a href="http://www.zil.test/">http://www.zil.test/</a>
	As seen on URL bar	<a href="http://zil.test">zil.test</a>	<a href="http://zil.test">zil.test</a>	<a href="http://www.zil.test">www.zil.test</a>
	As seen in error message	<a href="http://zil.test">zil.test</a>	<a href="http://xn--zl-hpa.test">xn--zl-hpa.test</a>	<a href="http://www.xn--zl-hpa.test">www.xn--zl-hpa.test</a>
ZiL.test xn--zil-9dc.test	Copy from URL bar and paste	<a href="http://xn--zil-9dc.test/">http://xn--zil-9dc.test/</a>	<a href="http://zil.test">http://zil.test</a>	<a href="http://www.zil.test/">http://www.zil.test/</a>
	As seen on URL bar	<a href="http://xn--zil-9dc.test">xn--zil-9dc.test</a>	<a href="http://zil.test">zil.test</a>	<a href="http://www.zil.test">www.zil.test</a>
	As seen in error message	<a href="http://xn--zil-9dc.test">xn--zil-9dc.test</a>	<a href="http://xn--zil-9dc.test">xn--zil-9dc.test</a>	<a href="http://www.xn--zil-9dc.test">www.xn--zil-9dc.test</a>
ZiL.test ZiL.test	Copy from URL bar and paste	<a href="http://zil.test/">http://zil.test/</a>	<a href="http://zil.test">http://zil.test</a>	<a href="http://www.zil.test/">http://www.zil.test/</a>
	As seen on URL bar	<a href="http://zil.test">zil.test</a>	<a href="http://zil.test">zil.test</a>	<a href="http://www.zil.test">www.zil.test</a>
	As seen in error message	<a href="http://zil.test">zil.test</a>	<a href="http://zil.test">zil.test</a>	<a href="http://www.zil.test">www.zil.test</a>

### Data shows

Input	Expected Output	Test Result
ZiL.test	zil.test	zil.test (xn--zil-9dc.test)
ZiL.test	zil.test (xn--zl-hpa.test)	zil.test

Example. In the case of two Turkish words using different letter Is. User can enters a URL with one capitalized form and reach the other website.

Words	A-Label	Turkish Uppercase
dış (adj., external)	xn--d-fka2l	DIŞ.TEST
dış (n., tooth)	xn--di-gta	DIŞ.TEST

Input	Expected Output	Test Result
DIŞ.TEST <i>external.test</i>	dış.test (xn--d-fka2l.test) <i>external.test</i>	dış.test (xn--di-gta.test) <i>tooth.test</i>
DIŞ.TEST <i>tooth.test</i>	dış.test (xn--di-gta.test) <i>tooth.test</i>	diş.test (xn--di-gta90o.test) <i>N/A.test</i>

Source of Turkish words: <https://tureng.com/>

## Testing Environment Information

1. Testing OS: macOS Catalina Version 10.15.4 (19E287)
2. Locale setting: tr\_TR

```
(base) Jibkoos-MacBook-Pro:~ jibkoo$ defaults read -g AppleLocale tr_TR
```

3. Chrome for macOS: Version 83.0.4103.61 (Official Build) (64-bit)
4. Safari for macOS: Version 13.1 (15609.1.20.111.8)
5. Firefox for macOS: 76.0.1 (64-bit)

## A-Label

IDNA conversion <https://www.punycoder.com/>

User Input Copy and Paste into "Text" box, then "Convert to Punycode"	zil	zil	ZiL	ZiL
Output Register output string in "Punycode" box	zil	xn--zl-hpa	xn--zil-9dc	ZiL

## Screenshots

### 1. Chrome

User Input Copy and Paste in URL address Bar	zil.test	zil.test	ZiL.test	ZiL.test
Output URL Bar Register returned label in address bar	http://zil.test/	http://xn--zl-hpa.test/	http://xn--zil-9dc.test/	http://zil.test/
Output As seen on URL bar	zil.test	zil.test	xn--zil-9dc.test	zil.test
Output As seen in error message	zil.test	zil.test	xn--zil-9dc.test	zil.test

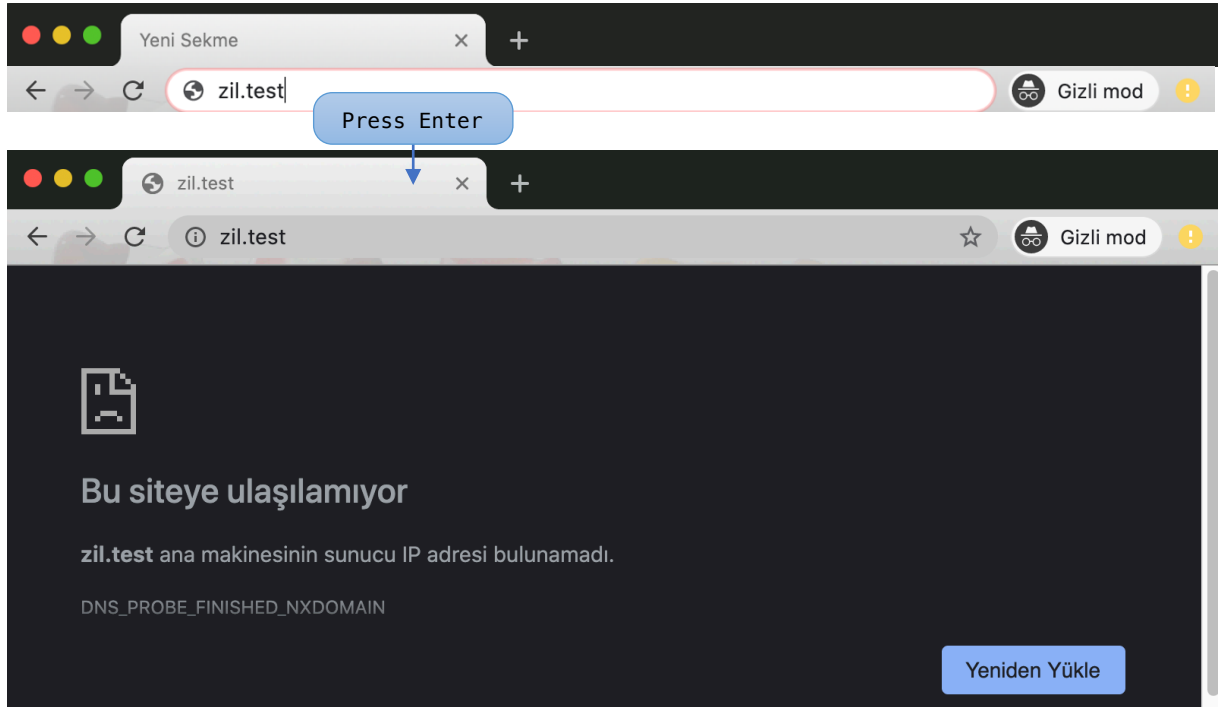


Figure 1.1 Chrome output of zil.test

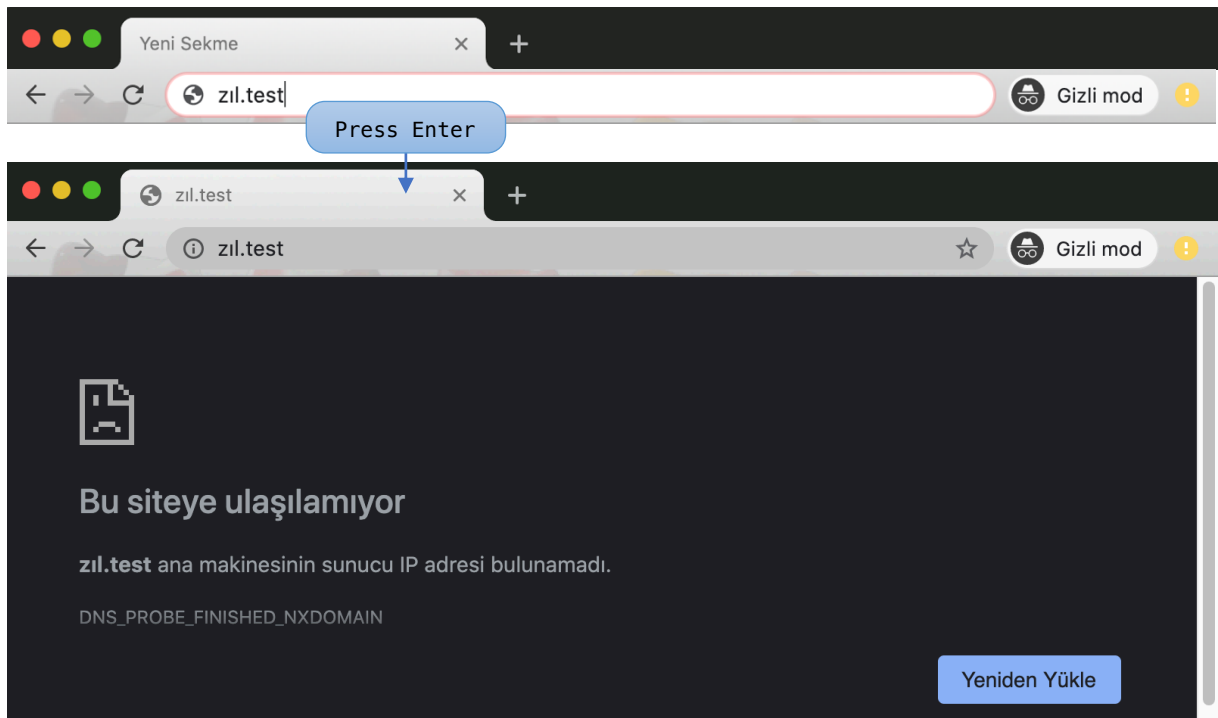


Figure 1.2 Chrome output of zil.test

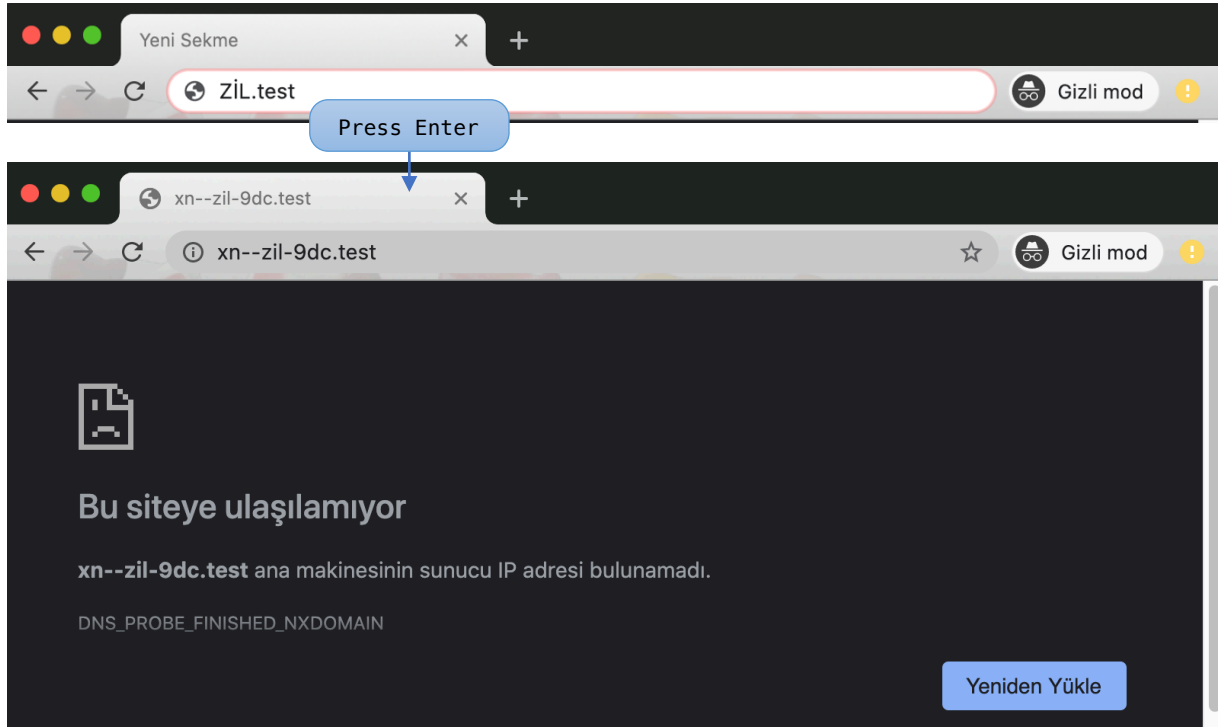


Figure 1.3 Chrome output of ZiL.test

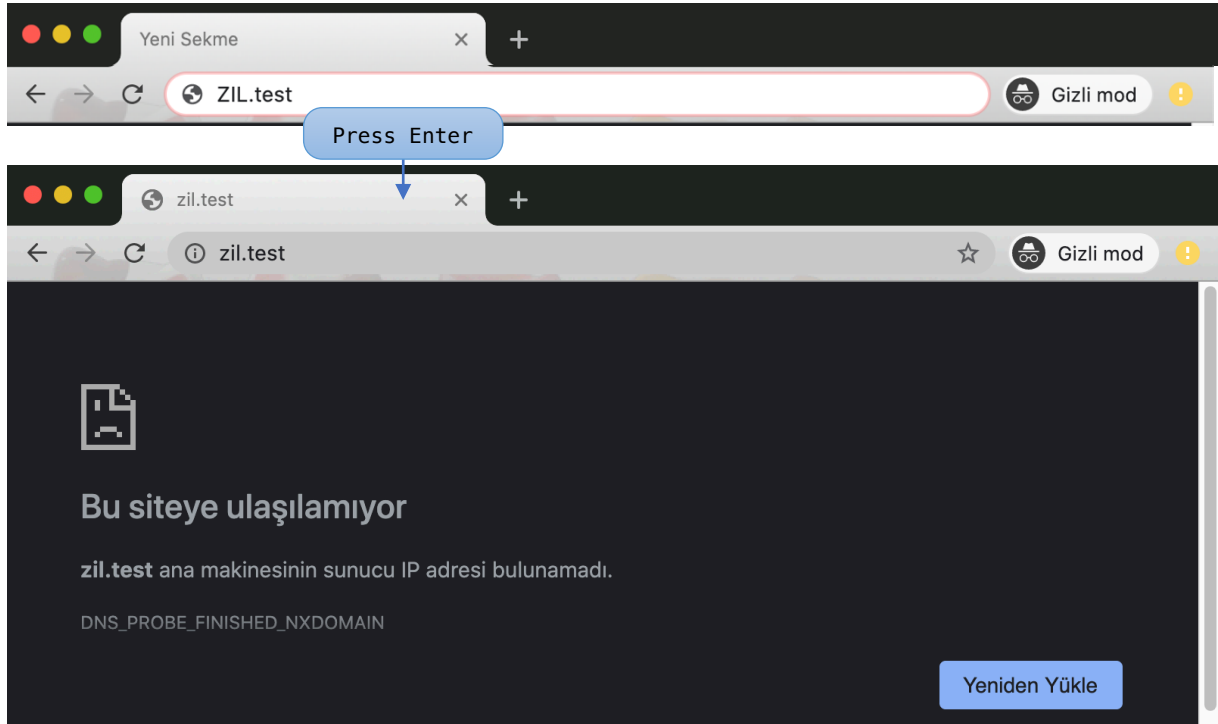


Figure 1.4 Chrome output of ZiL.test

## 2. Safari

<b>User Input</b> Copy and Paste in URL address Bar	zil.test	zıl.test	ZİL.test	ZIL.test
<b>Output URL Bar</b> Register returned label in address bar	http://zil.test	http://zıl.test	http://zil.test	http://zil.test
<b>Output</b> As seen on URL bar	zil.test	zıl.test	zil.test	zil.test
<b>Output</b> As seen in error message	zil.test	xn--zl-hpa.test	xn - zil-9dc.test	zil.test

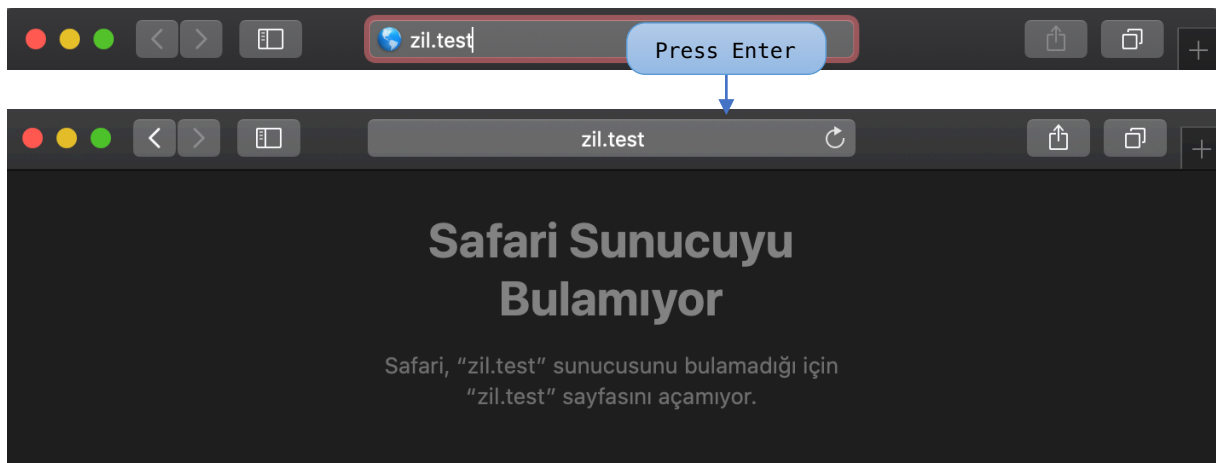


Figure 2.1 Safari output of zil.test

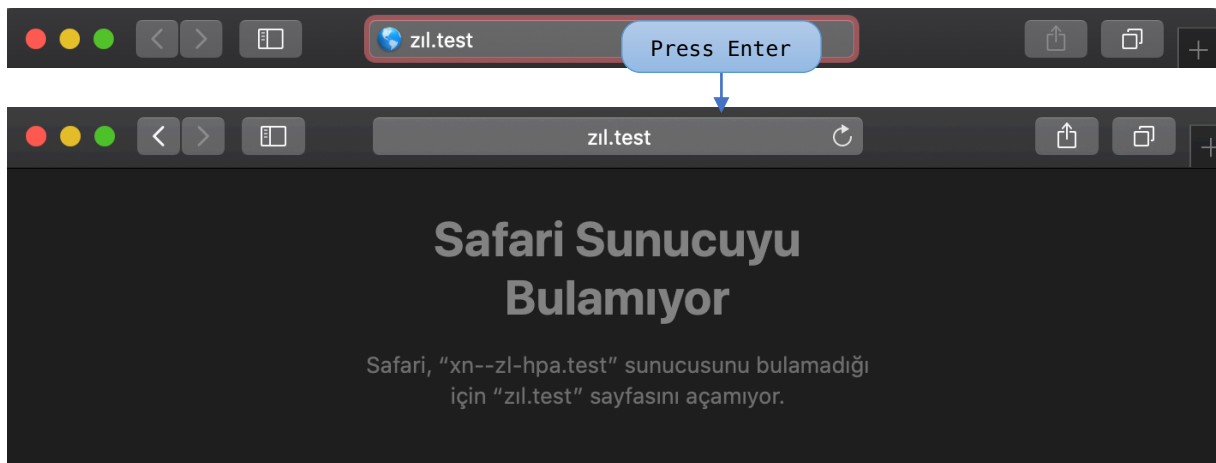


Figure 2.2 Safari output of zil.test

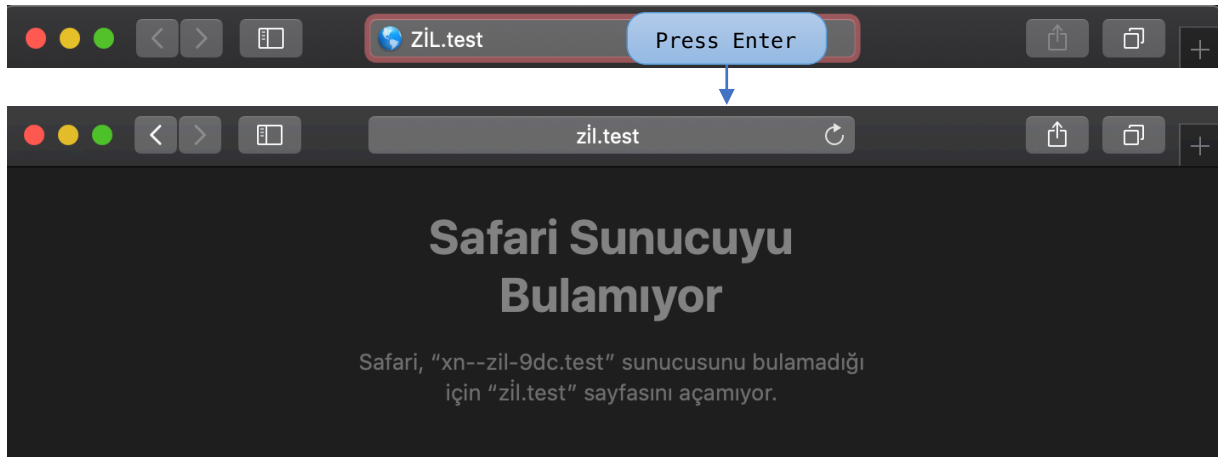


Figure 2.3 Safari output of ZİL.test

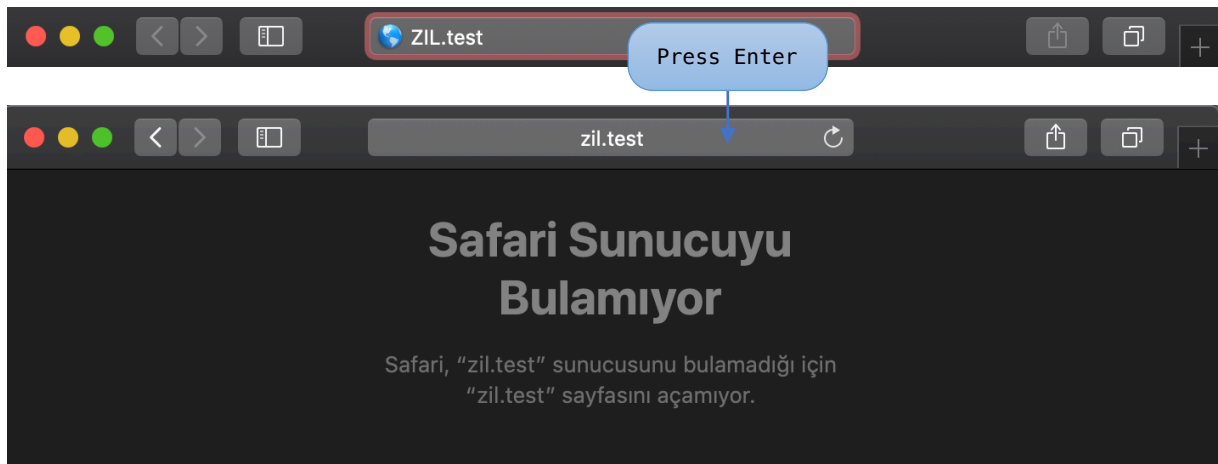


Figure 2.4 Safari output of ZIL.test

### 3. Firefox

User Input Copy and Paste in URL address Bar	zil.test	zil.test	ZİL.test	ZIL.test
<b>Output URL Bar</b> Register returned label in address bar	http://www.zil.test/	http://www.zil.test/	http://www.zil.test/	http://www.zil.test/
<b>Output</b> As seen on URL bar	www.zil.test	www.zil.test	www.zil.test	www.zil.test
<b>Output</b> As seen in error message	www.zil.test	www.xn--zil- hpa.test	www.xn--zil- 9dc.test.	www.zil.test

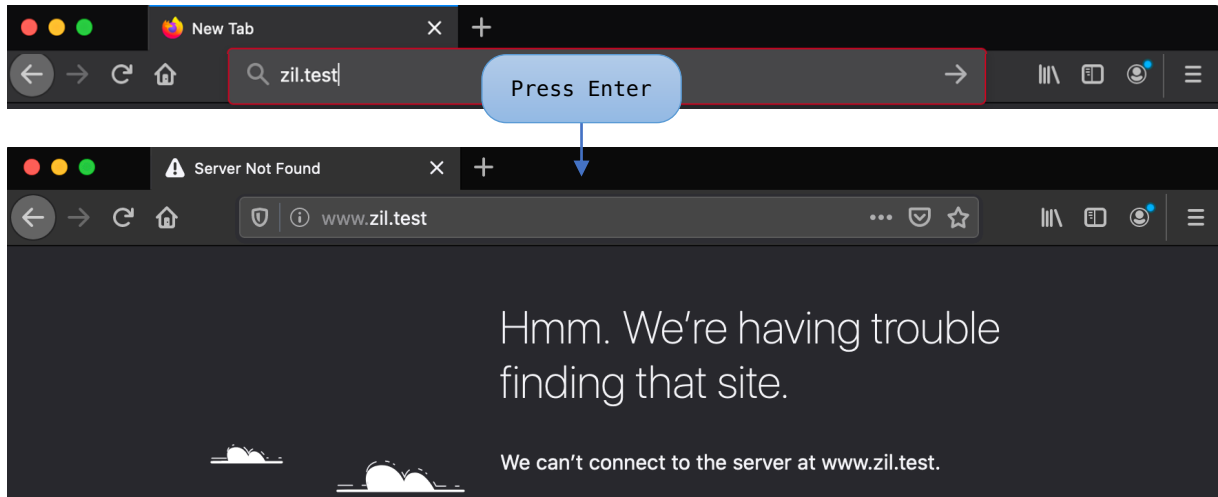


Figure 3.1 Firefox output of zil.test

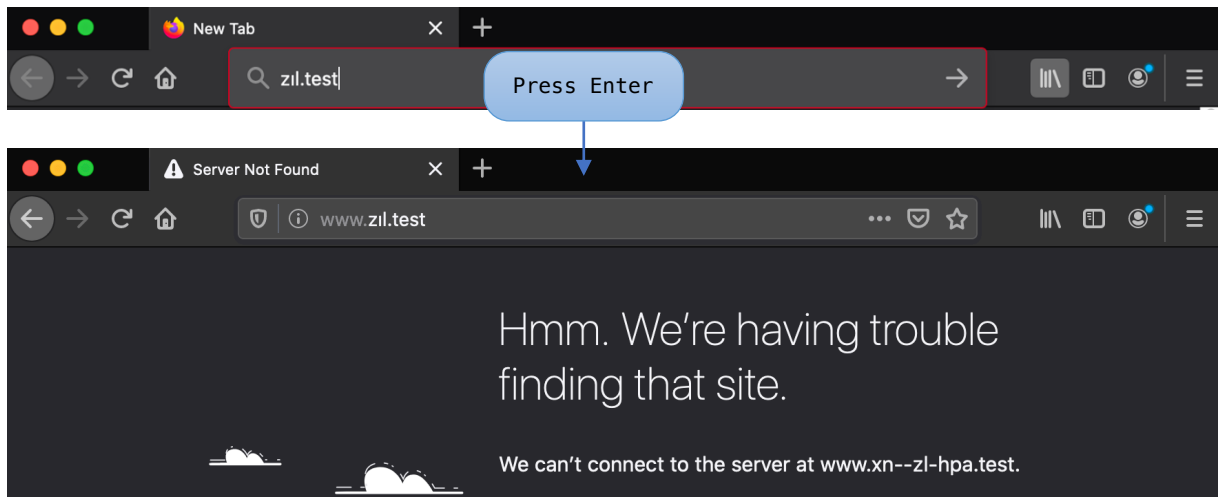


Figure 3.2 Firefox output of zil.test

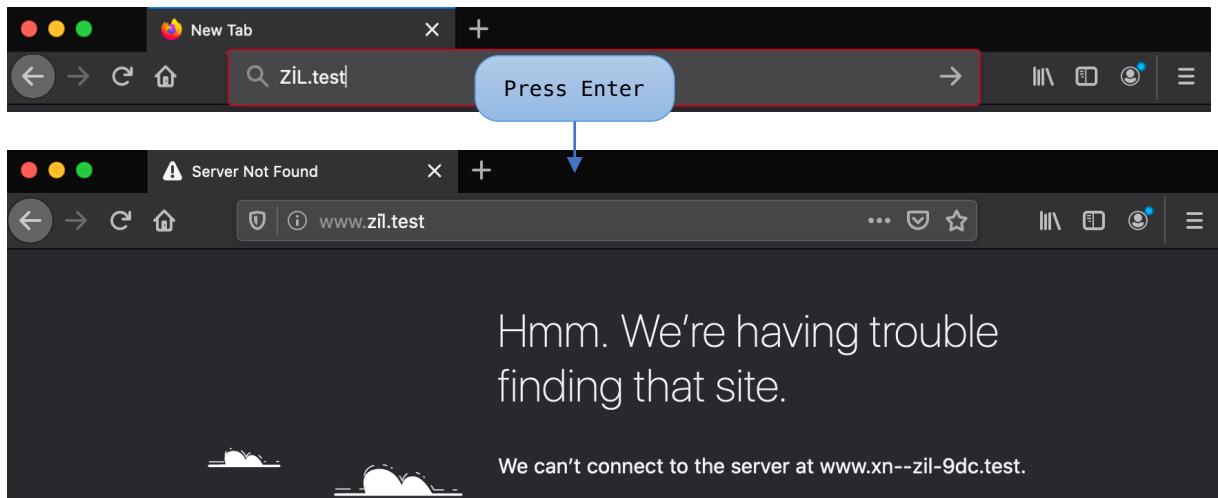


Figure 3.3 Firefox output of zil.test

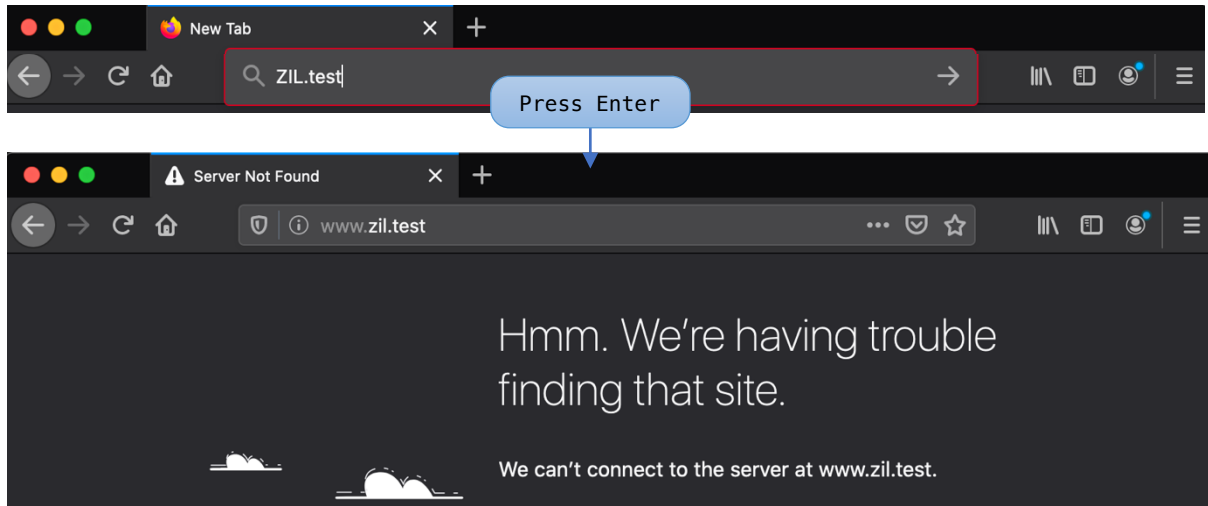


Figure 3.4 Firefox output of ZIL.test