3nodesN4Jdown - Jan 24, 2025 (#14)

Open in Postman

Postman collection: BioConnect Local

Report exported on: Jan 25, 2025, 1:08:28 (GMT+1)

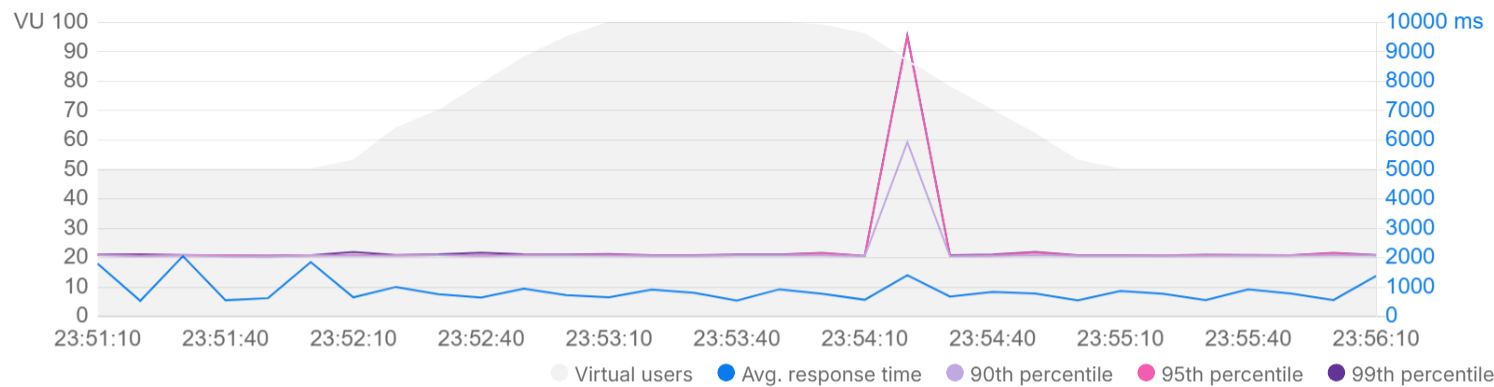## Test setup

Virtual users	Start time	Load profile
100 VU	Jan 24, 23:51:07 (GMT+1)	Peak

Duration	End time	Environment
5 minutes	Jan 24, 23:56:14 (GMT+1)	-

1. Summary

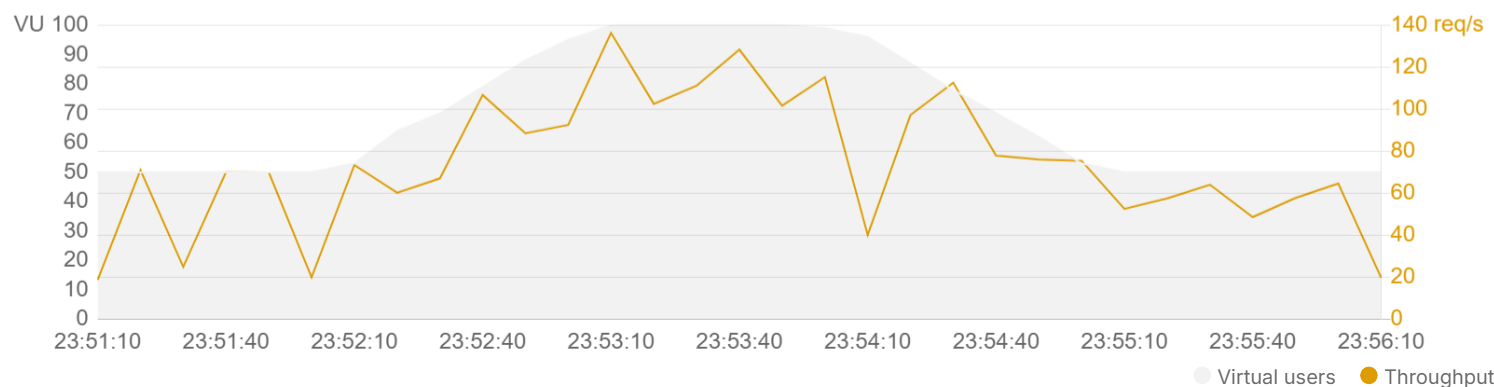| Total requests sent	Throughput	Average response time	Error rate
23,047	74.98 requests/second	796 ms	35.98 %

1.1 Response time

Response time trends during the test duration.

1.2 Throughput

Rate of requests sent per second during the test duration.

1.3 Requests with slowest response times

Top 5 slowest requests based on their average response times.

Request	Resp. time (Avg ms)	90th (ms)	95th (ms)	99th (ms)	Min (ms)	Max (ms)
GET Shortest Path {{localhost}}/api/diseaseGraph/shortestPath/{{Disease: Joubert syndrome 39}}/{{Disease: Deafness, autosomal recessive, 1B}}	2,262	2,119	2,170	9,548	1,988	9,562
GET Disease linked to Drug {{localhost}}/api/diseaseGraph/diseaseByDrug/{{Aspirin ID}}	2,115	2,086	2,102	2,190	1,988	9,554
GET Drug target similar protein {{localhost}}/api/drugGraph/targetSimilarProtein/{{hemoglobin subunit beta}}	2,114	2,099	2,140	2,185	1,989	9,552
GET Get a Disease Node {{localhost}}/api/diseaseGraph/{{Disease: Deafness, autosomal recessive, 1B}}	2,114	2,091	2,113	2,197	1,983	9,562
GET Drug with opposite effects {{localhost}}/api/drugGraph/oppositeEffectsOnProtein/{{Aspirin ID}}	2,090	2,091	2,114	2,182	1,976	9,551

1.4 Requests with most errors

Top 5 requests with the most errors, along with the most frequently occurring errors for each request.

Request	Total error count	Error 1	Error 2	Other errors
GET Drug Node by id {{localhost}}/api/drugGraph/{{Aspirin ID}}	1,441	503 Service Unavailable (1441)	-	0
GET Drug target similar protein {{localhost}}/api/drugGraph/targetSimilarProtein/{{hemoglobin subunit beta}}	1,392	503 Service Unavailable (1392)	-	0
GET Drug with opposite effects {{localhost}}/api/drugGraph/oppositeEffectsOnProtein/{{Aspirin ID}}	1,387	503 Service Unavailable (1387)	-	0
GET Get a Disease Node {{localhost}}/api/diseaseGraph/{{Disease: Deafness, autosomal recessive, 1B}}	1,363	503 Service Unavailable (1363)	-	0
GET Disease linked to Drug {{localhost}}/api/diseaseGraph/diseaseByDrug/{{Aspirin ID}}	1,363	503 Service Unavailable (1363)	-	0

2. Metrics for each request

The requests are shown in the order they were sent by virtual users.

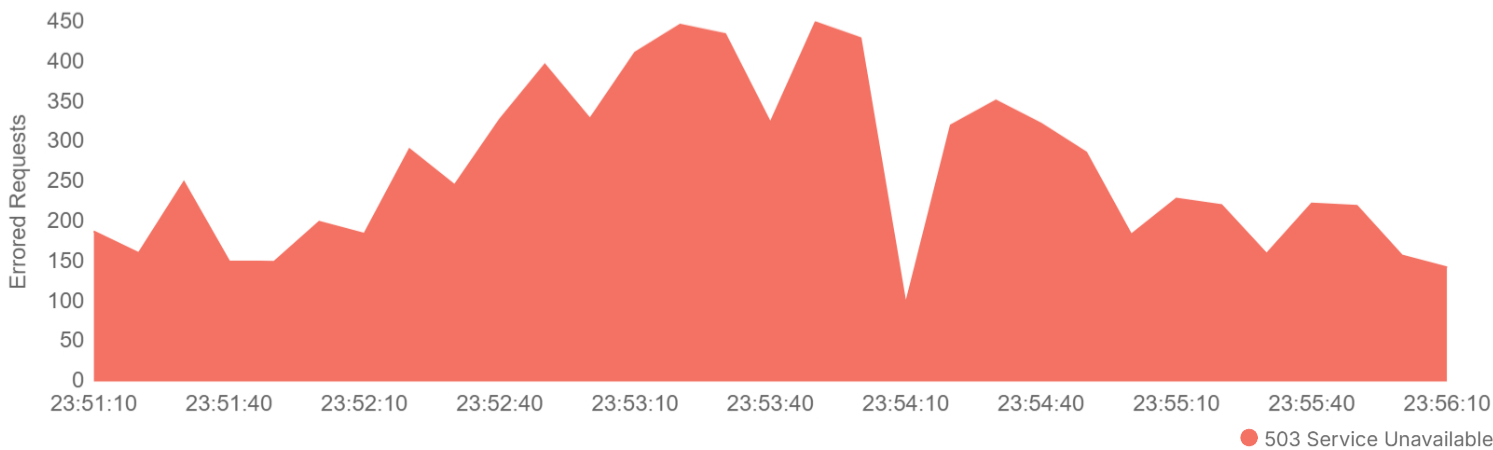| Request	Total requests	Requests/s	Min (ms)	Avg (ms)	90th (ms)	Max (ms)	Error %
GET Drug Node by id {{localhost}}/api/drugGraph/{{Aspirin ID}}	1,441	4.69	14	1,304	1,932	9,395	100
GET Drug target similar protein {{localhost}}/api/drugGraph/targetSimilarProtein/{{hemo globin subunit beta}}	1,392	4.53	1,989	2,114	2,099	9,552	100
GET Drug with opposite effects {{localhost}}/api/drugGraph/oppositeEffectsOnProtein/{{ Aspirin ID}}	1,387	4.51	1,976	2,090	2,091	9,551	100

GET Get a Disease Node {{localhost}}/api/diseaseGraph/{{Disease: Deafness, autosomal recessive, 1B}}	1,363	4.43	1,983	2,114	2,091	9,562	100
GET Disease linked to Drug {{localhost}}/api/diseaseGraph/diseaseByDrug/{{Aspirin ID}}	1,363	4.43	1,988	2,115	2,086	9,554	100
GET Shortest Path {{localhost}}/api/diseaseGraph/shortestPath/{{Disease: Joubert syndrome 39}}/{{Disease: Deafness, autosomal recessive, 1B}}	1,346	4.38	1,988	2,262	2,119	9,562	100
GET Protein Search {{localhost}}/api/proteinDoc/{{hemoglobin subunit beta}}	1,343	4.37	11	39	63	296	0
GET Publication Analysis Protein {{localhost}}/api/proteinDoc/trend-analysis/{{Lipid Metabolism}}	1,342	4.37	10	24	35	266	0
GET Pathways Recurrence {{localhost}}/api/proteinDoc/pathway-recurrence/ATGT	1,342	4.37	102	757	1,412	1,880	0
GET getProteinsByPathwayAndLocation {{localhost}}/api/proteinDoc/getProteinsByPathwayAndLocation?pathway={{Lipid Metabolism}}&subcellularLocation={{Microsome Membrane}}	1,341	4.36	8	14	19	37	0
GET Expired Patents {{localhost}}/api/drugDoc/expired-patents/{{Cat: Anticoagulants}}	1,341	4.36	7	16	20	255	0
GET Drug Search By ID or Name {{localhost}}/api/drugDoc/{{Aspirin ID}}	1,341	4.36	8	16	23	502	0
GET Publication Analysis for category {{localhost}}/api/drugDoc/trend-analysis/{{Cat:Analgesics}}	1,341	4.36	10	24	34	390	0
GET getAllUsers {{localhost}}/admin/users	1,341	4.36	56	244	531	1,315	0

GET getUserByUsername {{localhost}}/admin/users/test_user1	1,341	4.36	7	25	35	281	0
GET getAllComments {{localhost}}/admin/users/comments	1,341	4.36	49	170	339	809	0
GET getMyComments {{localhost}}/profile/my_comments	1,341	4.36	12	31	48	516	0

3. Errors

3.1 Error distribution over time

Top 5 error classes observed during the test duration.

● 503 Service Unavailable

3.2 Error distribution for requests

Errored requests grouped by error class, along with the error count for each class.

Error class	Total counts
503 Service Unavailable	8292
GET Drug Node by id	1,441
GET Drug target similar protein	1,392
GET Drug with opposite effects	1,387
GET Get a Disease Node	1,363
GET Disease linked to Drug	1,363
GET Shortest Path	1,346

Testing API performance on Postman

Postman enables you to simulate user traffic and observe how your API behaves under load. It also helps you identify any issues or bottlenecks that affect performance.

Learn more about testing API performance.