Performance Testing Report – Execution Summary

1. Planning

Tools Used:

- k6 (Load Testing)

- InfluxDB v1 (http://localhost:8086)

- Grafana (Metrics Dashboard)

Scenario Details:

- **Script:** get_patient_test.js

- **Execution Mode:** Local

- **VUs:** 10

- **Duration:** 1 minute + 30s graceful stop

- **API Base:**
- https://dev-pm.centralus.cloudapp.azure.com **and** https://qa-pm.centralus.cloudapp.azure.com **and** https://dev-pm.centralus.cloudapp.azure.com

2. Testing

Execution Warnings:

- Multiple request timeouts – especially during /product/getList and other authenticated requests.

- No script iterations fully finished – test duration was too short for full loops due to high latency.

Test Results:

Metric	Value
Total HTTP Requests	101
Checks Passed	75 / 101 (74.25%)
Checks Failed	26 / 101 (25.74%)
HTTP Failed Requests	16 / 101 (15.84%)
Avg Response Time	7.87s
95th Percentile Duration	60s (timeout limit hit)
Max Duration	60s
Data Received	30 MB
Data Sent	129 KB
Completed Iterations	0 (all interrupted)

Endpoint Summary:

Endpoint	Result
Login	✅ Success
Token exists	❌ 0% success
Search	✅ Success
Product	⚠️ 30% success (3/10)
Providers	✅ Success
Practice	❌ 0% success (0/9)
Service	✅ Success
Patient 8227/2500/...	✅ Success

3. Reporting

Key Observations:

- **Token validation failed entirely**.

- **Very high response times** — avg: ~7.87s, with some hitting the 60s max limit.

- **No iterations fully completed** due to high latency and short duration.

Root Causes:

- **Token Auth not working:** Possibly missing header or expired/invalid token.

- **High latency:** Could be due to backend load, network congestion, or poor endpoint performance.

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4. Recommendations

✅ Immediate Fixes:

- Fix token handling — ensure it's passed and valid in headers.

- Increase test duration (e.g., to 3–5 minutes) to allow iterations to complete.

- Confirm API availability and response under non-test conditions.