



# Demoapp

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*Performance Test Report*

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## 1 Introduction

This report documents the performance characteristics of the Demoapp application. A comparison of response times for all tests is followed by a detailed analysis for each test.

## 2 Workload Definition

The workload definition consists of the test scenarios and the steps for each scenario. The test scenarios that were executed to generate load on the application are outlined below:

### 2.1 Plan: TestDroid page visits

This plan visits all the pages visible to a normal user in the TestDroid application. All transactions are of read-only nature.

Scenario	Steps
All Pages: All the pages in the web-application	<ol style="list-style-type: none"> <li>1. Open: Navigate to the landing page (login screen)</li> <li>2. Login: Login to the application</li> <li>3. View Dashboard: View the dashboard</li> <li>4. Status Codes: View Status Codes page</li> <li>5. Priority Codes: View Priority Codes page</li> <li>6. Testing Types: View Testing Types page</li> <li>7. Platform Component Types: View Platform Component Types page</li> <li>8. Platform Component Data: View Platform Component Data page</li> <li>9. Application Modules: View Application Modules page</li> <li>10. Requirements: View Requirements page</li> <li>11. Test Environments: View Test Environments page</li> <li>12. Test Builds: View Test Builds page</li> <li>13. Test Case Tags: View Test Case Tags page</li> <li>14. Defect Tracking: View Defect Tracking page</li> <li>15. Allocate Test Case Design</li> <li>16. Allocate Test Case Execution</li> <li>17. Test Case Design: View Test Case Design page</li> <li>18. Test Case Review</li> <li>19. Execute Test Cases: View Execute Test Cases page</li> <li>20. Test Case Repository</li> <li>21. Import Test Cases</li> <li>22. Execution Summary Report</li> <li>23. Execution Detail Report</li> <li>24. Application Progress Report</li> <li>25. Logout: Logout from application</li> </ol>

### 3 Workload Iterations

The workload was applied 6 times. The following table shows JMeter plans, the test duration and total number of virtual users.

#	JMeter Plan(s)	Test Duration (hh:mm:ss)	Total Virtual Users
Test 1	TestDroid page visits	00:03:17	40
Test 2	TestDroid page visits	00:03:22	50
Test 3	TestDroid page visits	00:03:15	60
Test 4	TestDroid page visits	00:06:18	100
Test 5	TestDroid page visits	00:10:17	100
Test 6	TestDroid page visits	00:20:15	100

### 4 Test Environment

The test environment consisted of two main components - the load generation clusters and the application infrastructure. The Hailstorm application drove the load generation via the clusters.

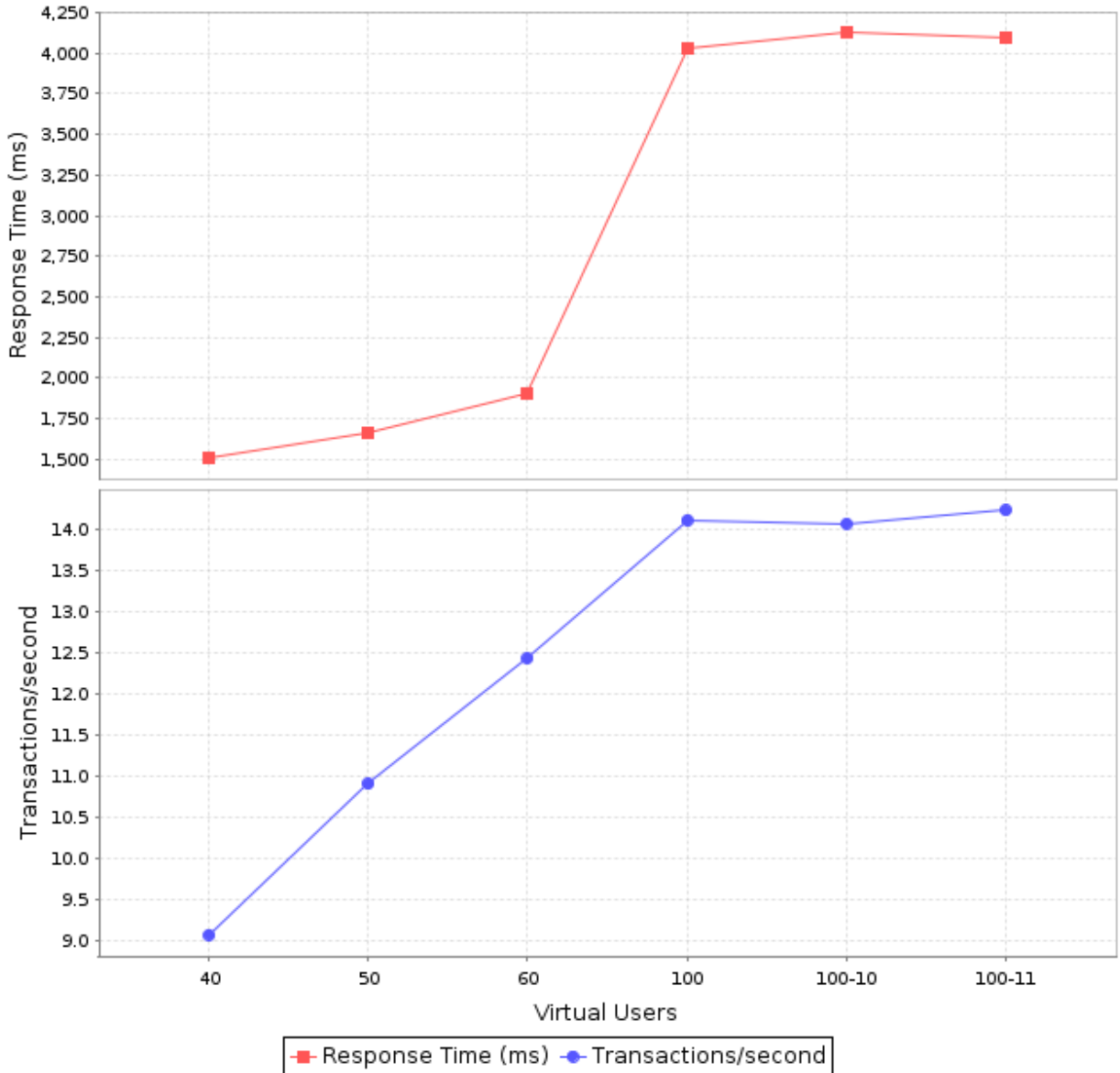
#### 4.1 Load Generation Clusters

The following clusters were used for load generation:

1. Amazon Cloud, region: us-east-1
2. Amazon Cloud, region: us-west-1

### 5 Client Performance vs Workload Iterations

The following graph compares the 90% percentile response time and transactions per second (TPS) across all workload iterations. *Add observations here on the nature of the graph, for example: the response time for 90% percentile users was observed to be much higher than the acceptance criteria established.*



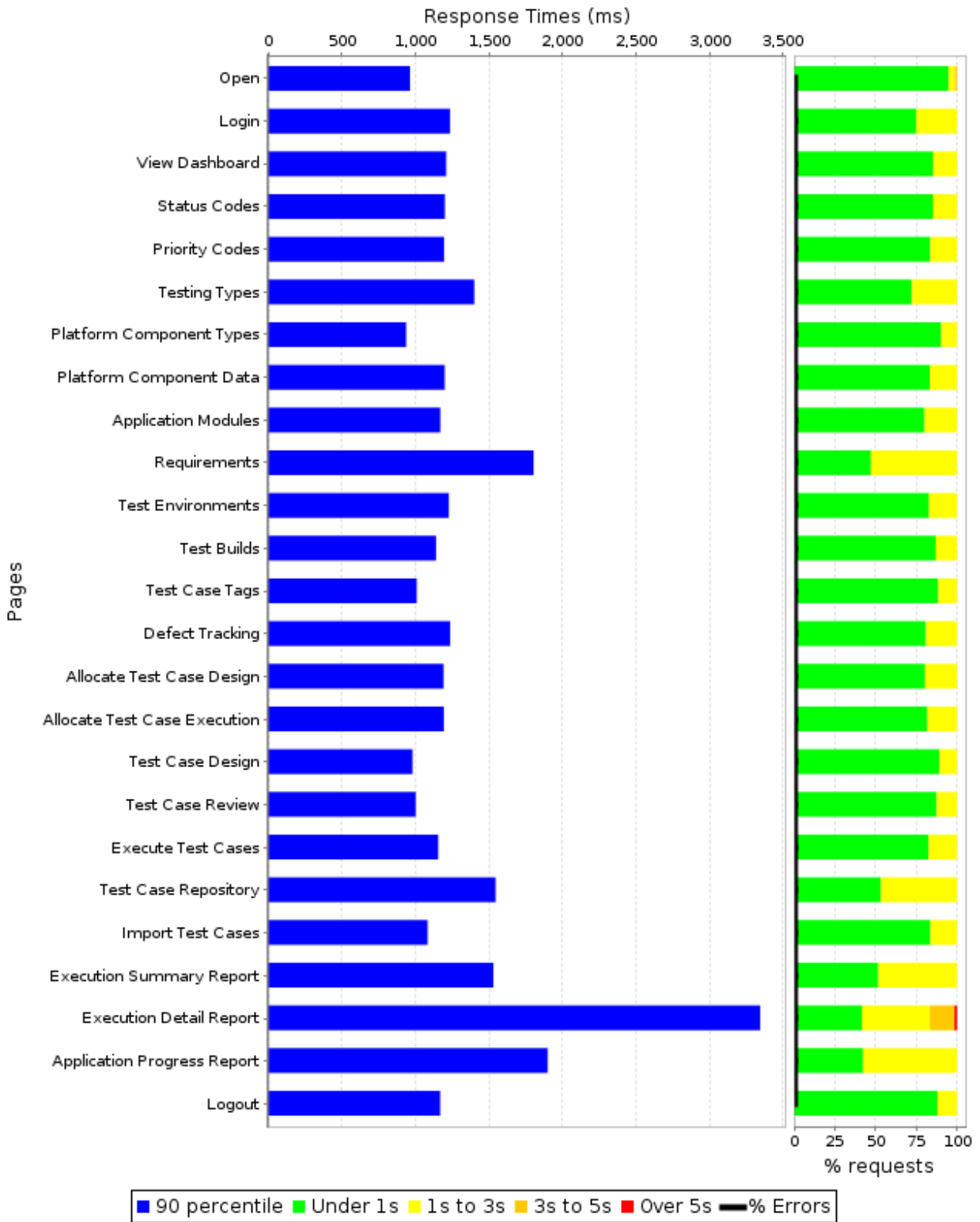
## 6 Execution Results #1, Virtual Users: 40

The cluster-wise aggregate statistics for the test and corresponding resource utilization on monitored servers is as follows.

### 6.1 Cluster: Amazon Cloud, region: us-east-1

#### 6.1.1 Test: TestDroid page visits, Virtual Users: 20

The following graph shows the response time of all the pages and a breakup of percentage requests within different thresholds, followed by the aggregate summary of the requests in the tests grouped by same page label.



### 6.1.1.1 Detailed Metrics

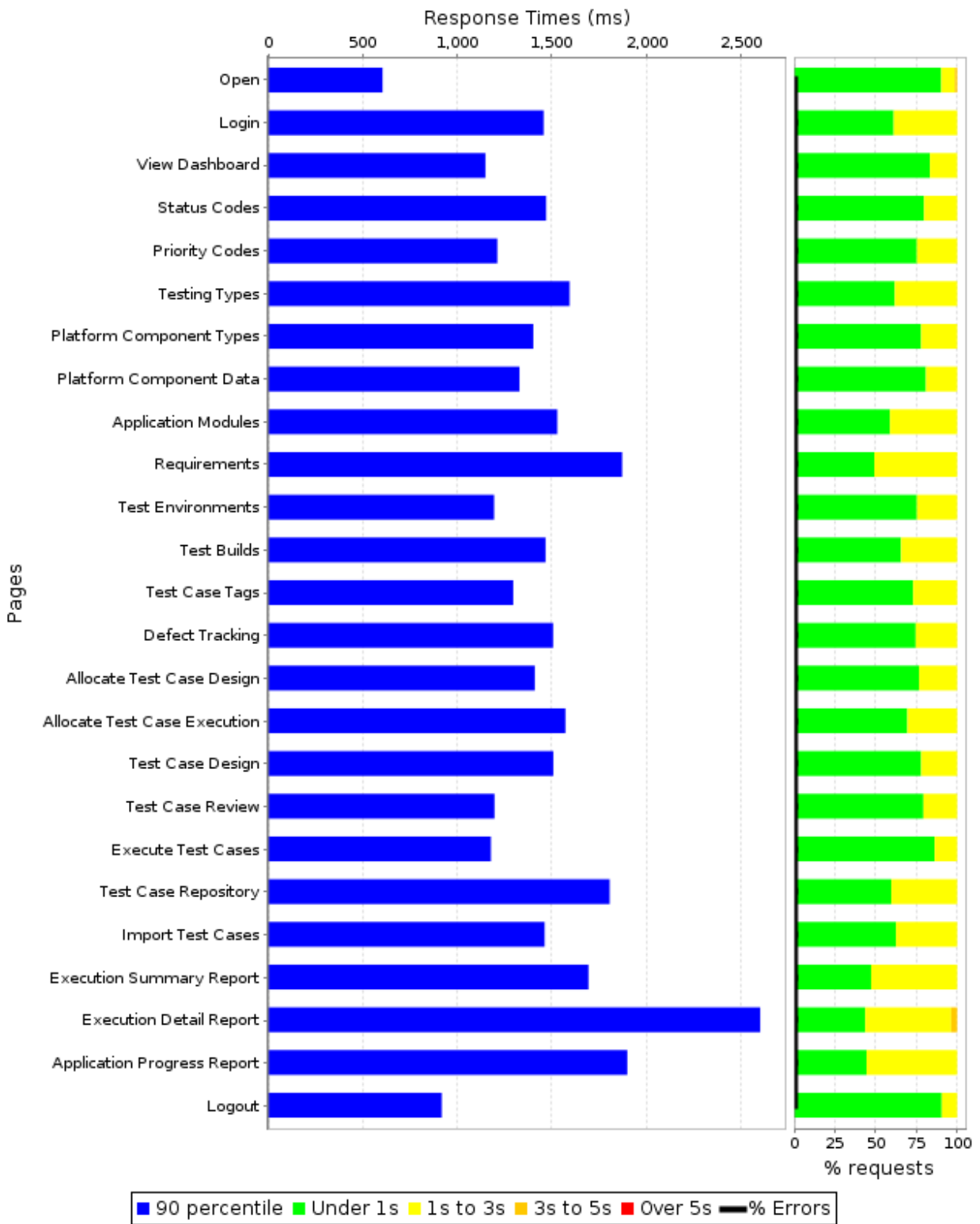
Page Label	# Samples	Response Time (milliseconds)					% Errors	Transactions / second	Bytes / second
		Min	Average	Median	90 <sup>th</sup> Centile	Max			

Open	77	231	500	386	964	3495	0.0	0.43	2.33
Login	76	233	741	739	1236	2491	0.0	0.44	5.41
View Dashboard	75	345	723	525	1210	1712	0.0	0.43	5.28
Status Codes	74	304	721	696	1201	1732	0.0	0.43	5.58
Priority Codes	73	257	709	695	1196	1724	0.0	0.43	5.62
Testing Types	72	461	872	733	1401	2555	0.0	0.44	8.54
Platform Component Types	72	260	662	526	938	2273	0.0	0.44	5.64
Platform Component Data	72	253	713	701	1200	1490	0.0	0.44	5.15
Application Modules	70	468	779	719	1170	2111	0.0	0.45	9.88
Requirements	70	464	1066	1093	1804	2339	0.0	0.44	18.37
Test Environments	70	301	788	713	1228	2586	0.0	0.44	5.73
Test Builds	69	463	730	698	1141	1493	0.0	0.45	8.24
Test Case Tags	69	260	639	511	1010	1502	0.0	0.44	5.83
Defect Tracking	68	266	730	552	1237	1680	0.0	0.44	5.78
Allocate Test Case Design	66	467	772	709	1192	1529	0.0	0.44	6.65
Allocate Test Case Execution	66	335	764	706	1194	2000	0.0	0.44	7.8
Test Case Design	65	352	708	701	981	1441	0.0	0.43	6.17
Test Case Review	64	267	719	703	1003	1548	0.0	0.44	6.06
Execute Test Cases	63	464	757	703	1156	1812	0.0	0.43	6.56
Test Case Repository	62	469	1005	889	1546	2381	0.0	0.43	13.75
Import Test Cases	61	463	738	699	1084	1706	0.0	0.43	6.77
Execution Summary Report	60	471	981	911	1531	1945	0.0	0.43	7.19
Execution Detail Report	60	463	1634	1408	3344	5138	0.0	0.42	36.32
Application Progress Report	59	471	1183	1226	1900	2587	0.0	0.42	5.74
Logout	58	462	648	489	1169	1847	0.0	0.42	2.49

## 6.2 Cluster: Amazon Cloud, region: us-west-1

### 6.2.1 Test: TestDroid page visits, Virtual Users: 20

The following graph shows the response time of all the pages and a breakup of percentage requests within different thresholds, followed by the aggregate summary of the requests in the tests grouped by same page label.



### 6.2.1.1 Detailed Metrics

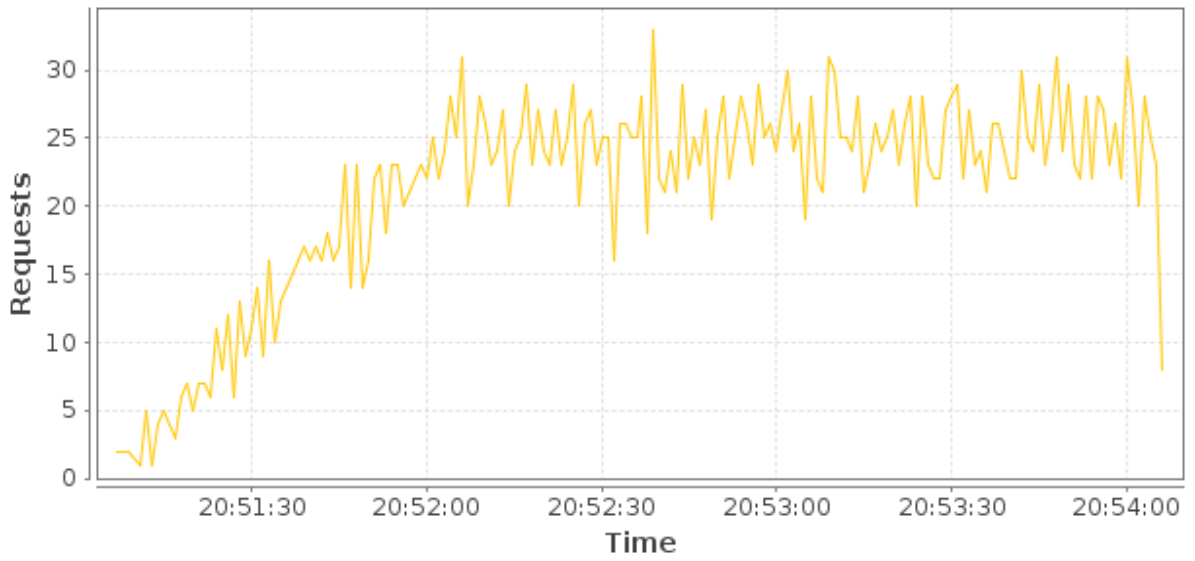
Page Label	# Samples	Response Time (milliseconds)					% Errors	Transactions / second	Bytes / second
		Min	Average	Median	90 <sup>th</sup> Centile	Max			

Open	72	281	499	299	605	4176	0.0	0.41	2.2
Login	72	283	864	881	1457	2298	0.0	0.42	5.17
View Dashboard	72	311	819	861	1149	2105	0.0	0.42	5.13
Status Codes	69	305	822	608	1470	1779	0.0	0.41	5.33
Priority Codes	69	317	834	629	1212	1772	0.0	0.41	5.36
Testing Types	68	340	970	857	1594	2284	0.0	0.42	8.24
Platform Component Types	68	309	869	852	1402	2063	0.0	0.42	5.45
Platform Component Data	68	310	834	706	1329	2063	0.0	0.43	4.98
Application Modules	68	557	972	878	1529	2168	0.0	0.42	9.41
Requirements	65	557	1192	973	1872	2956	0.0	0.42	17.18
Test Environments	65	336	854	849	1195	2024	0.0	0.42	5.4
Test Builds	64	561	951	873	1467	2115	0.0	0.42	7.8
Test Case Tags	63	333	891	832	1296	2440	0.0	0.42	5.46
Defect Tracking	63	310	939	858	1507	2374	0.0	0.42	5.43
Allocate Test Case Design	60	331	897	839	1410	2890	0.0	0.41	6.04
Allocate Test Case Execution	59	332	951	853	1572	2220	0.0	0.41	7.19
Test Case Design	59	333	864	686	1508	1796	0.0	0.41	5.7
Test Case Review	58	330	795	721	1197	1453	0.0	0.41	5.72
Execute Test Cases	58	312	841	852	1178	2081	0.0	0.41	6.28
Test Case Repository	57	563	1080	876	1806	2926	0.0	0.41	13.06
Import Test Cases	56	563	966	860	1462	1859	0.0	0.41	6.54
Execution Summary Report	55	560	1135	1140	1694	2394	0.0	0.41	6.76
Execution Detail Report	55	565	1613	1475	2602	4409	0.0	0.4	33.89
Application Progress Report	54	559	1227	1131	1899	2316	0.0	0.41	5.45
Logout	53	559	770	620	918	1865	0.0	0.4	2.38

### 6.3 Requests/Second Graph

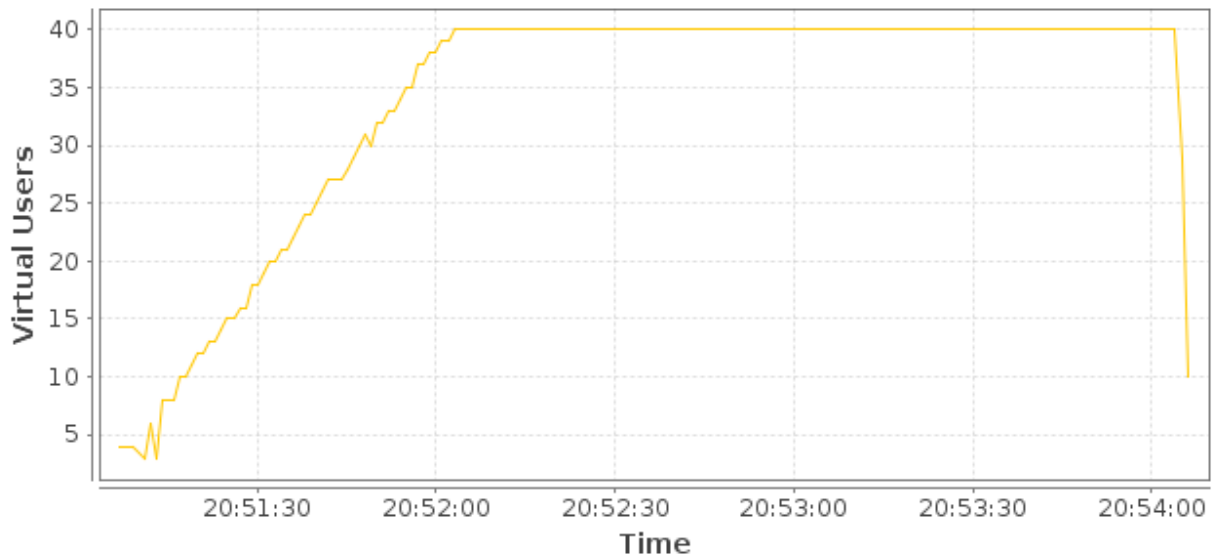
The following graph shows the hits (requests) per second for the duration of the test.





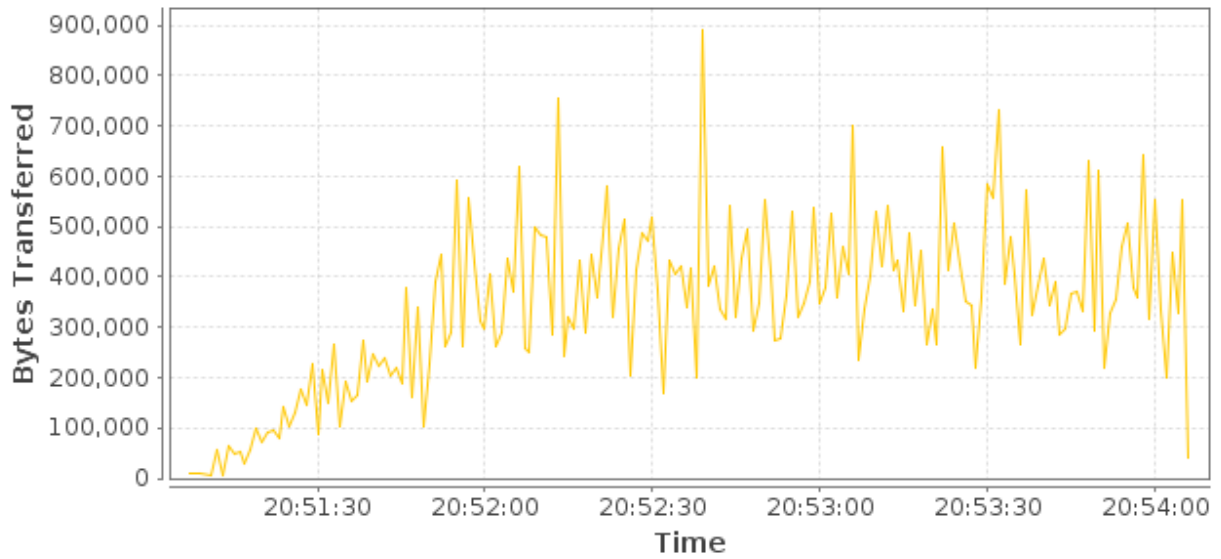
### 6.4 Virtual Users/Second Graph

The following graph shows the virtual users (threads) per second for the duration of the test.



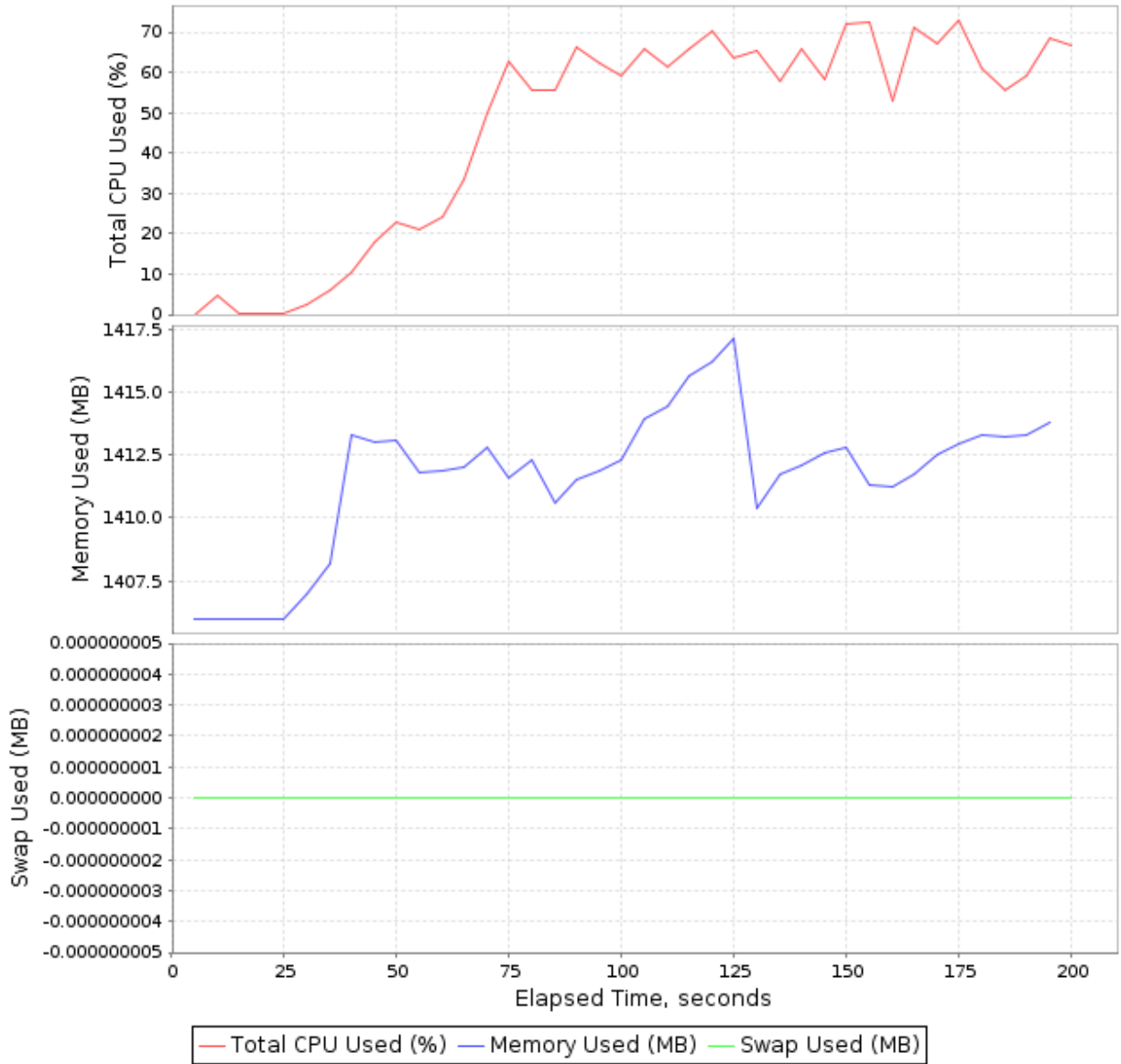
### 6.5 Bytes/Second Graph

The following graph shows the bytes transferred per second for the duration of the test.



## 6.6 Resource Utilization on Application Server qa.brickred.com

The following graph shows the % total CPU used (across all CPUs in the system), the memory (RAM) usage and swap space usage for the duration of the test.



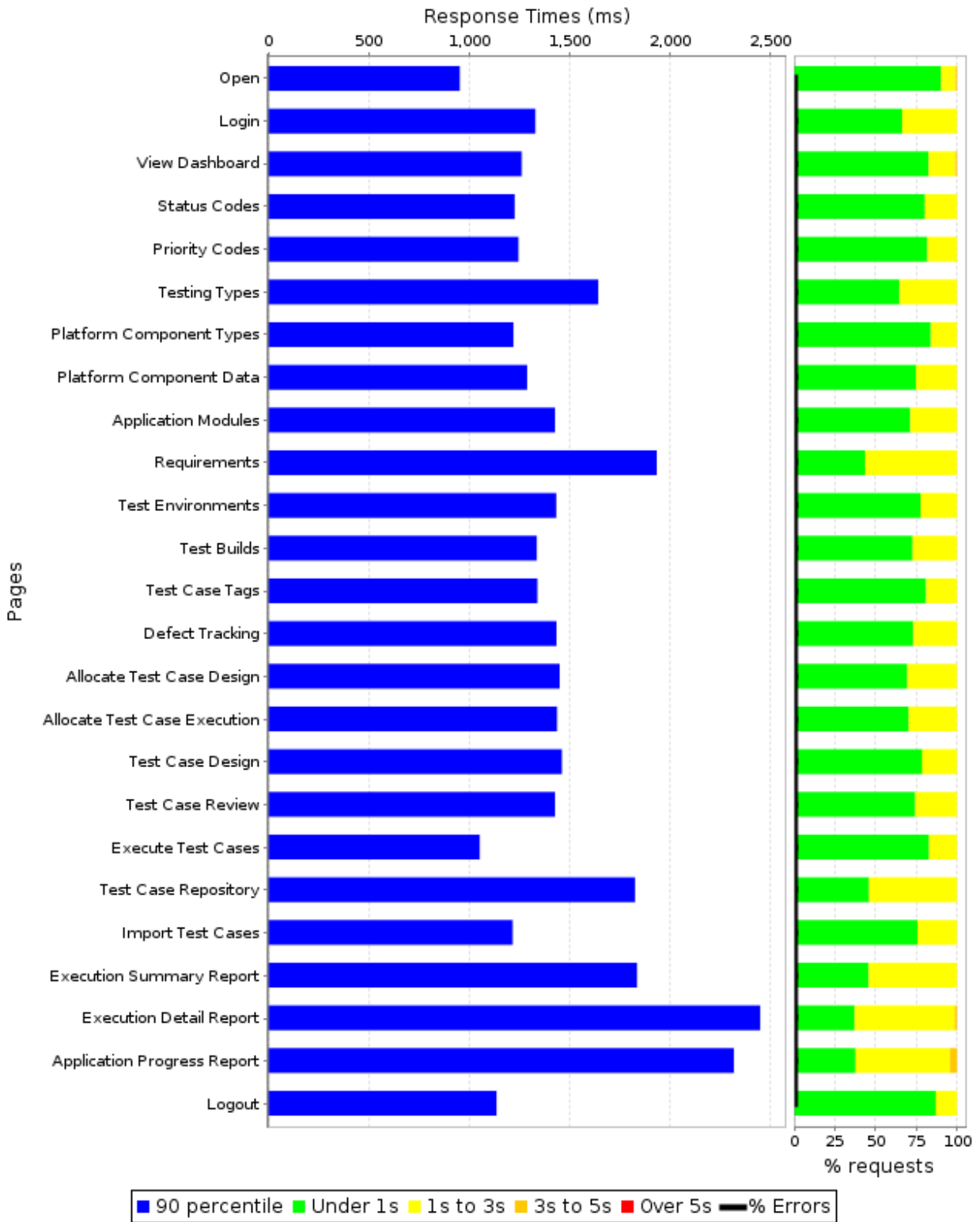
## 7 Execution Results #2, Virtual Users: 50

The cluster-wise aggregate statistics for the test and corresponding resource utilization on monitored servers is as follows.

### 7.1 Cluster: Amazon Cloud, region: us-east-1

#### 7.1.1 Test: TestDroid page visits, Virtual Users: 25

The following graph shows the response time of all the pages and a breakup of percentage requests within different thresholds, followed by the aggregate summary of the requests in the tests grouped by same page label.



### 7.1.1.1 Detailed Metrics

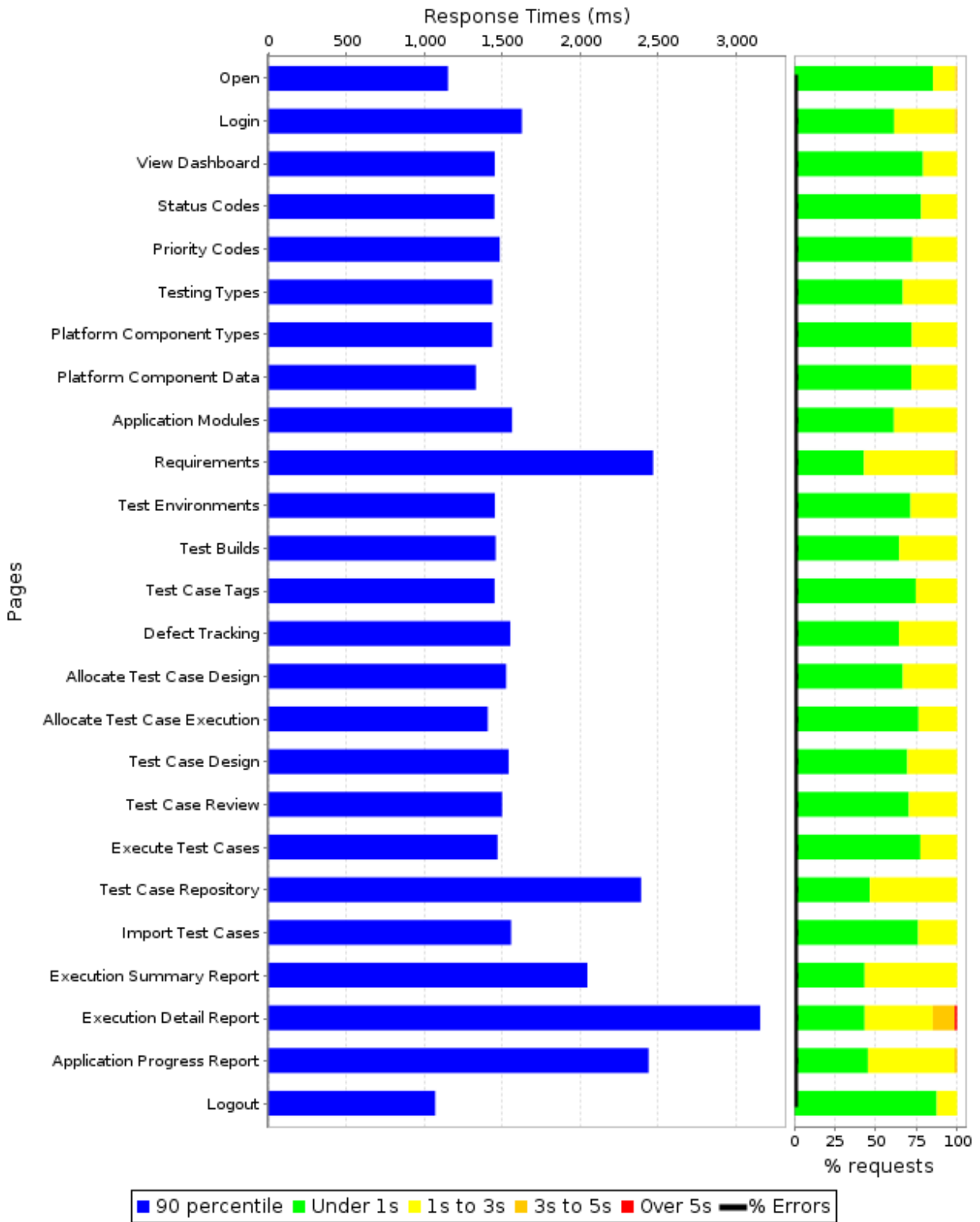
Page Label	# Samples	Response Time (milliseconds)					% Errors	Transactions / second	Bytes / second
		Min	Average	Median	90 <sup>th</sup> Centile	Max			

Open	92	233	483	248	954	3303	0.0	0.52	2.83
Login	92	236	816	746	1330	2445	0.0	0.53	6.56
View Dashboard	92	263	779	676	1262	3222	0.0	0.53	6.51
Status Codes	91	258	746	696	1227	1874	0.0	0.53	6.7
Priority Codes	88	257	732	618	1246	1704	0.0	0.52	6.7
Testing Types	88	443	899	741	1643	2375	0.0	0.52	10.13
Platform Component Types	87	260	711	552	1221	2029	0.0	0.53	6.83
Platform Component Data	87	261	768	649	1289	1929	0.0	0.53	6.24
Application Modules	87	465	890	764	1428	2353	0.0	0.53	11.87
Requirements	85	468	1167	1205	1934	2759	0.0	0.53	21.7
Test Environments	85	269	805	706	1434	2120	0.0	0.53	6.82
Test Builds	84	466	841	718	1337	2346	0.0	0.53	9.96
Test Case Tags	84	269	749	549	1340	2379	0.0	0.53	7.0
Defect Tracking	82	264	793	703	1435	1504	0.0	0.53	6.97
Allocate Test Case Design	82	467	873	732	1451	2543	0.0	0.53	8.04
Allocate Test Case Execution	81	323	887	717	1438	2142	0.0	0.53	9.36
Test Case Design	79	274	779	706	1462	2077	0.0	0.52	7.3
Test Case Review	78	286	805	718	1428	1558	0.0	0.52	7.17
Execute Test Cases	76	269	706	651	1053	1615	0.0	0.51	7.69
Test Case Repository	76	467	1064	1052	1826	2249	0.0	0.51	16.19
Import Test Cases	74	289	789	728	1217	1788	0.0	0.5	8.02
Execution Summary Report	72	469	1102	1041	1836	2409	0.0	0.49	8.07
Execution Detail Report	70	464	1502	1486	2449	3156	0.0	0.48	41.52
Application Progress Report	69	475	1421	1227	2318	3417	0.0	0.49	6.67
Logout	69	467	646	493	1137	1320	0.0	0.49	2.9

## 7.2 Cluster: Amazon Cloud, region: us-west-1

### 7.2.1 Test: TestDroid page visits, Virtual Users: 25

The following graph shows the response time of all the pages and a breakup of percentage requests within different thresholds, followed by the aggregate summary of the requests in the tests grouped by same page label.



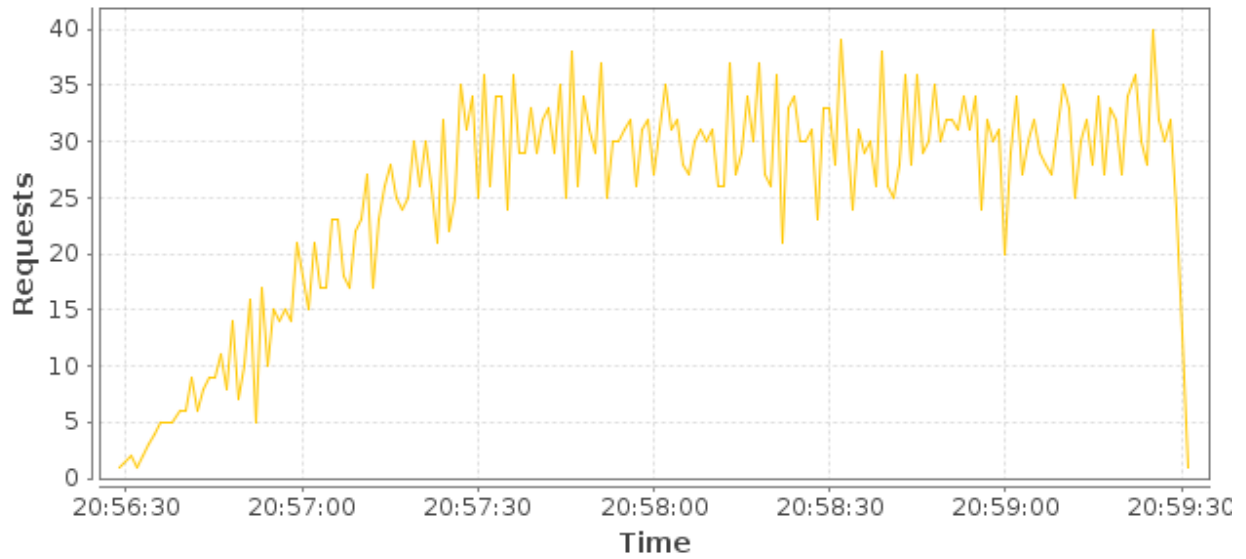
### 7.2.1.1 Detailed Metrics

Page Label	# Samples	Response Time (milliseconds)					% Errors	Transactions / second	Bytes / second
		Min	Average	Median	90 <sup>th</sup> Centile	Max			

Open	88	281	545	306	1154	3727	0.0	0.49	2.67
Login	88	286	888	890	1628	3093	0.0	0.5	6.21
View Dashboard	86	316	867	833	1454	2124	0.0	0.5	6.15
Status Codes	86	309	898	746	1452	2829	0.0	0.5	6.45
Priority Codes	84	307	891	835	1486	2019	0.0	0.51	6.52
Testing Types	84	401	945	838	1439	2145	0.0	0.51	9.88
Platform Component Types	83	308	880	839	1438	2140	0.0	0.5	6.43
Platform Component Data	82	304	855	845	1333	1810	0.0	0.51	5.91
Application Modules	80	561	1013	891	1565	2360	0.0	0.5	10.98
Requirements	77	563	1439	1397	2470	3094	0.0	0.49	20.45
Test Environments	77	325	904	843	1455	2589	0.0	0.49	6.45
Test Builds	76	379	957	776	1460	2595	0.0	0.49	9.21
Test Case Tags	75	310	894	823	1453	2243	0.0	0.49	6.41
Defect Tracking	73	307	972	867	1554	2103	0.0	0.48	6.3
Allocate Test Case Design	72	384	1009	890	1527	2950	0.0	0.49	7.49
Allocate Test Case Execution	72	450	885	848	1409	2310	0.0	0.5	8.98
Test Case Design	72	324	939	868	1543	2548	0.0	0.5	7.03
Test Case Review	71	341	903	707	1501	2120	0.0	0.51	6.99
Execute Test Cases	71	485	921	800	1472	2520	0.0	0.51	7.7
Test Case Repository	71	563	1244	1177	2393	2847	0.0	0.51	16.28
Import Test Cases	67	337	880	695	1559	2037	0.0	0.5	7.88
Execution Summary Report	67	558	1278	1248	2048	2778	0.0	0.49	8.21
Execution Detail Report	67	569	1734	1223	3157	5017	0.0	0.49	41.57
Application Progress Report	64	571	1422	1471	2441	3062	0.0	0.48	6.48
Logout	64	559	778	638	1072	1600	0.0	0.48	2.85

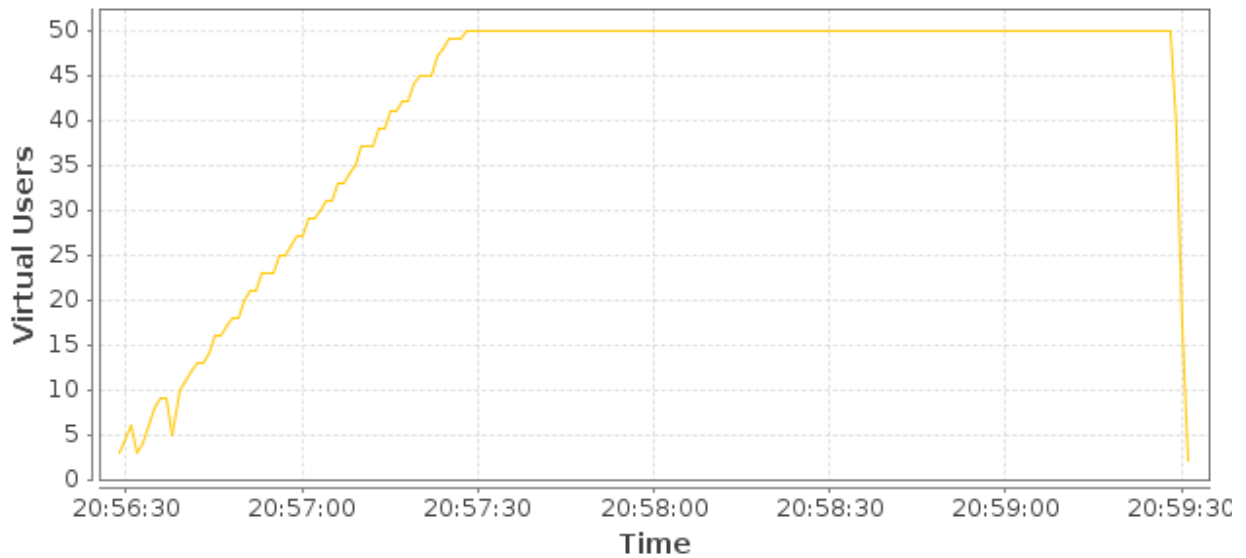
### 7.3 Requests/Second Graph

The following graph shows the hits (requests) per second for the duration of the test.



#### 7.4 Virtual Users/Second Graph

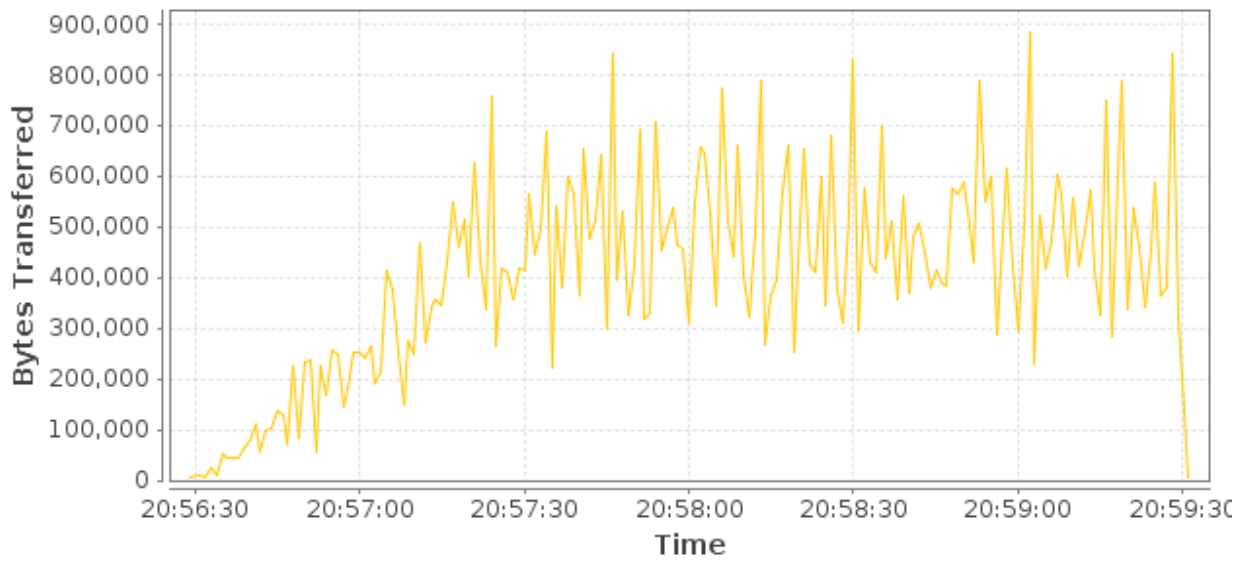
The following graph shows the virtual users (threads) per second for the duration of the test.



#### 7.5 Bytes/Second Graph

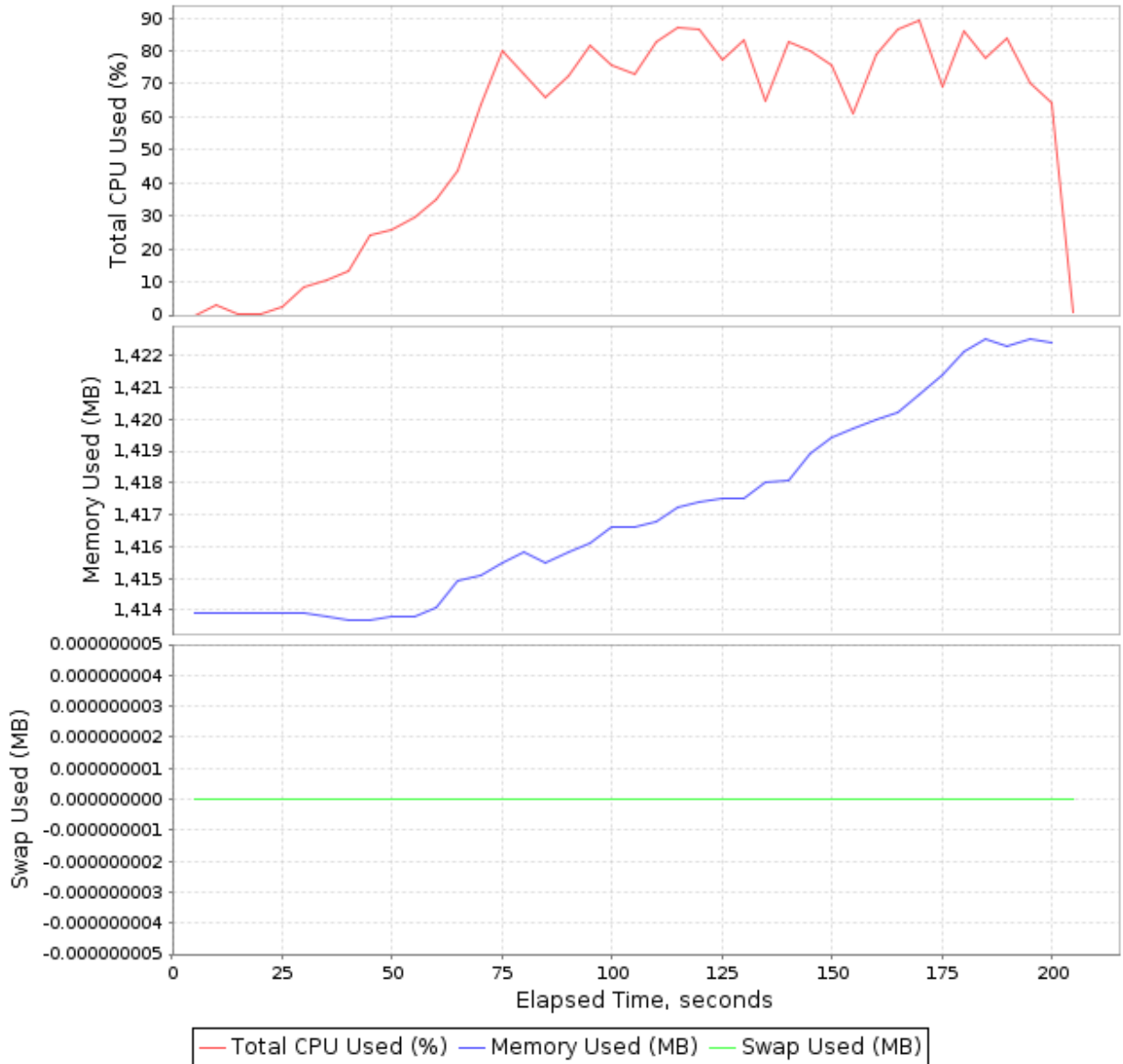
The following graph shows the bytes transferred per second for the duration of the test.





## 7.6 Resource Utilization on Application Server qa.brickred.com

The following graph shows the % total CPU used (across all CPUs in the system), the memory (RAM) usage and swap space usage for the duration of the test.



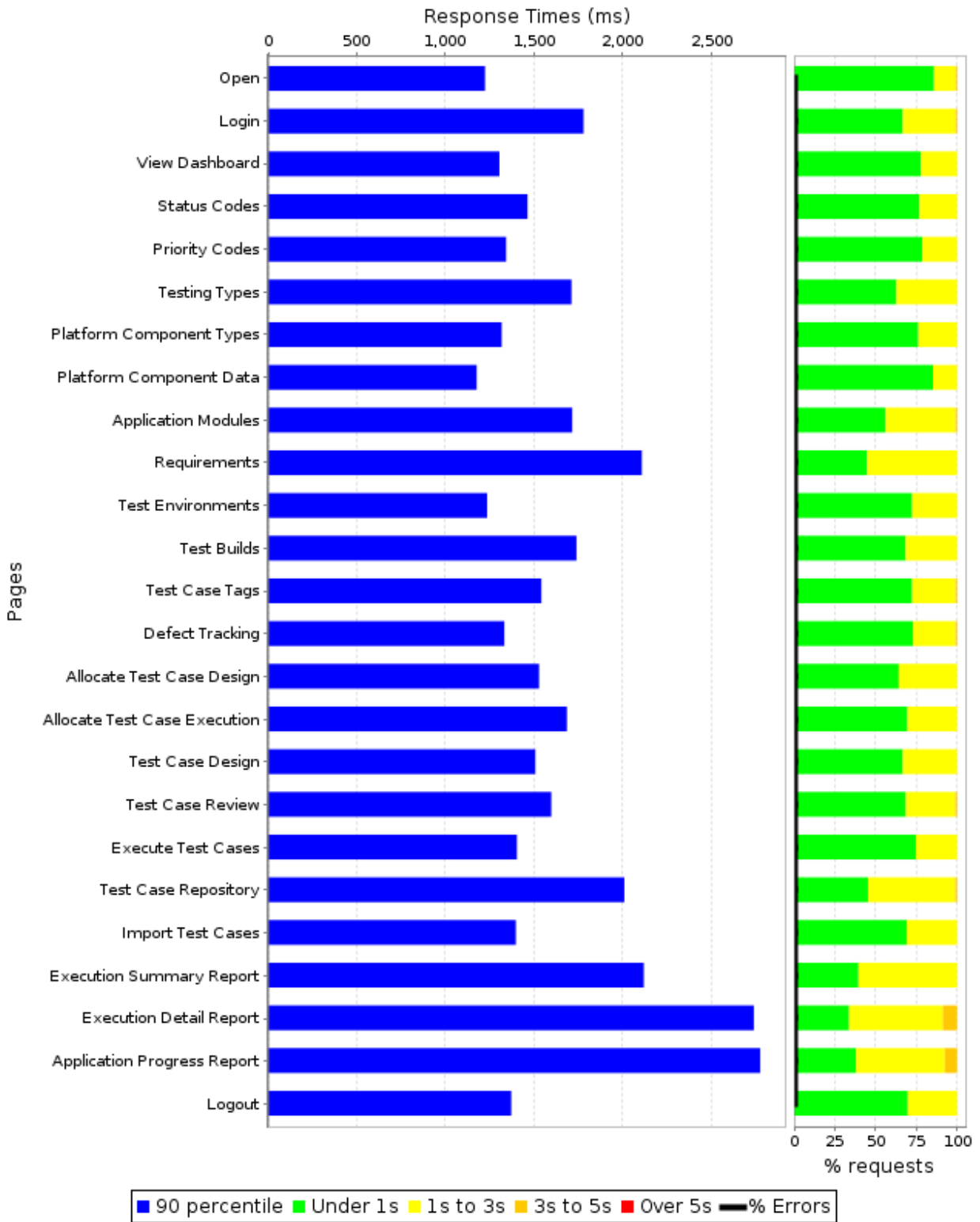
## 8 Execution Results #3, Virtual Users: 60

The cluster-wise aggregate statistics for the test and corresponding resource utilization on monitored servers is as follows.

### 8.1 Cluster: Amazon Cloud, region: us-east-1

#### 8.1.1 Test: TestDroid page visits, Virtual Users: 30

The following graph shows the response time of all the pages and a breakup of percentage requests within different thresholds, followed by the aggregate summary of the requests in the tests grouped by same page label.



### 8.1.1.1 Detailed Metrics

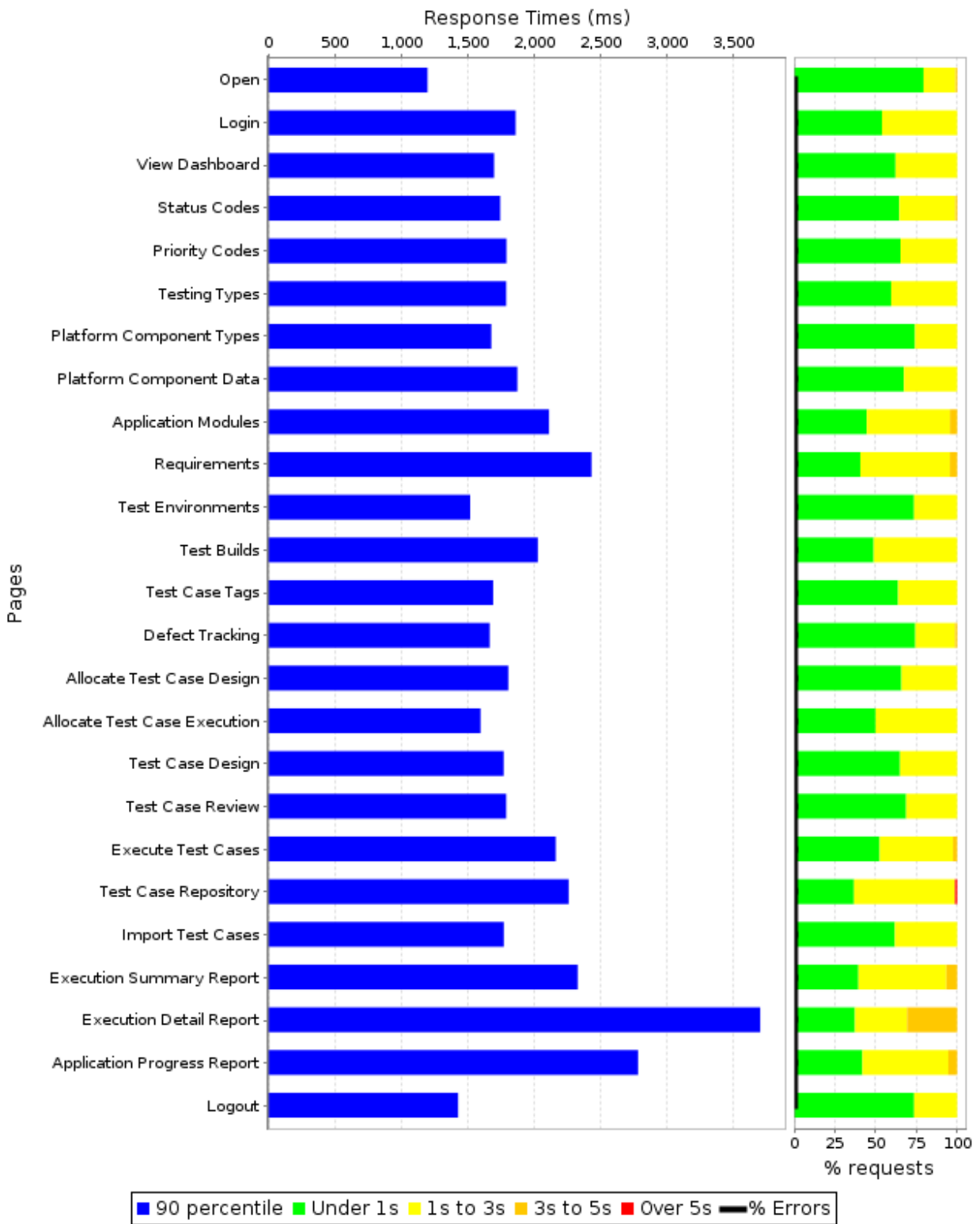
Page Label	# Samples	Response Time (milliseconds)					% Errors	Transactions / second	Bytes / second
		Min	Average	Median	90 <sup>th</sup> Centile	Max			

Open	106	235	610	465	1224	3547	0.0	0.59	3.2
Login	105	236	912	760	1780	3969	0.0	0.6	7.46
View Dashboard	104	266	769	704	1305	2013	0.0	0.6	7.38
Status Codes	104	259	839	713	1464	2719	0.0	0.6	7.68
Priority Codes	103	254	790	714	1343	2633	0.0	0.6	7.63
Testing Types	102	467	981	832	1712	2315	0.0	0.6	11.72
Platform Component Types	101	263	791	709	1318	1884	0.0	0.6	7.7
Platform Component Data	101	254	725	611	1177	2056	0.0	0.61	7.04
Application Modules	98	467	1033	796	1716	3339	0.0	0.62	13.81
Requirements	98	469	1185	1070	2109	2866	0.0	0.62	25.67
Test Environments	98	266	817	714	1236	2169	0.0	0.62	7.99
Test Builds	98	279	905	741	1740	2184	0.0	0.62	11.58
Test Case Tags	98	267	911	738	1542	3548	0.0	0.62	8.22
Defect Tracking	96	267	883	741	1333	3759	0.0	0.61	8.09
Allocate Test Case Design	95	274	920	766	1529	2965	0.0	0.61	9.26
Allocate Test Case Execution	92	355	914	773	1686	2303	0.0	0.6	10.79
Test Case Design	90	271	897	733	1508	2509	0.0	0.59	8.31
Test Case Review	89	297	902	727	1598	3086	0.0	0.59	8.1
Execute Test Cases	87	268	805	725	1404	2103	0.0	0.58	8.86
Test Case Repository	86	466	1159	1052	2010	3281	0.0	0.58	18.9
Import Test Cases	84	305	902	733	1398	2946	0.0	0.58	9.22
Execution Summary Report	81	467	1296	1213	2120	2767	0.0	0.56	9.32
Execution Detail Report	80	471	1652	1872	2741	3569	0.0	0.56	48.24
Application Progress Report	79	465	1569	1592	2777	4087	0.0	0.56	7.68
Logout	76	466	837	709	1372	1907	0.0	0.56	3.33

## 8.2 Cluster: Amazon Cloud, region: us-west-1

### 8.2.1 Test: TestDroid page visits, Virtual Users: 30

The following graph shows the response time of all the pages and a breakup of percentage requests within different thresholds, followed by the aggregate summary of the requests in the tests grouped by same page label.



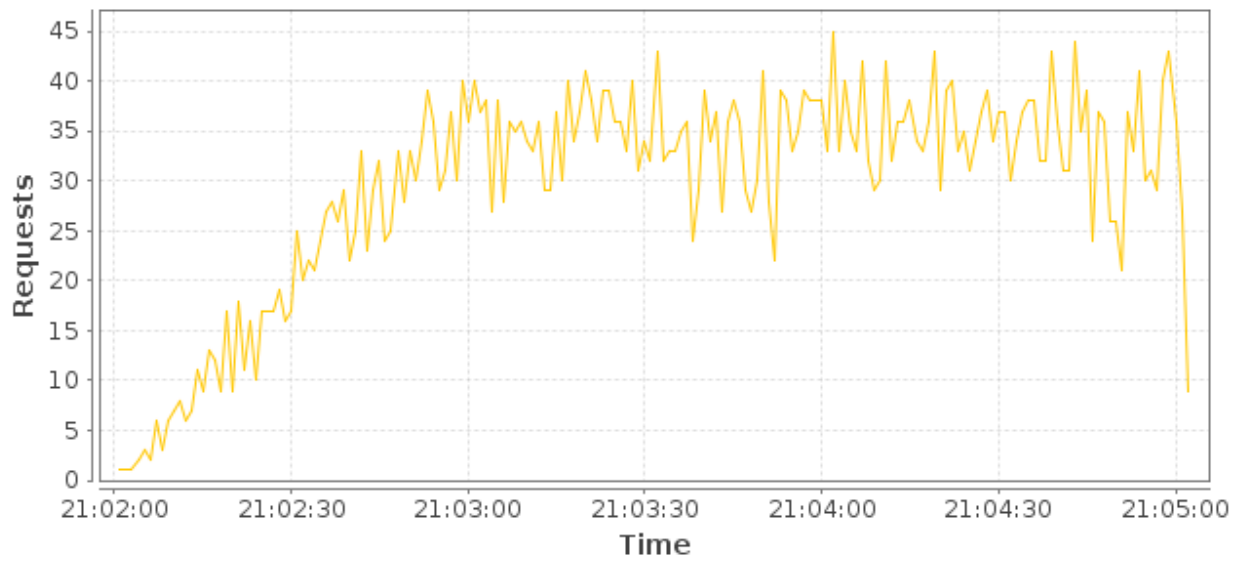
### 8.2.1.1 Detailed Metrics

Page Label	# Samples	Response Time (milliseconds)					% Errors	Transactions / second	Bytes / second
		Min	Average	Median	90 <sup>th</sup> Centile	Max			

Open	102	281	667	407	1199	4170	0.0	0.57	3.09
Login	102	283	1004	950	1862	2222	0.0	0.58	7.18
View Dashboard	98	310	1012	880	1700	2539	0.0	0.57	6.94
Status Codes	96	319	1026	894	1746	3094	0.0	0.57	7.27
Priority Codes	95	317	1038	881	1793	2116	0.0	0.56	7.16
Testing Types	94	359	1068	935	1791	2467	0.0	0.56	10.97
Platform Component Types	93	314	945	863	1679	2794	0.0	0.56	7.1
Platform Component Data	92	319	1052	855	1875	2721	0.0	0.57	6.64
Application Modules	92	563	1292	1160	2113	3514	0.0	0.57	12.56
Requirements	91	563	1431	1336	2433	3419	0.0	0.56	22.88
Test Environments	87	316	905	764	1520	2752	0.0	0.54	6.89
Test Builds	86	570	1167	1004	2029	2792	0.0	0.54	9.94
Test Case Tags	83	317	1039	889	1693	2620	0.0	0.53	6.93
Defect Tracking	82	305	965	869	1667	3117	0.0	0.53	7.03
Allocate Test Case Design	82	560	1023	862	1807	2080	0.0	0.53	8.1
Allocate Test Case Execution	80	443	1084	950	1598	2287	0.0	0.55	9.95
Test Case Design	80	325	1043	898	1772	2987	0.0	0.55	7.77
Test Case Review	80	323	994	849	1791	2628	0.0	0.55	7.67
Execute Test Cases	80	331	1201	933	2164	3472	0.0	0.55	8.36
Test Case Repository	79	557	1415	1368	2261	5453	0.0	0.55	17.99
Import Test Cases	76	573	1049	876	1773	2689	0.0	0.54	8.47
Execution Summary Report	76	563	1513	1463	2329	3876	0.0	0.54	8.93
Execution Detail Report	75	571	2048	1689	3702	4865	0.0	0.54	45.4
Application Progress Report	74	566	1660	1652	2783	3518	0.0	0.54	7.28
Logout	72	563	914	806	1429	2864	0.0	0.54	3.23

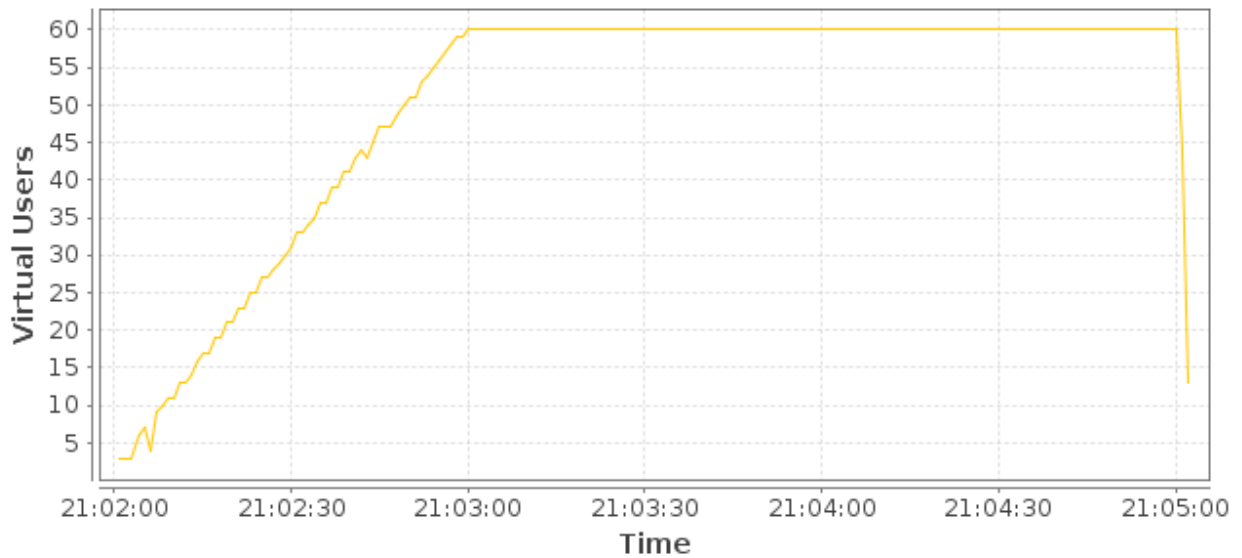
### 8.3 Requests/Second Graph

The following graph shows the hits (requests) per second for the duration of the test.



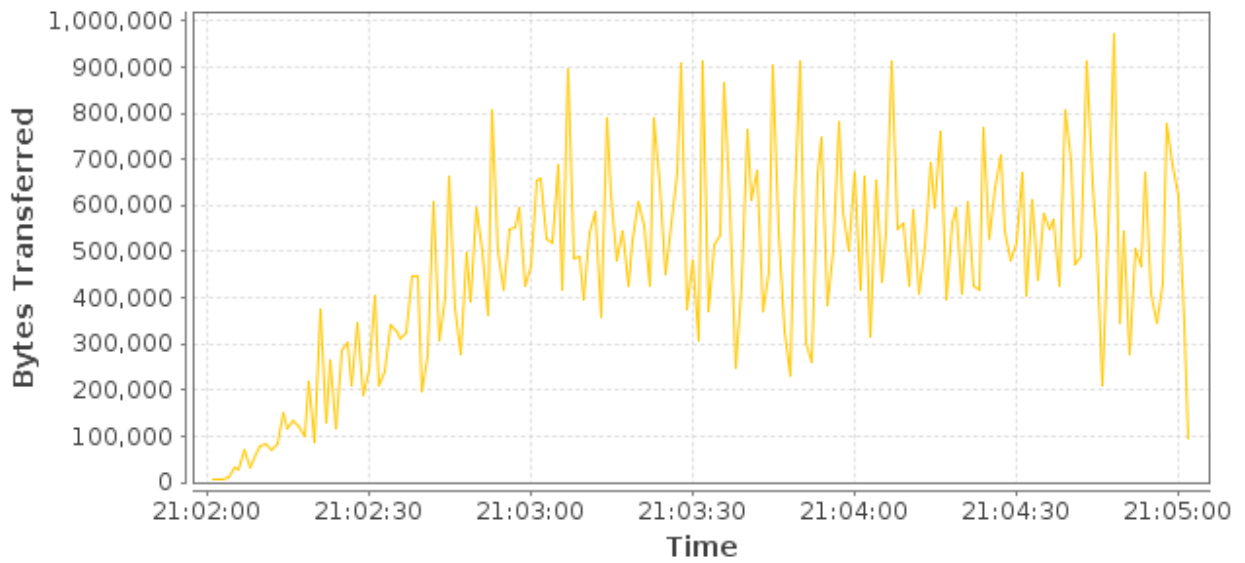
### 8.4 Virtual Users/Second Graph

The following graph shows the virtual users (threads) per second for the duration of the test.



### 8.5 Bytes/Second Graph

The following graph shows the bytes transferred per second for the duration of the test.



### 8.6 Resource Utilization on Application Server qa.brickred.com

The following graph shows the % total CPU used (across all CPUs in the system), the memory (RAM) usage and swap space usage for the duration of the test.





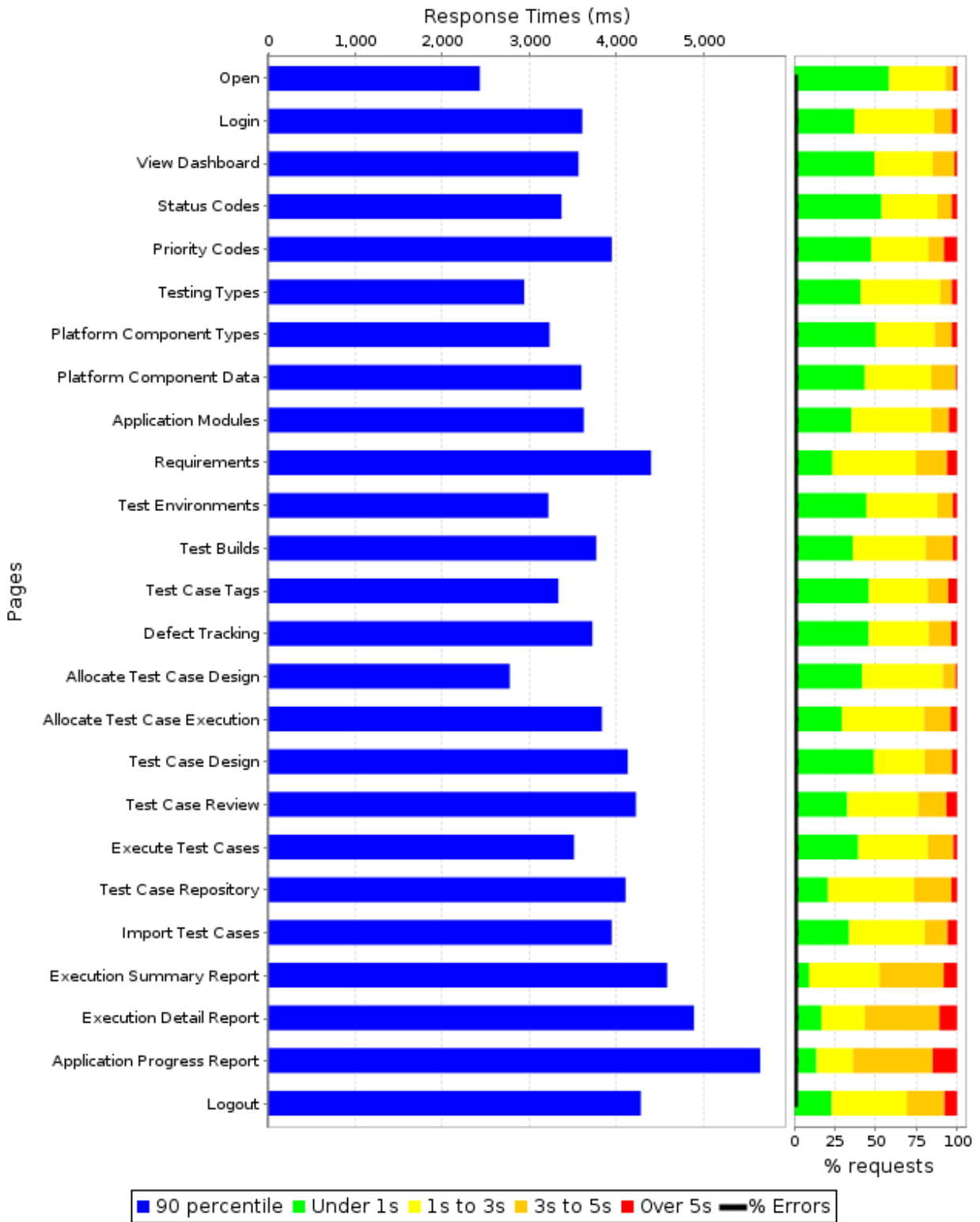
## 9 Execution Results #4, Virtual Users: 100

The cluster-wise aggregate statistics for the test and corresponding resource utilization on monitored servers is as follows.

### 9.1 Cluster: Amazon Cloud, region: us-east-1

#### 9.1.1 Test: TestDroid page visits, Virtual Users: 50

The following graph shows the response time of all the pages and a breakup of percentage requests within different thresholds, followed by the aggregate summary of the requests in the tests grouped by same page label.



### 9.1.1.1 Detailed Metrics

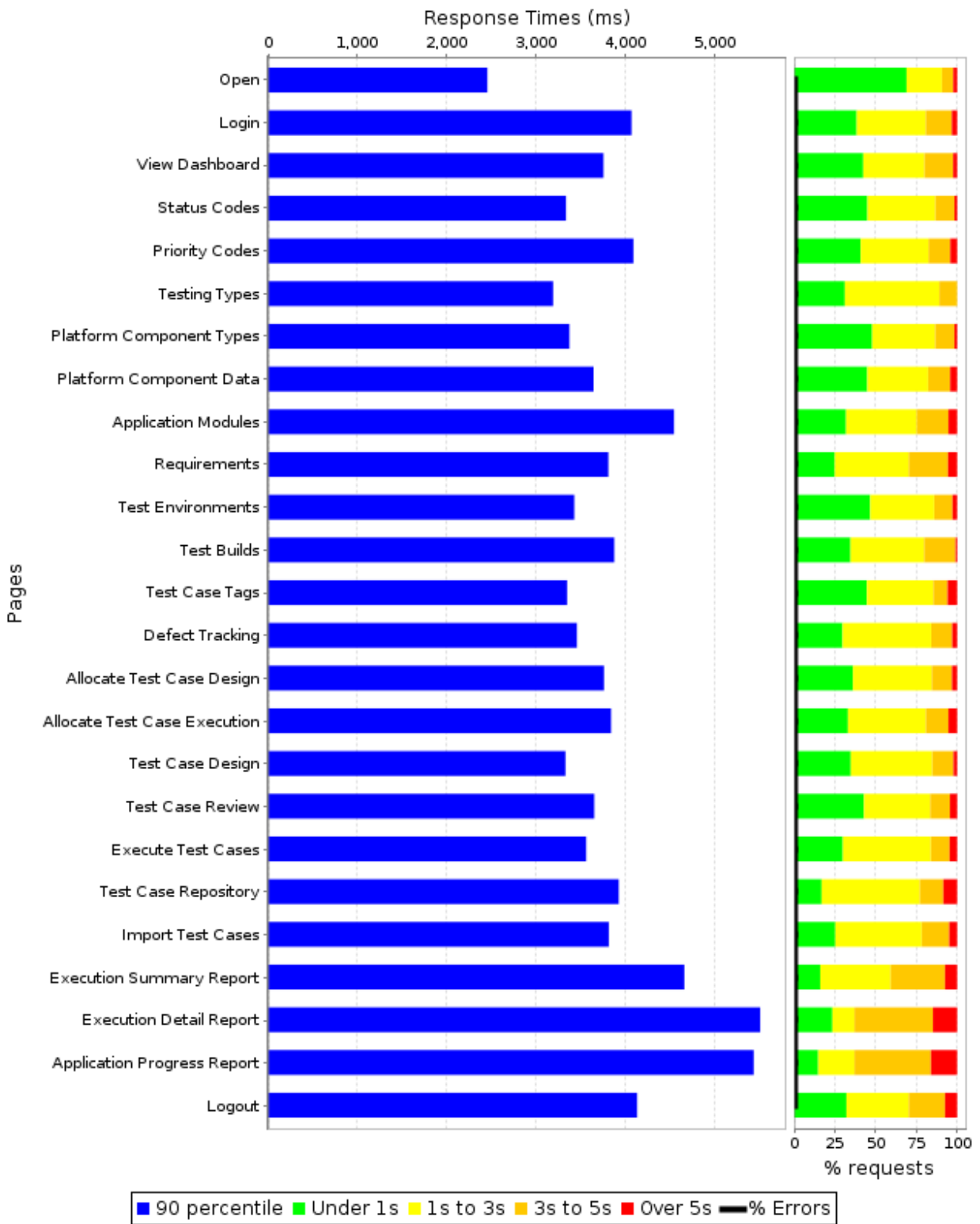
Page Label	# Samples	Response Time (milliseconds)					% Errors	Transactions / second	Bytes / second
		Min	Average	Median	90 <sup>th</sup> Centile	Max			

Open	127	235	1140	695	2433	8587	0.0	0.69	3.76
Login	127	239	1601	1235	3610	6154	0.0	0.7	8.72
View Dashboard	126	264	1605	1022	3566	8364	0.0	0.72	8.85
Status Codes	125	279	1489	877	3371	6902	0.0	0.72	9.25
Priority Codes	125	261	1867	1014	3949	12676	0.0	0.72	9.28
Testing Types	125	286	1591	1198	2943	9030	0.0	0.72	14.04
Platform Component Types	124	265	1607	988	3233	6619	0.0	0.72	9.23
Platform Component Data	120	258	1657	1224	3600	5712	0.0	0.72	8.43
Application Modules	119	475	1787	1273	3627	8838	0.0	0.71	15.96
Requirements	115	469	2314	1956	4400	10316	0.0	0.7	28.65
Test Environments	115	303	1528	1089	3220	6022	0.0	0.7	9.02
Test Builds	114	470	1818	1506	3770	5990	0.0	0.7	12.86
Test Case Tags	111	471	1699	1195	3335	6259	0.0	0.69	9.15
Defect Tracking	109	482	1719	1131	3726	8232	0.0	0.68	9.02
Allocate Test Case Design	103	481	1487	1117	2776	5215	0.0	0.65	10.01
Allocate Test Case Execution	99	468	1806	1224	3835	7637	0.0	0.64	11.78
Test Case Design	96	290	1735	1052	4132	6018	0.0	0.62	8.93
Test Case Review	92	267	2009	1481	4226	9703	0.0	0.59	8.33
Execute Test Cases	89	473	1738	1269	3515	6583	0.0	0.58	9.07
Test Case Repository	87	480	2264	1984	4107	5790	0.0	0.59	19.79
Import Test Cases	86	465	1925	1554	3948	8034	0.0	0.59	9.55
Execution Summary Report	86	502	2979	2866	4585	7750	0.0	0.59	10.0
Execution Detail Report	83	481	3075	3116	4893	10726	0.0	0.58	51.58
Application Progress Report	80	467	3471	3757	5654	10817	0.0	0.56	7.64
Logout	78	465	2367	1853	4282	7381	0.0	0.55	3.29

## 9.2 Cluster: Amazon Cloud, region: us-west-1

### 9.2.1 Test: TestDroid page visits, Virtual Users: 50

The following graph shows the response time of all the pages and a breakup of percentage requests within different thresholds, followed by the aggregate summary of the requests in the tests grouped by same page label.



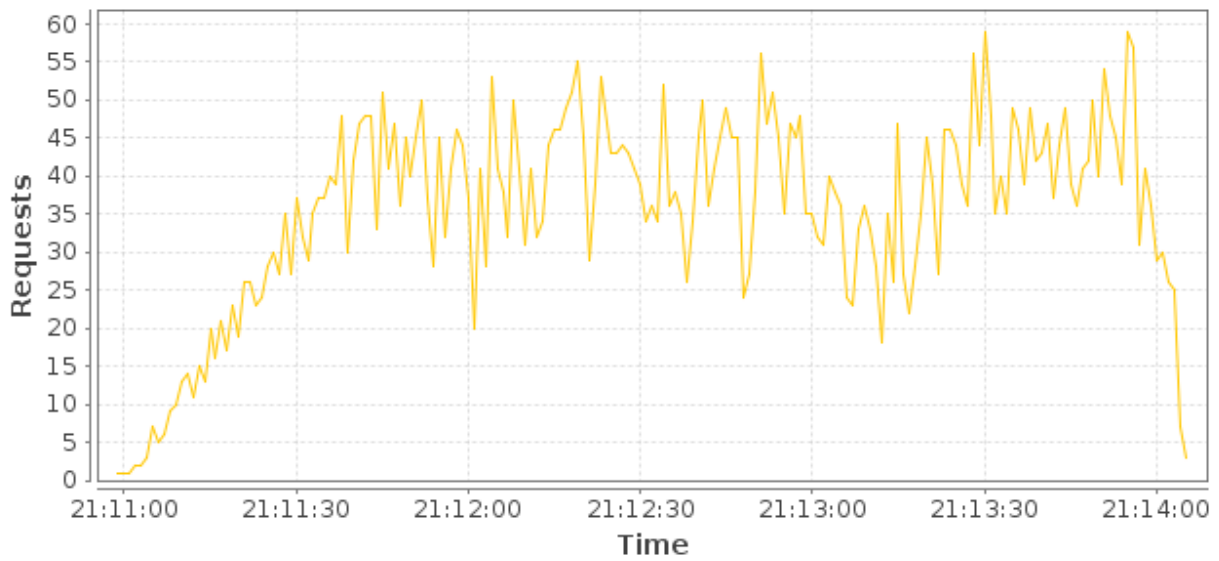
### 9.2.1.1 Detailed Metrics

Page Label	# Samples	Response Time (milliseconds)					% Errors	Transactions / second	Bytes / second
		Min	Average	Median	90 <sup>th</sup> Centile	Max			

Open	129	283	1076	569	2452	9227	0.0	0.71	3.83
Login	125	282	1801	1428	4064	9402	0.0	0.71	8.8
View Dashboard	125	309	1855	1463	3750	6613	0.0	0.71	8.75
Status Codes	120	324	1572	1082	3331	6932	0.0	0.71	9.16
Priority Codes	120	313	1900	1278	4085	9991	0.0	0.71	9.2
Testing Types	119	376	1770	1478	3187	4978	0.0	0.72	14.02
Platform Component Types	119	565	1629	1119	3369	6455	0.0	0.71	9.17
Platform Component Data	118	307	1761	1231	3639	10604	0.0	0.71	8.32
Application Modules	113	571	2124	1572	4539	8633	0.0	0.68	15.25
Requirements	108	568	2312	2330	3805	5952	0.0	0.67	27.66
Test Environments	107	309	1613	1152	3424	6132	0.0	0.66	8.57
Test Builds	104	569	1932	1488	3871	5096	0.0	0.66	12.34
Test Case Tags	103	328	1685	1174	3343	6383	0.0	0.66	8.82
Defect Tracking	101	307	1794	1335	3453	6302	0.0	0.65	8.63
Allocate Test Case Design	97	388	1875	1332	3756	7500	0.0	0.63	9.81
Allocate Test Case Execution	94	571	1949	1495	3835	9931	0.0	0.62	11.32
Test Case Design	92	332	1745	1464	3325	6279	0.0	0.62	8.73
Test Case Review	91	332	1799	1173	3647	10952	0.0	0.61	8.44
Execute Test Cases	87	328	2009	1630	3557	9608	0.0	0.59	9.07
Test Case Repository	83	579	2505	2045	3921	13321	0.0	0.58	19.13
Import Test Cases	83	573	2035	1713	3810	5929	0.0	0.59	9.49
Execution Summary Report	81	566	2795	2643	4654	9562	0.0	0.61	10.18
Execution Detail Report	81	567	3220	3382	5503	7975	0.0	0.6	51.15
Application Progress Report	81	583	3438	3819	5430	6496	0.0	0.6	8.17
Logout	81	561	2338	1592	4126	11691	0.0	0.6	3.57

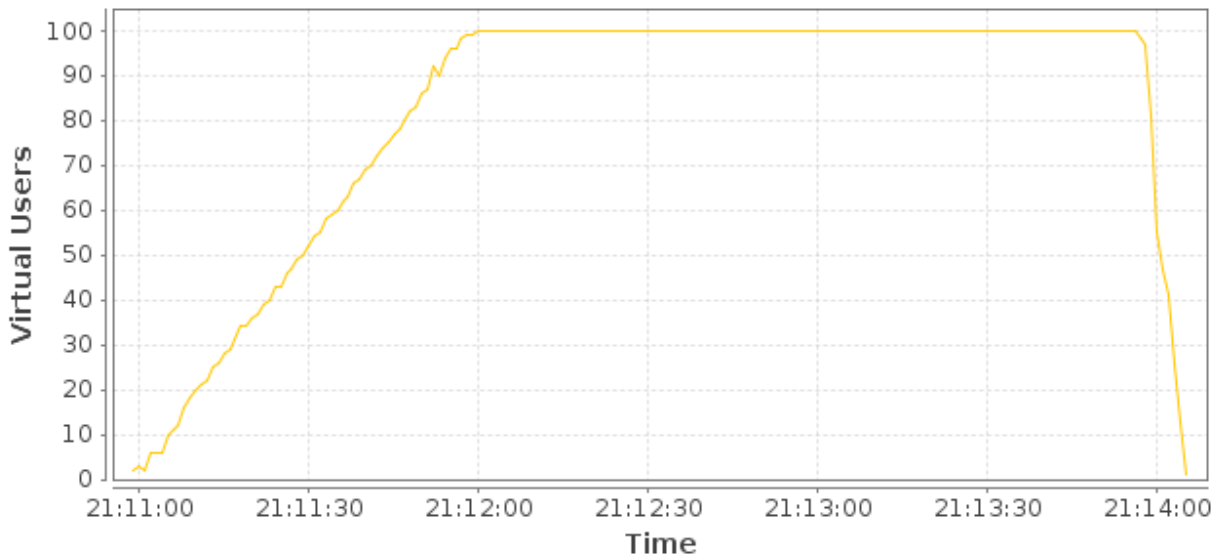
### 9.3 Requests/Second Graph

The following graph shows the hits (requests) per second for the duration of the test.



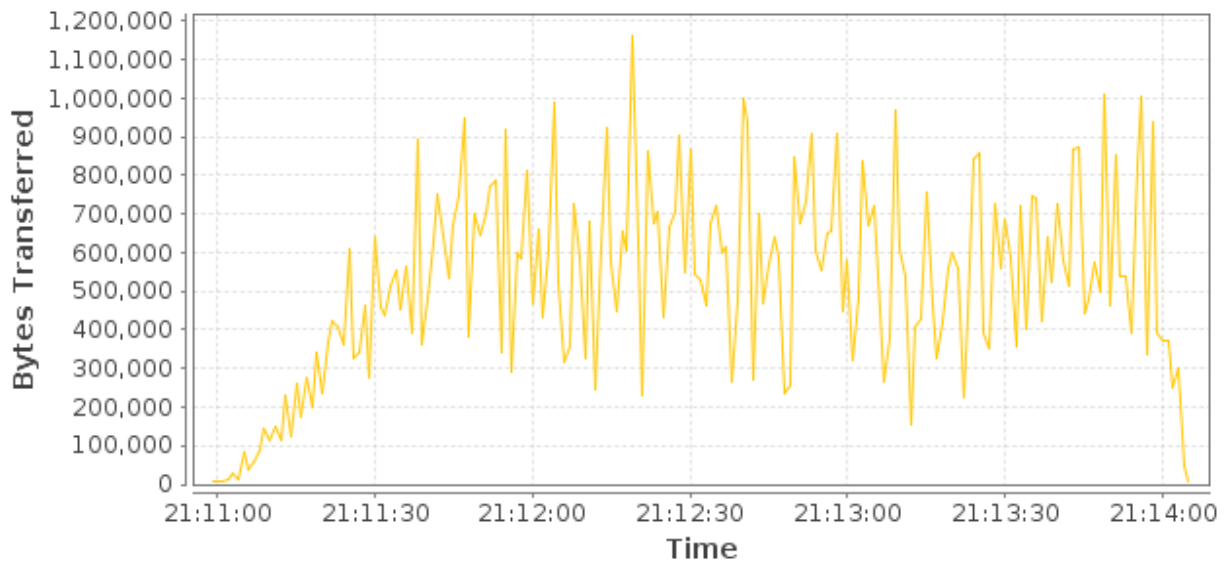
#### 9.4 Virtual Users/Second Graph

The following graph shows the virtual users (threads) per second for the duration of the test.



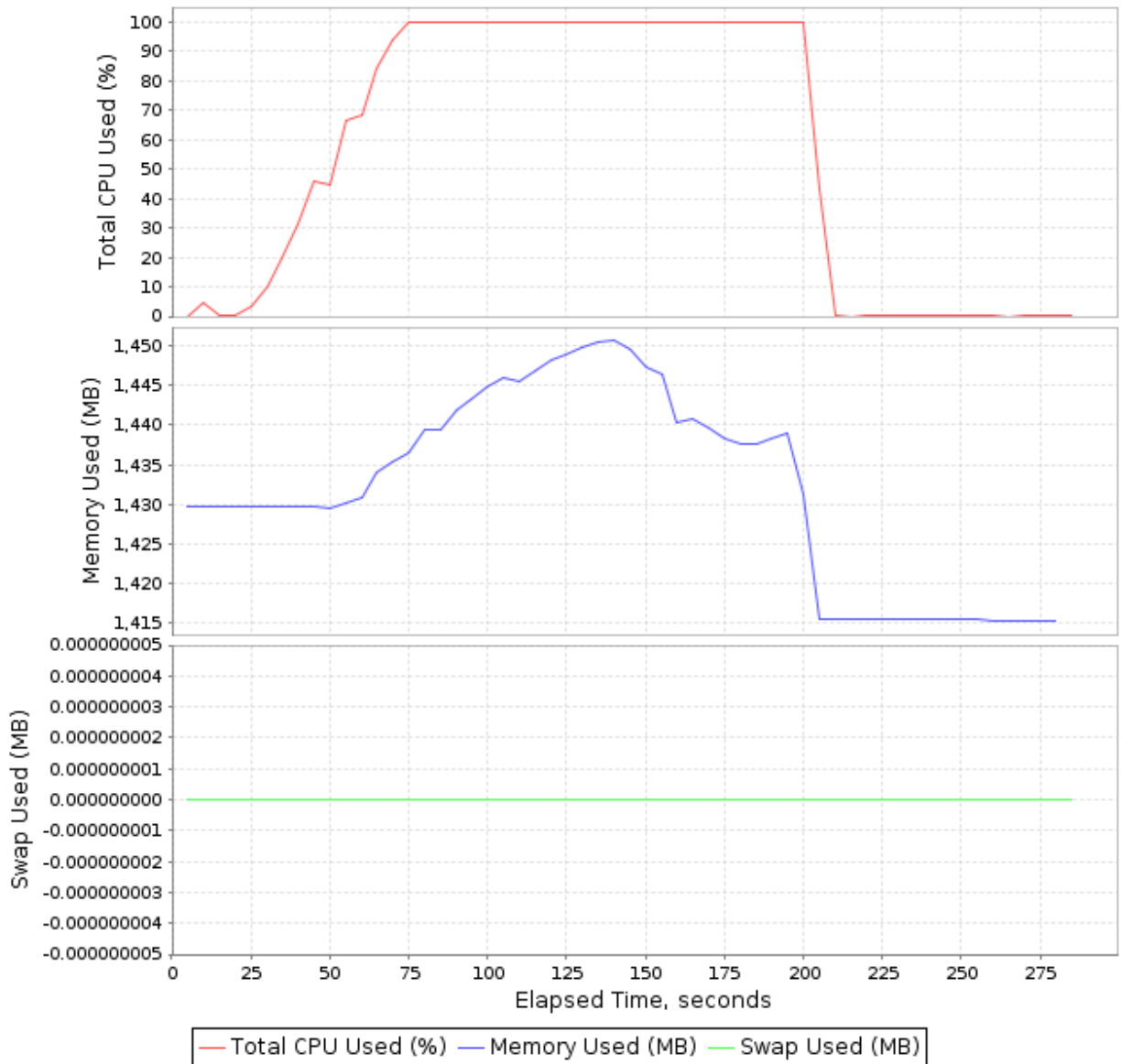
#### 9.5 Bytes/Second Graph

The following graph shows the bytes transferred per second for the duration of the test.



## 9.6 Resource Utilization on Application Server qa.brickred.com

The following graph shows the % total CPU used (across all CPUs in the system), the memory (RAM) usage and swap space usage for the duration of the test.



## 10 Execution Results #5, Virtual Users: 100

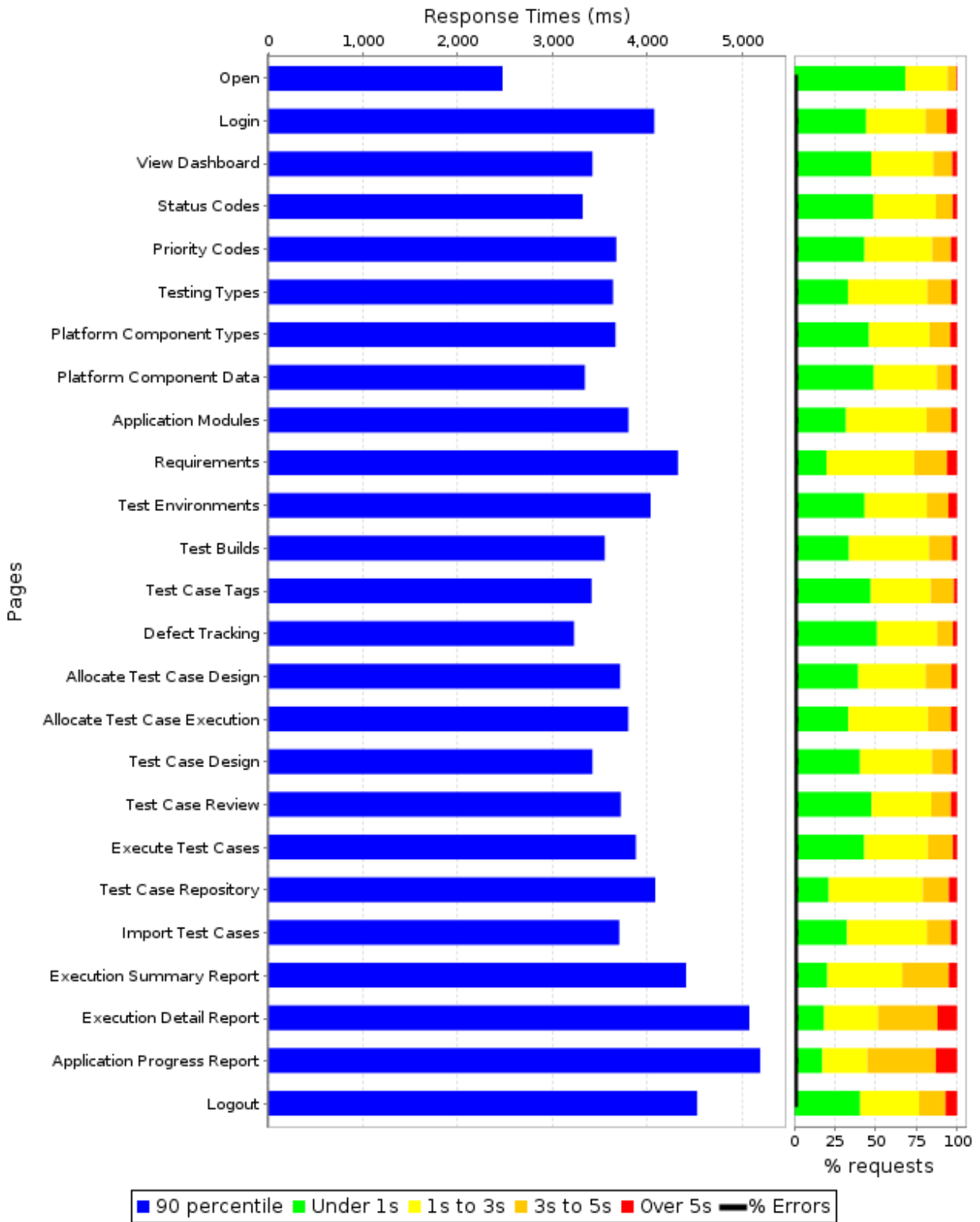
The cluster-wise aggregate statistics for the test is as follows.

### 10.1 Cluster: Amazon Cloud, region: us-east-1

#### 10.1.1 Test: TestDroid page visits, Virtual Users: 50

The following graph shows the response time of all the pages and a breakup of percentage requests within different thresholds, followed by the aggregate summary of the requests in the tests grouped by same page label.





### 10.1.1.1 Detailed Metrics

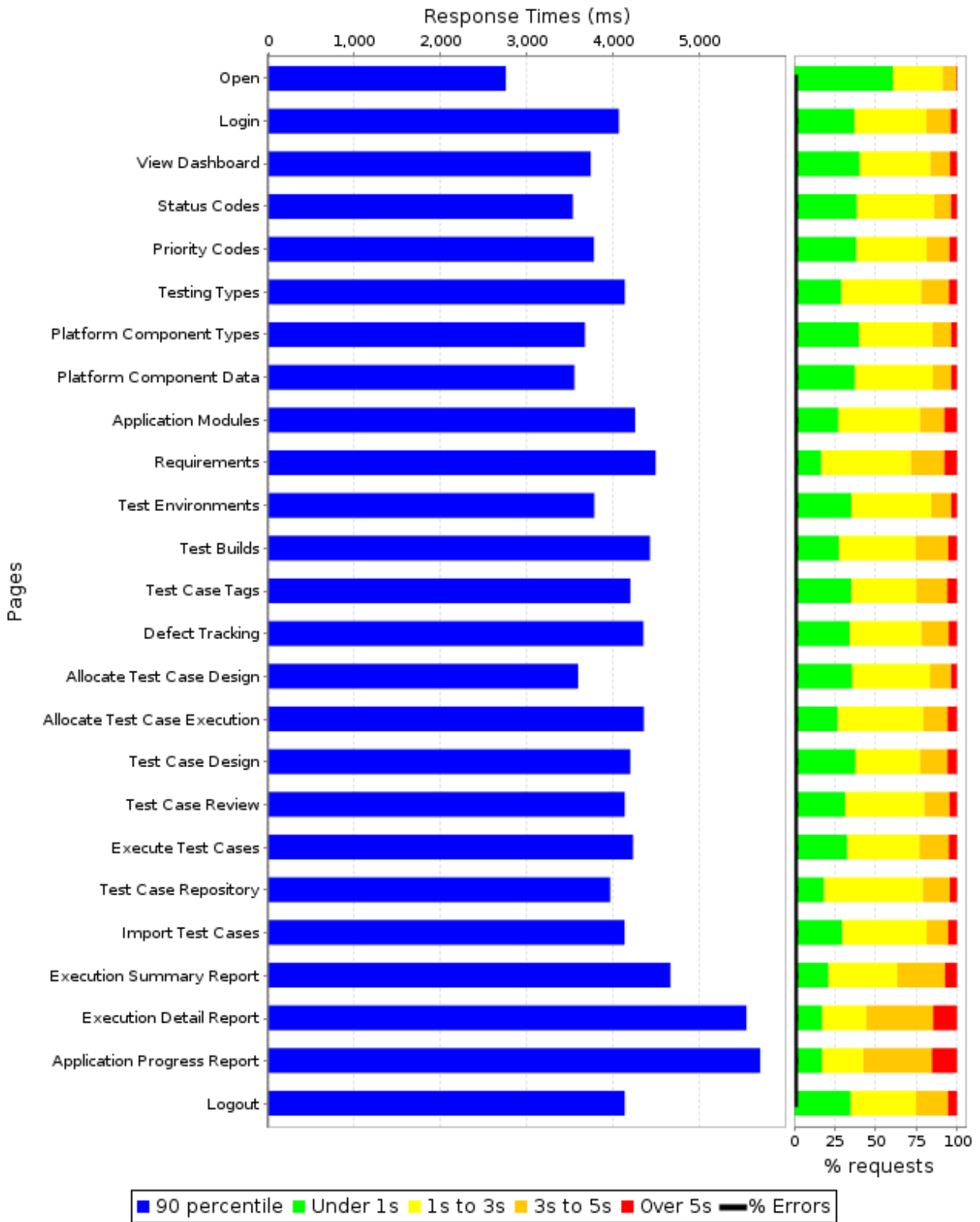
Page Label	# Samples	Response Time (milliseconds)					% Errors	Transactions / second	Bytes / second
		Min	Average	Median	90 <sup>th</sup> Centile	Max			

Open	374	232	988	474	2472	5731	0.0	0.62	3.38
Login	373	236	1806	1183	4072	17530	0.0	0.62	7.73
View Dashboard	370	340	1621	1091	3420	8174	0.0	0.62	7.64
Status Codes	369	257	1583	1047	3317	9989	0.0	0.62	8.0
Priority Codes	366	255	1690	1238	3672	7492	0.0	0.62	8.03
Testing Types	366	286	1827	1372	3637	9169	0.0	0.62	12.14
Platform Component Types	361	256	1696	1131	3663	9290	0.0	0.61	7.89
Platform Component Data	360	259	1595	1036	3340	7238	0.0	0.62	7.21
Application Modules	358	466	1829	1369	3799	8338	0.0	0.62	13.7
Requirements	357	461	2370	2069	4322	10559	0.0	0.62	25.67
Test Environments	356	260	1856	1303	4033	10478	0.0	0.61	7.99
Test Builds	353	363	1857	1481	3550	8031	0.0	0.61	11.47
Test Case Tags	351	268	1633	1045	3411	10224	0.0	0.61	8.08
Defect Tracking	350	256	1534	981	3226	10668	0.0	0.61	8.09
Allocate Test Case Design	348	281	1775	1219	3712	10610	0.0	0.61	9.3
Allocate Test Case Execution	346	300	1833	1273	3797	8616	0.0	0.61	10.95
Test Case Design	344	278	1681	1185	3420	9904	0.0	0.6	8.56
Test Case Review	341	264	1687	1070	3719	8594	0.0	0.6	8.4
Execute Test Cases	339	268	1727	1207	3878	7365	0.0	0.6	9.22
Test Case Repository	338	471	2152	1715	4082	13318	0.0	0.6	19.7
Import Test Cases	336	285	1870	1356	3703	13928	0.0	0.6	9.67
Execution Summary Report	333	463	2512	2464	4407	9621	0.0	0.6	10.04
Execution Detail Report	332	464	2948	2940	5074	11171	0.0	0.59	51.37
Application Progress Report	329	464	3047	3228	5189	10917	0.0	0.59	8.08
Logout	326	466	2047	1346	4524	9774	0.0	0.59	3.49

## 10.2 Cluster: Amazon Cloud, region: us-west-1

### 10.2.1 Test: TestDroid page visits, Virtual Users: 50

The following graph shows the response time of all the pages and a breakup of percentage requests within different thresholds, followed by the aggregate summary of the requests in the tests grouped by same page label.



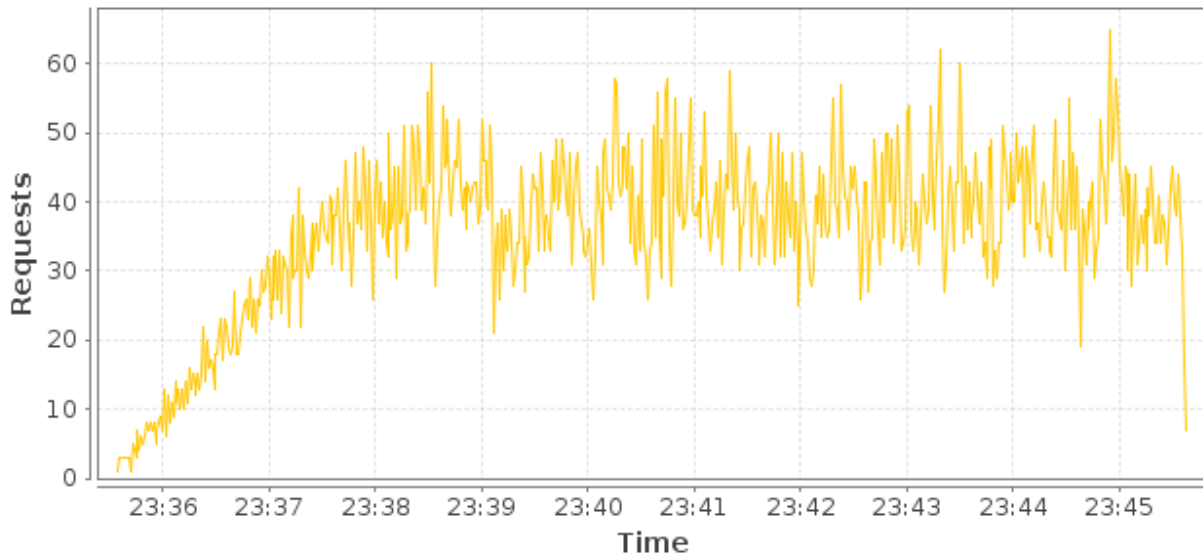
### 10.2.1.1 Detailed Metrics

Page Label	# Samples	Response Time (milliseconds)					% Errors	Transactions / second	Bytes / second
		Min	Average	Median	90 <sup>th</sup> Centile	Max			

Open	350	279	1151	590	2754	7028	0.0	0.59	3.17
Login	350	281	1800	1457	4063	7278	0.0	0.59	7.25
View Dashboard	347	323	1784	1197	3737	9177	0.0	0.59	7.18
Status Codes	345	306	1767	1344	3530	8330	0.0	0.58	7.51
Priority Codes	342	306	1855	1257	3774	10869	0.0	0.58	7.48
Testing Types	341	329	2057	1519	4132	9817	0.0	0.58	11.34
Platform Component Types	337	304	1789	1280	3670	8337	0.0	0.58	7.46
Platform Component Data	337	305	1745	1269	3548	8175	0.0	0.58	6.77
Application Modules	334	561	2191	1583	4252	10464	0.0	0.58	12.89
Requirements	334	560	2607	2231	4489	11112	0.0	0.58	24.02
Test Environments	333	309	1828	1313	3778	7243	0.0	0.58	7.54
Test Builds	333	561	2137	1497	4423	9847	0.0	0.58	10.88
Test Case Tags	332	327	2116	1543	4196	11358	0.0	0.58	7.68
Defect Tracking	328	303	2058	1613	4347	9534	0.0	0.57	7.56
Allocate Test Case Design	325	334	1872	1461	3591	10148	0.0	0.57	8.7
Allocate Test Case Execution	323	565	2150	1752	4352	18859	0.0	0.57	10.23
Test Case Design	321	330	1997	1362	4195	10555	0.0	0.57	8.03
Test Case Review	319	330	1972	1532	4131	10154	0.0	0.56	7.86
Execute Test Cases	315	341	2080	1644	4227	8750	0.0	0.56	8.65
Test Case Repository	314	561	2228	1959	3962	11107	0.0	0.56	18.45
Import Test Cases	311	339	2012	1453	4129	12240	0.0	0.56	9.08
Execution Summary Report	311	563	2633	2588	4660	10884	0.0	0.56	9.45
Execution Detail Report	307	561	3138	3242	5541	9407	0.0	0.55	47.66
Application Progress Report	304	574	3290	3420	5700	9888	0.0	0.55	7.53
Logout	302	562	2119	1605	4131	10068	0.0	0.55	3.24

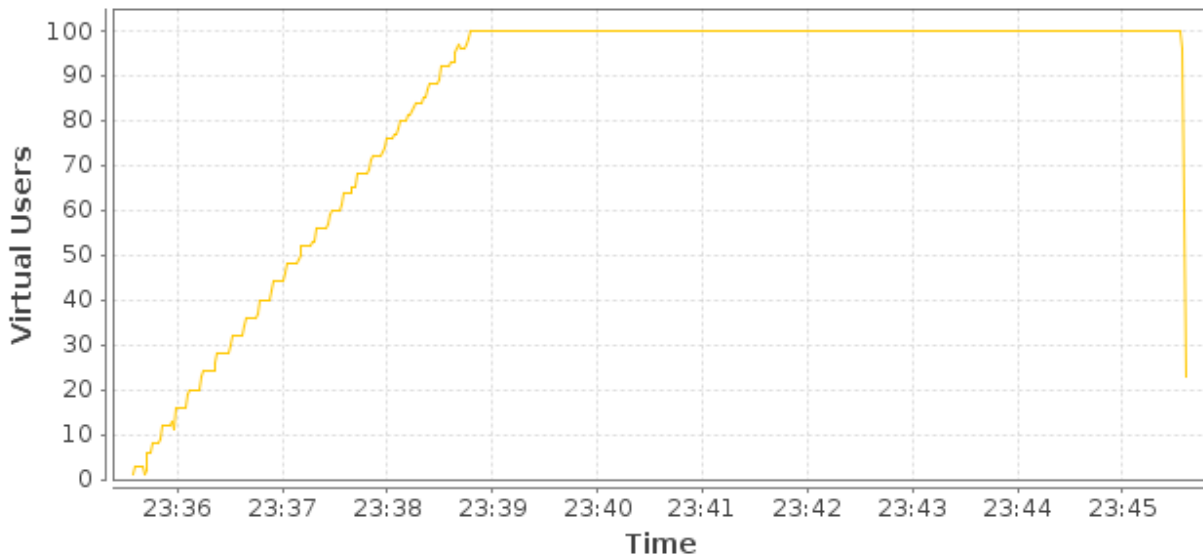
### 10.3 Requests/Second Graph

The following graph shows the hits (requests) per second for the duration of the test.



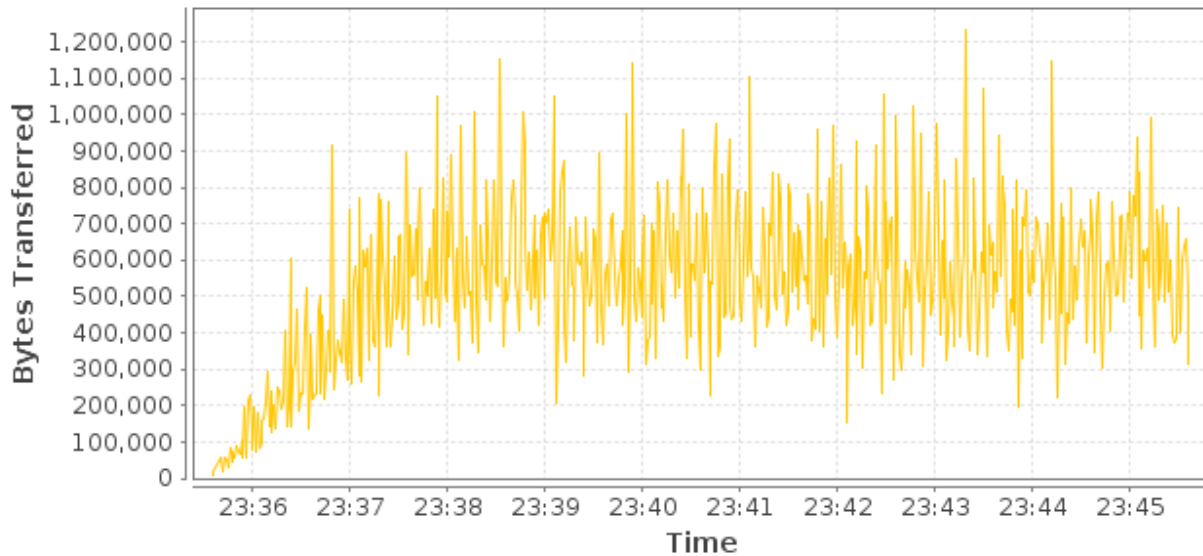
### 10.4 Virtual Users/Second Graph

The following graph shows the virtual users (threads) per second for the duration of the test.



### 10.5 Bytes/Second Graph

The following graph shows the bytes transferred per second for the duration of the test.



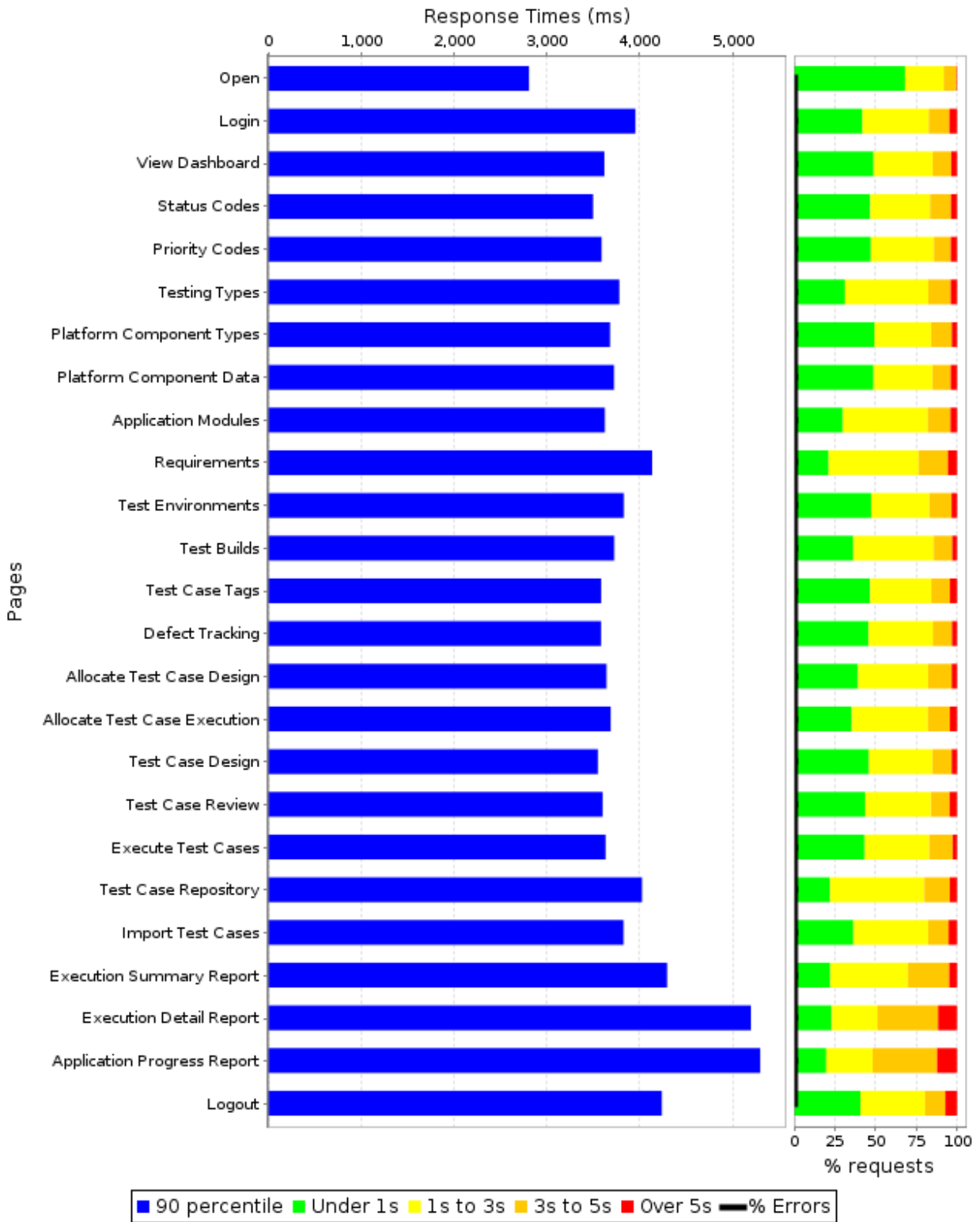
## 11 Execution Results #6, Virtual Users: 100

The cluster-wise aggregate statistics for the test is as follows.

### 11.1 Cluster: Amazon Cloud, region: us-east-1

#### 11.1.1 Test: TestDroid page visits, Virtual Users: 50

The following graph shows the response time of all the pages and a breakup of percentage requests within different thresholds, followed by the aggregate summary of the requests in the tests grouped by same page label.



### 11.1.1.1 Detailed Metrics

Page Label	# Samples	Response Time (milliseconds)					% Errors	Transactions / second	Bytes / second
		Min	Average	Median	90 <sup>th</sup> Centile	Max			

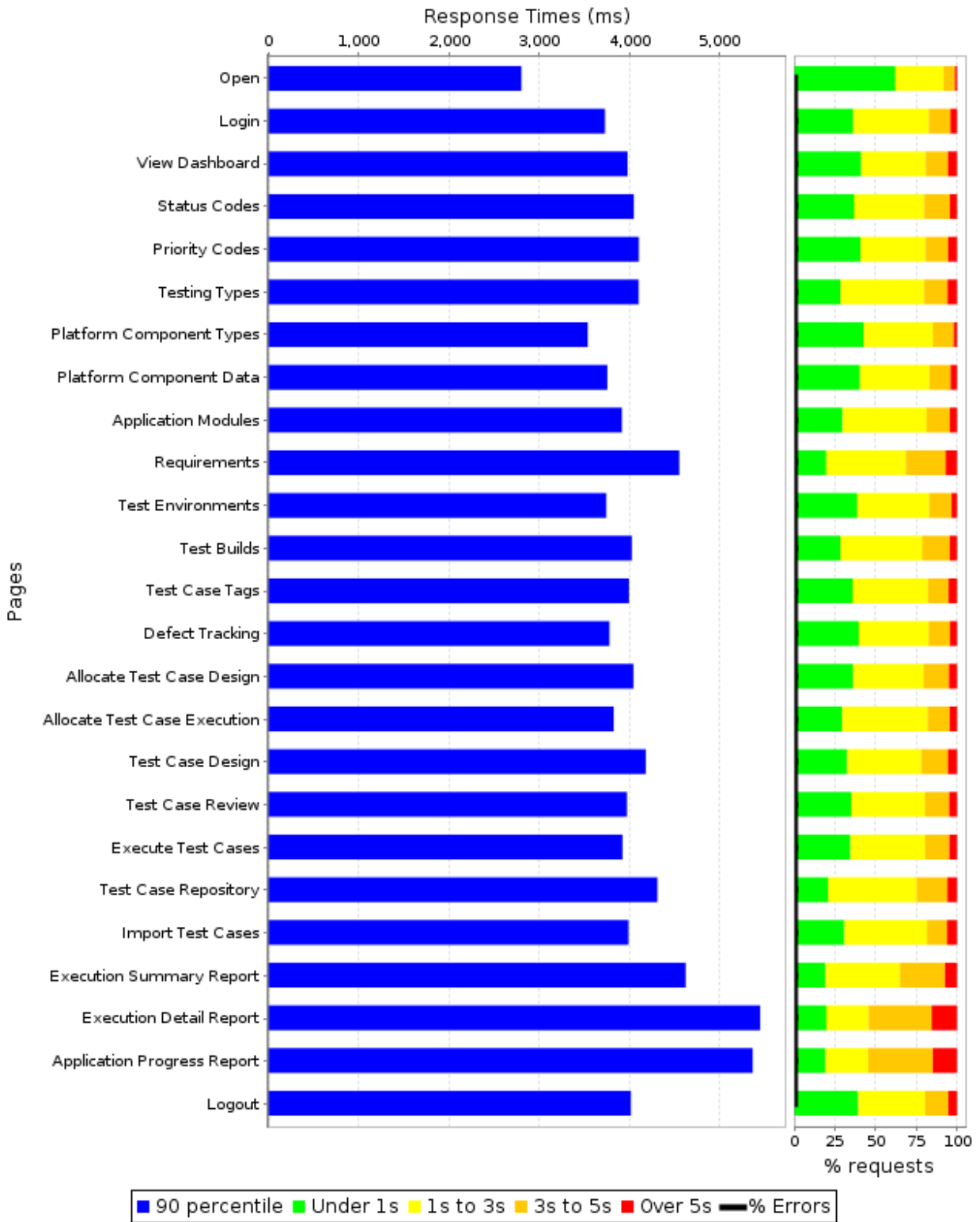
Open	726	231	1052	480	2808	6070	0.0	0.6	3.27
Login	725	235	1721	1217	3953	10675	0.0	0.61	7.49
View Dashboard	723	262	1621	1037	3619	9525	0.0	0.6	7.42
Status Codes	721	254	1677	1108	3497	8553	0.0	0.61	7.77
Priority Codes	720	261	1690	1211	3589	9073	0.0	0.61	7.8
Testing Types	719	346	1854	1341	3780	10264	0.0	0.61	11.8
Platform Component Types	717	259	1661	1015	3680	9318	0.0	0.6	7.76
Platform Component Data	715	254	1598	1017	3723	8695	0.0	0.6	7.07
Application Modules	715	386	1866	1377	3624	8234	0.0	0.6	13.4
Requirements	710	461	2236	1963	4133	9135	0.0	0.6	24.99
Test Environments	709	263	1697	1097	3828	8140	0.0	0.6	7.82
Test Builds	706	300	1776	1246	3725	9047	0.0	0.6	11.21
Test Case Tags	705	262	1712	1089	3584	8608	0.0	0.6	7.93
Defect Tracking	704	266	1666	1178	3583	8055	0.0	0.6	7.89
Allocate Test Case Design	702	334	1724	1202	3642	8279	0.0	0.6	9.11
Allocate Test Case Execution	701	470	1841	1310	3687	8409	0.0	0.6	10.75
Test Case Design	700	273	1670	1131	3549	8553	0.0	0.6	8.48
Test Case Review	700	268	1740	1205	3600	8222	0.0	0.6	8.34
Execute Test Cases	698	273	1690	1208	3632	8548	0.0	0.6	9.16
Test Case Repository	694	465	2107	1750	4024	9310	0.0	0.6	19.4
Import Test Cases	691	307	1847	1336	3825	8934	0.0	0.6	9.53
Execution Summary Report	688	466	2381	2346	4294	8052	0.0	0.59	9.96
Execution Detail Report	686	465	2898	2933	5196	8772	0.0	0.59	50.91
Application Progress Report	685	465	2997	3073	5296	10673	0.0	0.59	8.13
Logout	681	462	1902	1272	4237	9083	0.0	0.59	3.51

## 11.2 Cluster: Amazon Cloud, region: us-west-1

### 11.2.1 Test: TestDroid page visits, Virtual Users: 50

The following graph shows the response time of all the pages and a breakup of percentage requests within different thresholds, followed by the aggregate summary of the requests in the tests grouped by same page label.





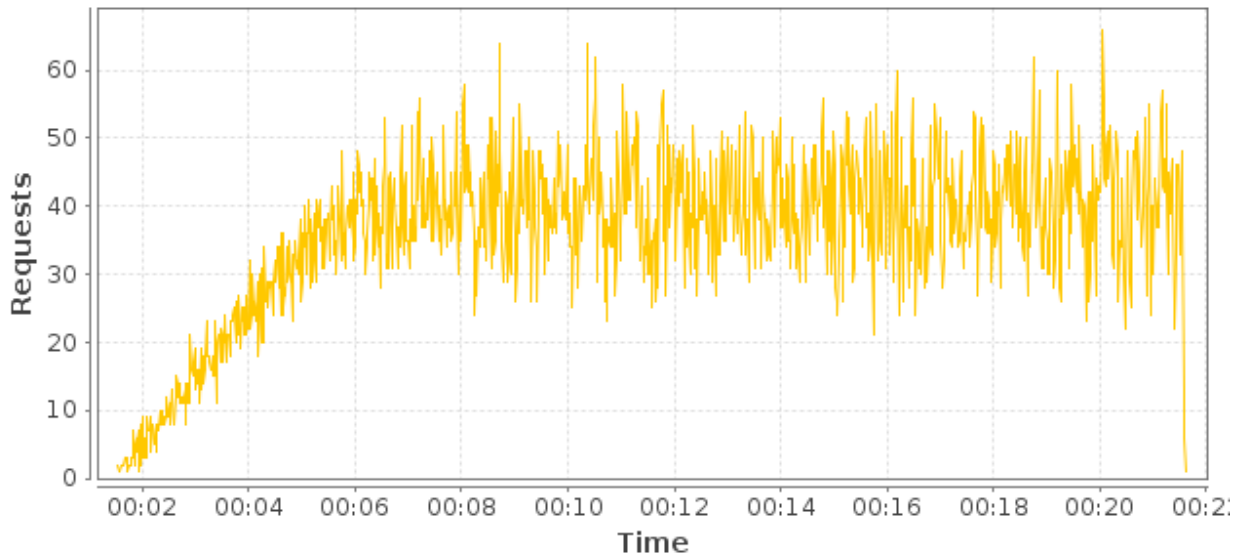
### 11.2.1.1 Detailed Metrics

Page Label	# Samples	Response Time (milliseconds)					% Errors	Transactions / second	Bytes / second
		Min	Average	Median	90 <sup>th</sup> Centile	Max			

Open	683	279	1150	585	2804	7704	0.0	0.57	3.08
Login	682	282	1793	1453	3729	9697	0.0	0.57	7.05
View Dashboard	679	313	1863	1249	3979	8685	0.0	0.57	6.98
Status Codes	678	309	1892	1375	4048	7722	0.0	0.57	7.29
Priority Codes	677	304	1857	1201	4104	8228	0.0	0.57	7.36
Testing Types	677	333	2030	1510	4102	10881	0.0	0.57	11.09
Platform Component Types	675	308	1694	1181	3538	8248	0.0	0.57	7.31
Platform Component Data	673	299	1817	1315	3755	9643	0.0	0.57	6.65
Application Modules	673	431	1973	1511	3916	7991	0.0	0.57	12.62
Requirements	670	560	2546	2317	4552	10761	0.0	0.57	23.57
Test Environments	669	314	1805	1321	3743	11558	0.0	0.57	7.39
Test Builds	669	354	2015	1482	4026	10710	0.0	0.57	10.65
Test Case Tags	668	315	1904	1469	3994	8853	0.0	0.57	7.54
Defect Tracking	665	308	1829	1257	3778	9953	0.0	0.57	7.51
Allocate Test Case Design	664	322	1968	1396	4044	9256	0.0	0.57	8.68
Allocate Test Case Execution	661	352	1986	1537	3825	10268	0.0	0.57	10.18
Test Case Design	659	316	2040	1528	4181	11636	0.0	0.57	8.02
Test Case Review	658	322	1914	1413	3972	9712	0.0	0.57	7.9
Execute Test Cases	656	314	1935	1427	3923	10668	0.0	0.57	8.65
Test Case Repository	650	562	2282	1945	4309	7590	0.0	0.56	18.43
Import Test Cases	649	321	2013	1575	3989	11706	0.0	0.56	9.04
Execution Summary Report	648	560	2597	2483	4622	8464	0.0	0.56	9.45
Execution Detail Report	641	563	3154	3249	5447	10137	0.0	0.56	47.67
Application Progress Report	638	565	3158	3387	5364	10567	0.0	0.55	7.6
Logout	634	558	1936	1421	4016	8753	0.0	0.55	3.28

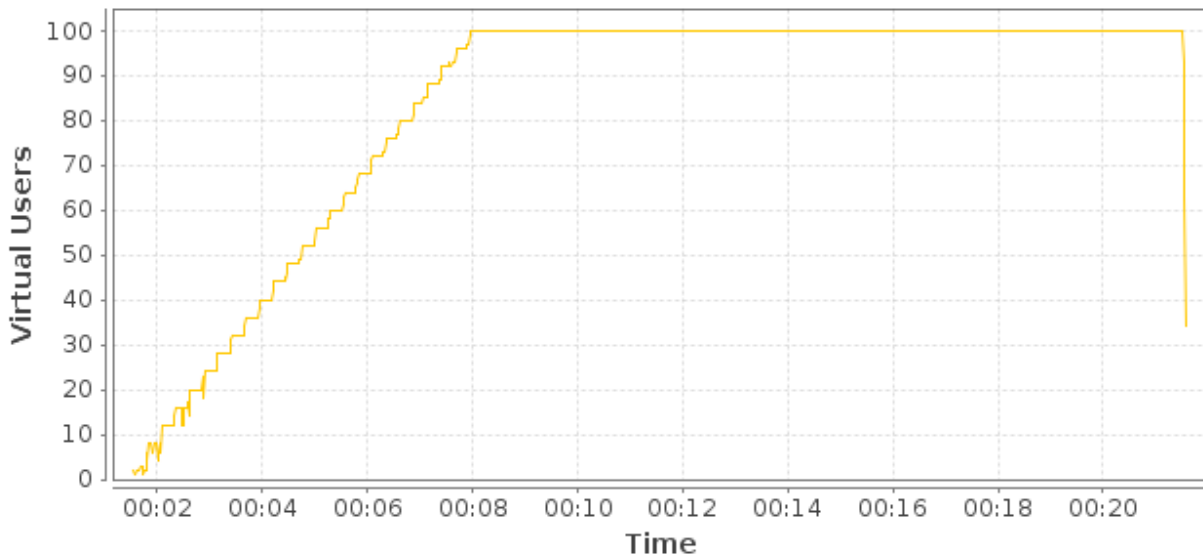
### 11.3 Requests/Second Graph

The following graph shows the hits (requests) per second for the duration of the test.



### 11.4 Virtual Users/Second Graph

The following graph shows the virtual users (threads) per second for the duration of the test.



### 11.5 Bytes/Second Graph

The following graph shows the bytes transferred per second for the duration of the test.

