### WEBSITE TESTING BAGIAN 4

FAHRUL PRADANA, M.KOM.

# Aba Aaud Dinlisss

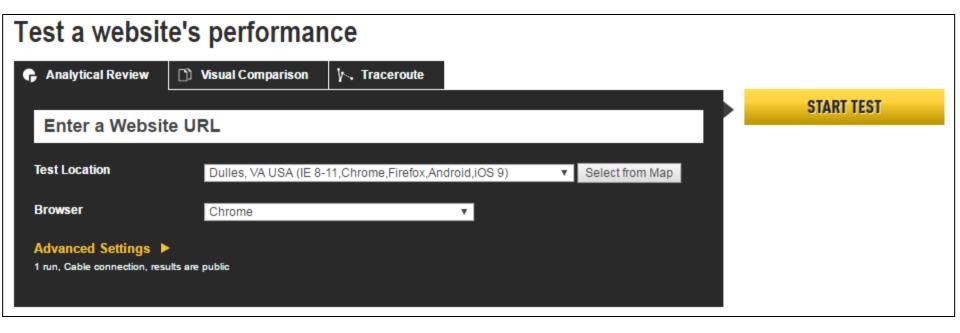
- □ CROSS BROWSERS COMPATIBILITY
- LINKS VALIDATING
- WEBSITE PERFORMANCE

### WEBSITE PERFORMANCE TEST

- Pengujian website performance merupakan pengujian yang digunakan untuk menentukan seberapa lama dan seberapa cepat website tersebut pada saat diakses.
- Pengujian website performance ini juga dipengaruhi oleh kecepatan akses internet yang digunakan oleh user / pengguna.
- Pengujian ini juga menggunakan browser yang bisa dipilih sesuai keinginan.

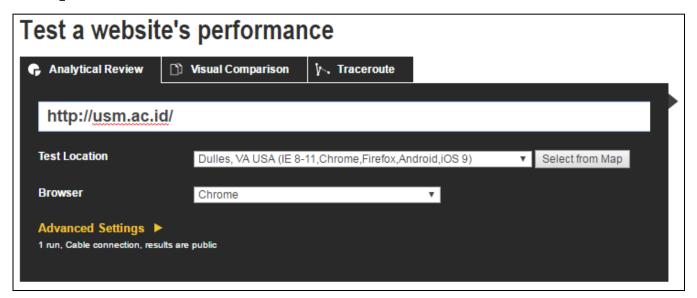
## Mulai Pengujian

 Silakan buka browser anda kemudian ketikkan alamat berikut http://www.webpagetest.org/



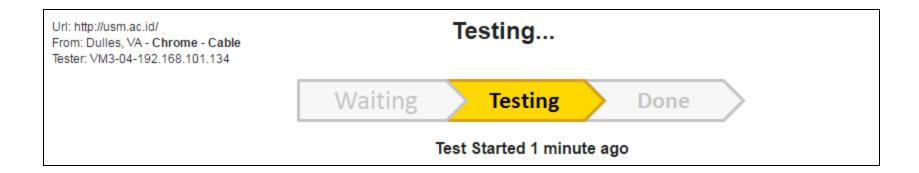
### Test Location dan Browser

- Silakan anda gunakan test location standar dan browser yang sedang anda gunakan.
- Kemudian masukkan website yang anda uji.
- Dalam hal ini, kita lakukan pengujian website USM http://usm.ac.id/



### Start Test

- Silakan anda klik Start Test pada tombol di bagian kanan test location dan browser.
- Tunggu sebentar dan lihat hasilnya.



## Jika Hasilnya Seperti Ini??

- Di bagian bawah ditampilkan keterangan bahwa
   Test Error: Timed out waiting for the browser to start
- Lakukan pengujian ulang dengan klik Re-run the test untuk melakukan pengujian kembali.

				Do	Document Complete			Fully Loaded			
	Load Time	First Byte	Start Render	Time	Requests	Bytes In	Time	Requests	Bytes In	Cost	
First View	-	-	-	-	-	-	-	-	-	<u>\$</u>	
Repeat View	-	-	-	-	-	-	-	-	-		

Waterfall Screen Shot Video

First View: Test Error: Timed out waiting for the browser to start.

Repeat View: Test Error: Skipped repeat view, first view failed: Timed out waiting for the browser to start.

## Hasil Pengujian (1)

### Web Page Performance Test for

Performance Review

usm.ac.id/

Summary

From: Dulles, VA - Chrome - Cable

Details

6/11/2016 10.26.31



First Byte

Time



Enabled



Transfer

B

Images



X

Cache static content Effective use of CDN

Tester: VM1-02-192.168.101.112

Re-run the test

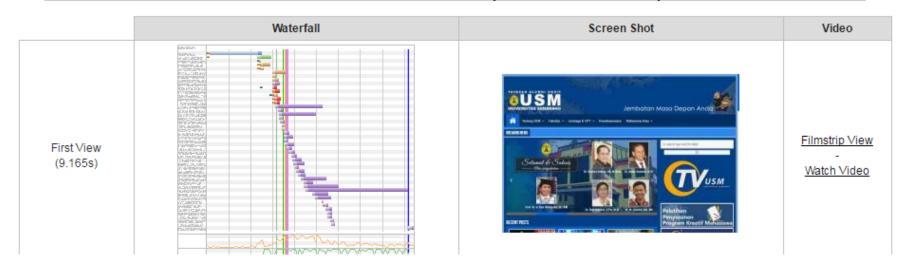
Screen Shot

Raw page data - Raw object data Export HTTP Archive (.har) View Test Log

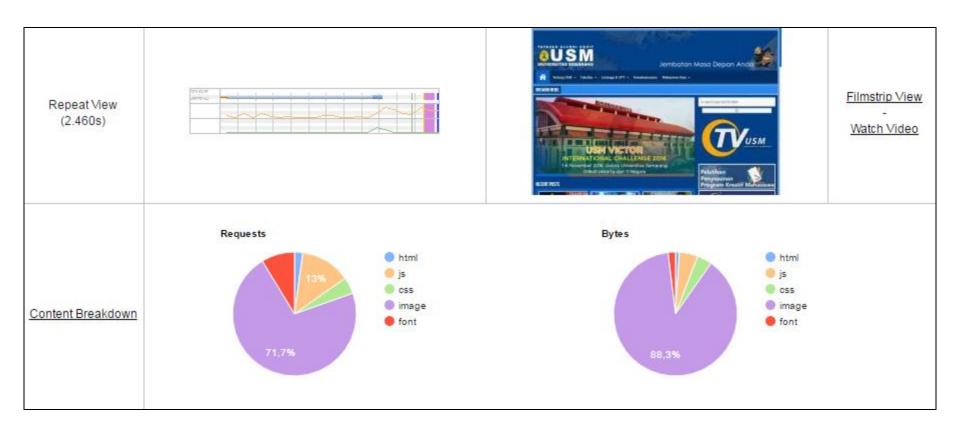
					Doo	cument Con	nplete		Fully L	oaded		
	Load Time	First Byte	Start Render	Speed Index	DOM Elements	Time	Requests	Bytes In	Time	Requests	Bytes In	Cost
First View	9.165s	2.293s	3.460s	4233	476	9.165s	46	3,913 KB	9.380s	47	3,954 KB	<u>\$\$\$\$\$</u>
Repeat View	2.460s	1.712s	2.306s	2474	476	2.460s	1	41 KB	2.460s	1	41 KB	

**Domains** 

**Content Breakdown** 

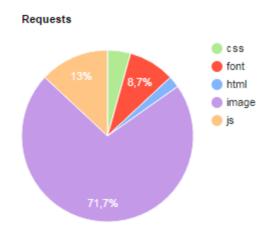


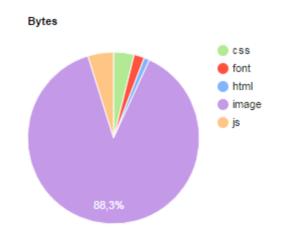
# Hasil Pengujian (2)



### Content Breakdown

### Content breakdown by MIME type (First View)

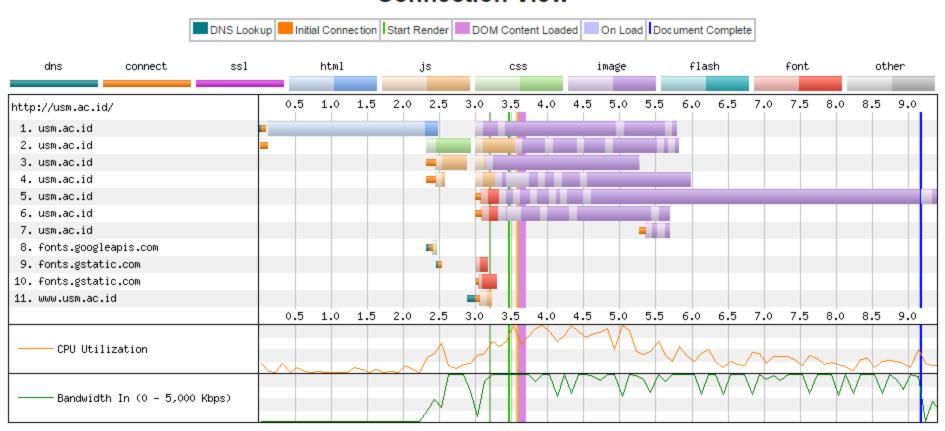




MIME Type	Requests V
image	33
js	6
font	4
css	2
html	1
flash	0
other	0

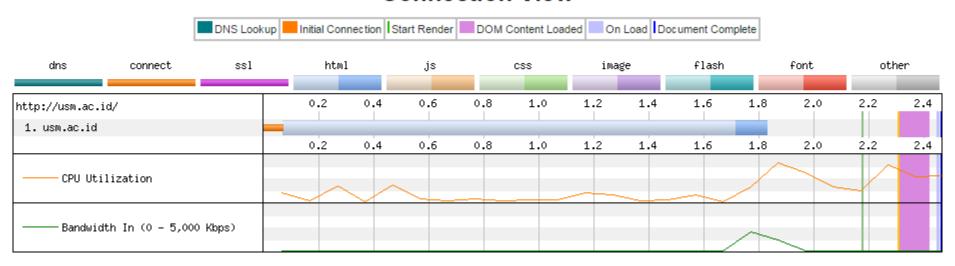
# Connection View (1)

#### **Connection View**



# Connection View (2)

#### **Connection View**



## View Log

```
2016/11/06 03:26:04 - Test Created

2016/11/06 03:26:04 - Starting test (initiated by tester VM1-02-192.168.101.112)

2016/11/06 03:26:04 - Run 1 assigned to VM1-02-192.168.101.112

2016/11/06 03:26:22 - Test Run Complete. Run: 1, Cached: 0, Done: , Tester: VM1-02-192.168.101.112

2016/11/06 03:26:30 - Test Run Complete. Run: 1, Cached: 1, Done: , Tester: VM1-02-192.168.101.112

2016/11/06 03:26:31 - Test Run Complete. Run: 1, Cached: 1, Done: 1, Tester: VM1-02-192.168.101.112

2016/11/06 03:26:31 - Test Complete

2016/11/06 03:26:31 - Test post-processing complete
```

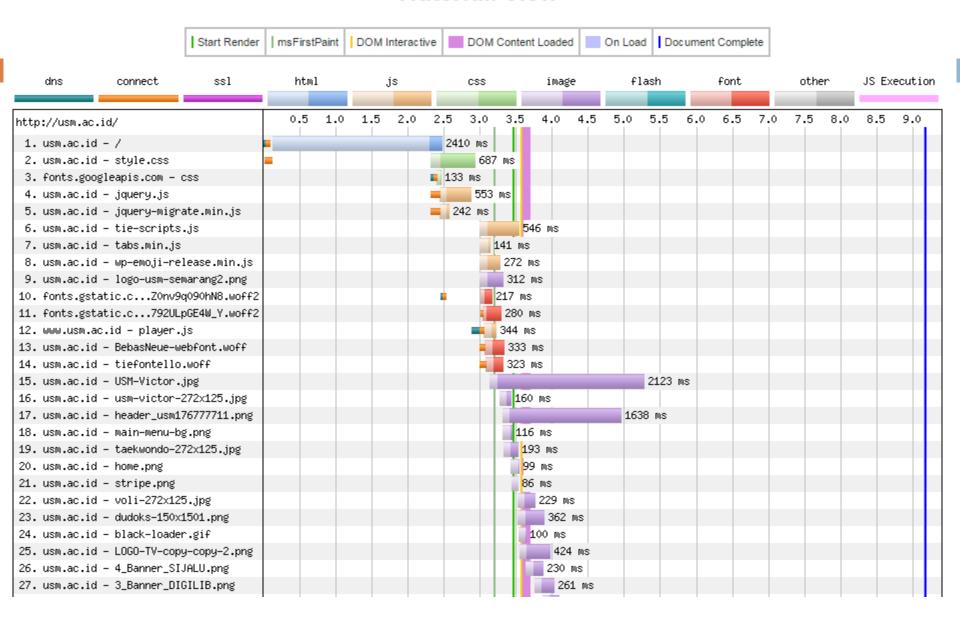
http://www.webpagetest.org/viewlog.php?test=161106\_CN\_3Q0

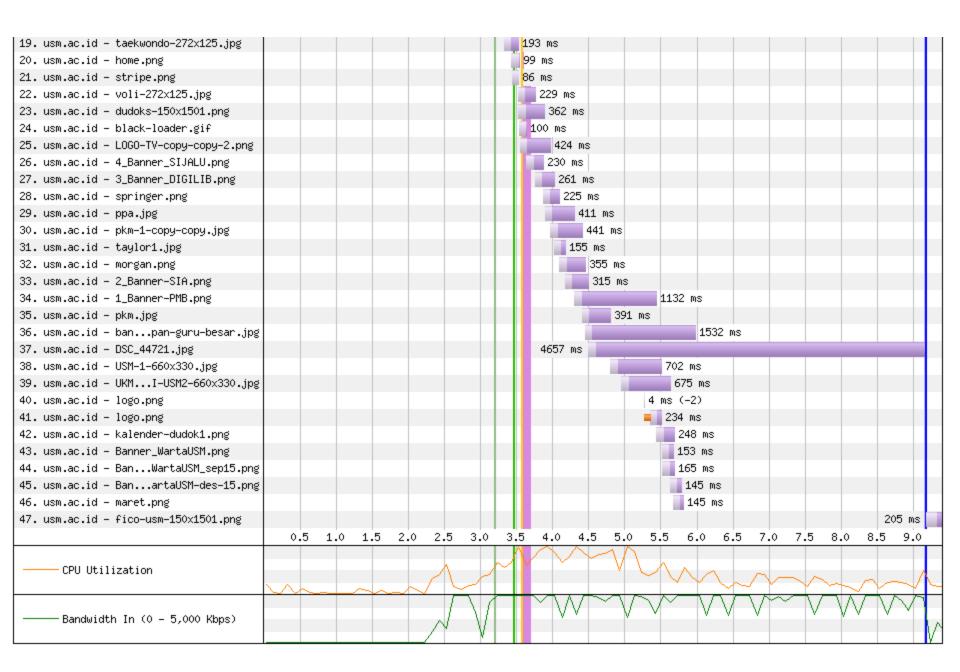
### **Details**

							Do	cument Con	nplete		Fully Loade	ed
Load Time	First Byte	Start Render	Visually Complete	Speed Index	DOM Elements	Result (error code)	Time	Requests	Bytes In	Time	Requests	Bytes In
9.165s	2.293s	3.460s	10.364s	4233	476	99999	9.165s	46	3,913 KB	9.380s	47	3,954 KB

RUM First Paint	domInteractive	domContentLoaded	<u>loadEvent</u>
3.188s	3.563s	3.563s - 3.690s (0.127s)	9.156s - 9.161s (0.005s)

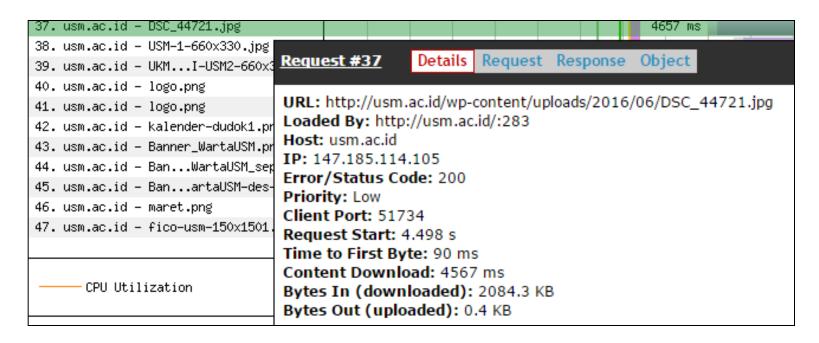
#### Waterfall View





# Konten Lama Diakses/Dibuka

 Penyebab konten tersebut lama diakses adalah ukuran / resolusi file gambar tersebut terlalu besar.



http://usm.ac.id/wp-content/uploads/2016/06/DSC\_44721.jpg

### **CPU Utilization**

#### **Connection View**



### **Request Details**

Before Start Render Before On Load After On Load

	Request Details									
#	Resource	Content Type	Request Start	DNS Lookup	Initial Connection	Time to First Byte	Content Download	Bytes Downloaded	Error/Status Code	IP
1	http://usm.ac.id/	text/html	0.138 s	26 ms	68 ms	2155 ms	187 ms	40.8 KB	200	147.185.114.105
2	http://usm.ac.id/wp/style.css?ver=4.3.6	text/css	2.323 s	-	84 ms	124 ms	479 ms	152.9 KB	200	147.185.114.105
3	http://fonts.googleaular%2C700&ver=4.3.6	text/css	2.397 s	28 ms	46 ms	52 ms	7 ms	0.9 KB	200	216.58.217.106
4	http://usm.ac.id/wpjquery.js?ver=1.11.3	application/javascript	2.444 s	-	117 ms	86 ms	350 ms	94.1 KB	200	147.185.114.105
5	http://usm.ac.id/wpate.min.js?ver=1,2,1	application/javascript	2.445 s	-	117 ms	90 ms	35 ms	7.4 KB	200	147.185.114.105
6	http://usm.ac.id/wpscripts.js?ver=4.3.6	application/javascript	3 s	-	-	91 ms	455 ms	61.6 KB	200	147.185.114.105
7	http://usm.ac.id/wpabs.min.js?ver=4.3.6	application/javascript	3.001 s	-	-	104 ms	37 ms	4.5 KB	200	147.185.114.105
8	http://usm.ac.id/wpase.min.js?ver=4.3.6	application/javascript	3.001 s	-	-	100 ms	172 ms	15.9 KB	200	147.185.114.105
9	http://usm.ac.id/wpgo-usm-semarang2.png	image/png	3.001 s	-	-	101 ms	211 ms	20.3 KB	200	147.185.114.105
10	http://fonts.gstaticVIZ0nv9q090hN8.woff2	font/woff2	3.008 s	27 ms	34 ms	46 ms	110 ms	21.3 KB	200	172.217.2.195
11	http://fonts.gstaticLd792ULpGE4W Y.woff2	font/woff2	3.047 s	-	35 ms	37 ms	208 ms	22.4 KB	200	172.217.2.195
12	http://www.usm.ac.id/player.js	application/javascript	3.057 s	100 ms	74 ms	92 ms	78 ms	7.8 KB	200	147.185.114.105
13	http://usm.ac.id/wpbasNeue-webfont.woff	application/x-font-woff	3.071 s	-	71 ms	91 ms	171 ms	18.0 KB	200	147.185.114.105
14	http://usm.ac.id/wpntello.woff?88026028	application/x-font-woff	3.076 s	-	76 ms	97 ms	150 ms	15.4 KB	200	147.185.114.105
15	http://usm.ac.id/wp16/11/USM-Victor.jpg	image/jpeg	3.143 s	-	-	92 ms	2031 ms	256.0 KB	200	147.185.114.105
16	http://usm.ac.id/wpm-victor-272x125.jpg	image/jpeg	3.274 s	-	-	90 ms	70 ms	12.3 KB	200	147.185.114.105
17	http://usm.ac.id/wpder_usm176777711.png	image/png	3.313 s	-	-	87 ms	1551 ms	195.7 KB	200	147.185.114.105
18	http://usm.ac.id/wpges/main-menu-bg.png	image/png	3.325 s	-	-	94 ms	22 ms	3.1 KB	200	147.185.114.105
19	http://usm.ac.id/wpaekwondo-272x125.jpg	image/jpeg	3.334 s	-	-	87 ms	106 ms	15.6 KB	200	147.185.114.105
20	http://usm.ac.id/wphifa/images/home.png	image/png	3.435 s	-	-	88 ms	11 ms	2.0 KB	200	147.185.114.105
21	http://usm.ac.id/wpfa/images/stripe.png	image/png	3.443 s	-	-	86 ms	-	0.4 KB	200	147.185.114.105
22	http://usm.ac.id/wp/11/voli-272x125.jpg	image/jpeg	3.528 s	-	-	85 ms	144 ms	17.9 KB	200	147.185.114.105

#### **Full Optimization Checklist**

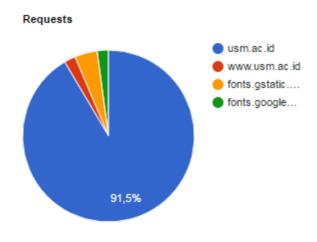
	Keep-Alive	GZip	Compress Img	Progressive	Cache Static	CDN Detected
http://usm.ac.id/	100%	26%	88%	73%	4%	2%
1: usm.ac.id - /	<b>✓</b>	8				
2: usm.ac.id - style.css	<b>✓</b>	8			8	8
3: fonts.googleapis.com – css		<b>√</b>			<b>3</b>	<b>√</b>
4: usm.ac.id – jquery.js	<b>✓</b>	8			8	8
5: usm.ac.id – jquery–migrate.min.js	<b>/</b>	8			<b>3</b>	8
6: usm.ac.id – tie-scripts.js	<b>✓</b>	8			€3	8
7: usm.ac.id - tabs.min.js	<b>/</b>	8			<b>3</b>	8
8: usm.ac.id – wp-emoji-release.min.js	<b>✓</b>	8			8	8
9: usm.ac.id – logo-usm-semarang2.png	/		<b>1</b>		<b>②</b>	8
10: fonts.gstatic.cIZOnv9q090hN8.woff2	<i>y</i>				J ,	_
11: fonts.gstatic.cd792ULpGE4W_Y.woff2	1				<b>V</b>	
12: www.usm.ac.id – player.js	<i>y</i>	8			8	8
13: usm.ac.id - BebasNeue-webfont.woff	1	_			<b>②</b>	
14: usm.ac.id – tiefontello.woff	<i>y</i>				8	
15: usm.ac.id – USM–Victor.jpg	1		1	8	<b>©</b>	8
16: usm.ac.id – usm-victor–272x125.jpg	<i>y</i>		<b> </b>	8	8	8
17: usm.ac.id - header_usm176777711.png	1		1	_	<b>©</b>	8
18: usm.ac.id – main–menu–bg.png	<i>y</i>		<b>V</b>		8	8
19: usm.ac.id - taekwondo-272x125.jpg	1		<b>1</b>	€3	<b>©</b>	8
20: usm.ac.id – home.png	1		j j	_	<b>©</b>	8
21: usm.ac.id – stripe.png	1		<b>1</b>		<b>©</b>	8
22: usm.ac.id – voli–272x125.jpg	1		j j	8	<b>©</b>	8
23: usm.ac.id – dudoks–150x1501.png	1		<b>1</b>		<b>©</b>	8
24: usm.ac.id – black–loader.gif	1		j j		8	8
25: usm.ac.id - LOGO-TV-copy-copy-2.png	1		J		<b>8</b>	8
26: usm.ac.id – 4_Banner_SIJALU.png	1		J J		Ø	8
27: usm.ac.id - 3_Banner_DIGILIB.png	1		J		Ø	Ö
28: usm.ac.id – springer.png	1		J		Ø	8
29: usm.ac.id – ppa.jpg	j j		1	<b>②</b>	Ø	Ö
30: usm.ac.id – pkm–1–copy–copy.jpg	1		1	Ø	Ø	8
31: usm.ac.id – taylor1.jpg	1		J 7	1	<b>8</b>	8

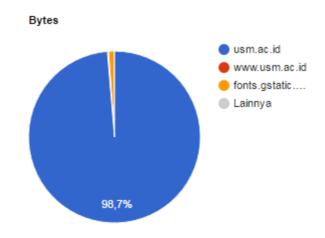
# File Bermasalah (Tanda Merah)

	I				
✓.		<b>√</b>	₩		8
<b>✓</b>		<b>√</b>		_	8
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<b> </b>		<b> </b>		<b>②</b>	8
✓ ✓		<b>√</b>		8	8
✓ /		<b> </b>		8	8
✓ /		<b>√</b>		8	8
✓ /		<b> </b>		8	8
<b>V</b>		<b>√</b>		8	8
1		1	8	8	8
<b>V</b>		1	8	8	8
1		<b></b>	1	8	8
<b>V</b>		<b>V</b>	_	8	8
J J		J J		8	8
<i>J</i>		<b>V</b>		8	8
<b>1</b>		1	8	8	8
<i>i</i>		1	8		8
<b>1</b>		J 7	J		8
<i>\</i>		1	8		8
<i>'</i>		1	8	8	8
/		<b>J</b>		<b>(2)</b>	8
J		j j			8
J		J			8
j j		j j			8
J		l j			Ø
J		j j		=	Ø
J		l j		Ö	Ö
Keep-Alive	GZip	Compress Img	Progressive	Cache Static	CDN Detected
	*******				

### Load Konten ke Halaman Lain

### Content breakdown by domain (First View)

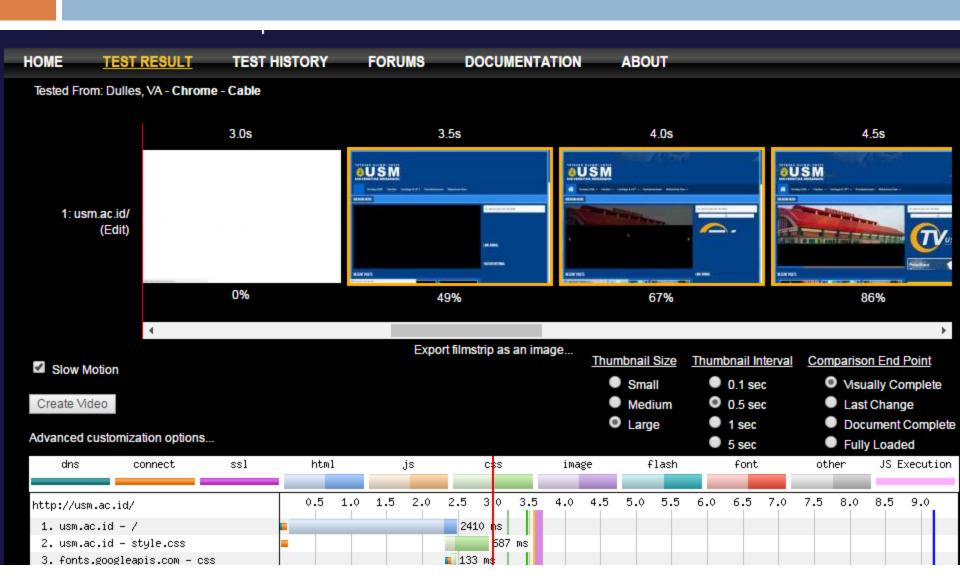




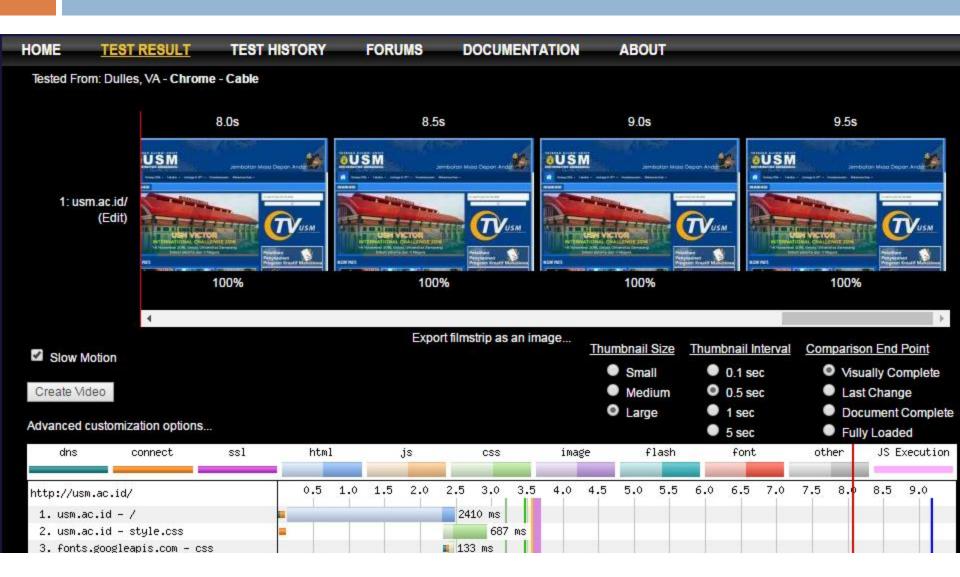
Domain	Requests ▼
usm.ac.id	43
fonts.gstatic.com	2
www.usm.ac.id	1
fonts.googleapis.com	1

Domain	Bytes ▼
usm.ac.id	3.994.757
fonts.gstatic.com	44.726
www.usm.ac.id	8.029
fonts.googleapis.com	873

## Test Result (1)



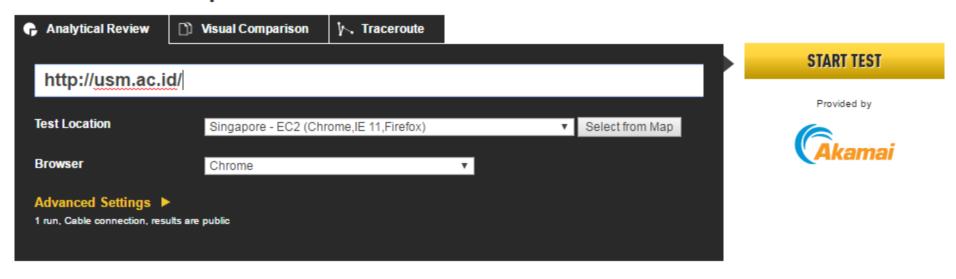
## Test Result (2)



## Lakukan Pengujian Ulang

- Ubah Test Location menjadi Asia (Singapore EC2)
- Start Test

### Test a website's performance



### Test Location diubah Menjadi Asia

- Lokasi Indonesia berdekatan dengan Singapura sehingga kemungkinan hasil testnya berbeda dengan yang sebelumnya.
- Silakan anda amati hasilnya, apakah ada perbedaan??
- Uji coba juga apabila test locationnya anda ubah menjadi benua lain atau negara lain.

### Buat Laporan Testing 2

- Silakan lakukan pengujian lagi untuk CROSS BROWSERS COMPATIBILITY, LINKS VALIDATING dan WEBSITE PERFORMANCE.
- Website yang diuji minimal 3.