DASHBOARDS, NOT DRAMA:

HOW FIXED-COST CLOUDS MADE OBSERVABILITY FUN AGAIN

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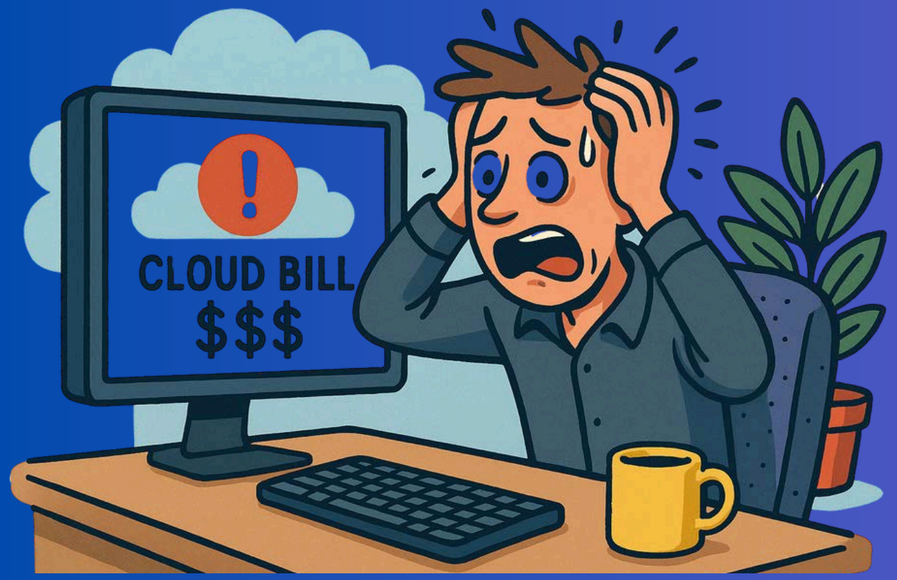


THE PROBLEM PART 1: THE FEAR

The Monitoring Fear Cycle

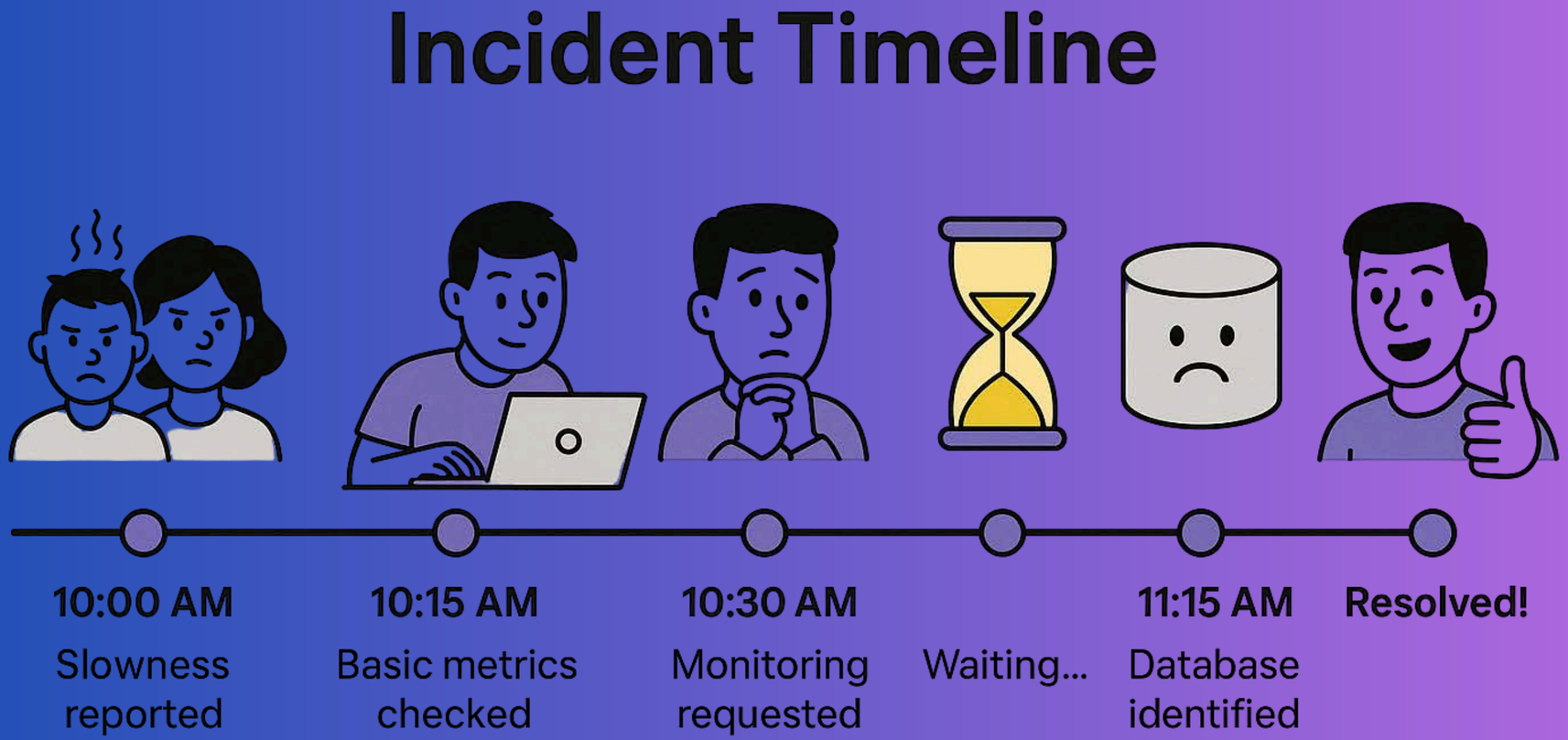
😊 Deploy Service ⬇️ 🚨 Incident! ⬇️ 📈 Add Monitoring ⬇️ 💰 Bill Spikes ⬇️ ✂️ Cut Monitoring ↩️

Repeat Forever... 🔄

The Problem Part 2: The Practical Impact

- Self-Censorship
- Delayed Detection
- Blind Debugging
- Crisis Monitoring
- Knowledge Gaps

WHY IT COSTS SO MUCH



TRADITIONAL MONITORING ARCHITECTURE

THE FOUR HORSEMEN OF MONITORING COSTS

1. Data Transfer
2. Ingest Processing
3. Storage
4. Query Costs

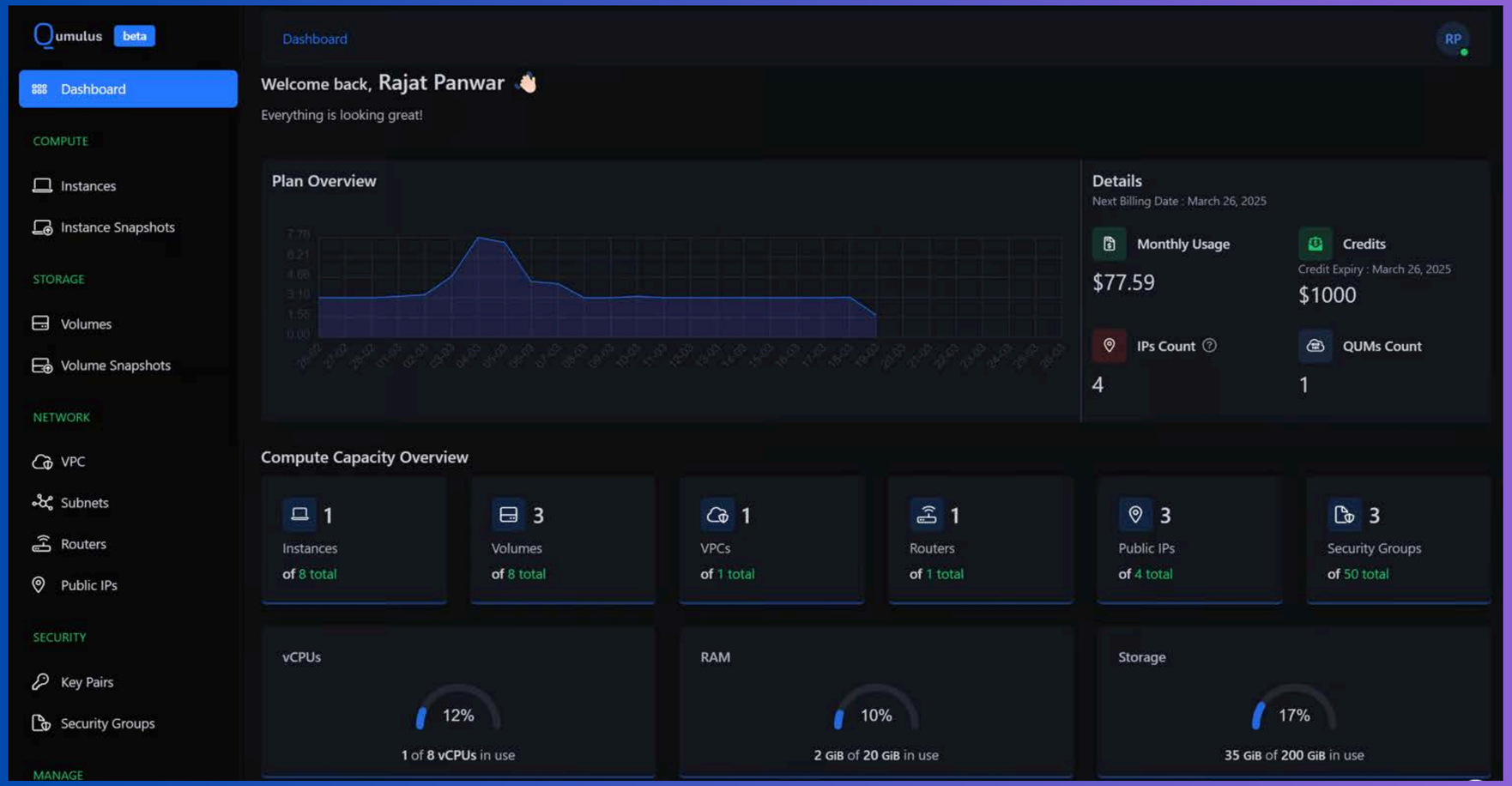
PROBLEMATIC ARCHITECTURES

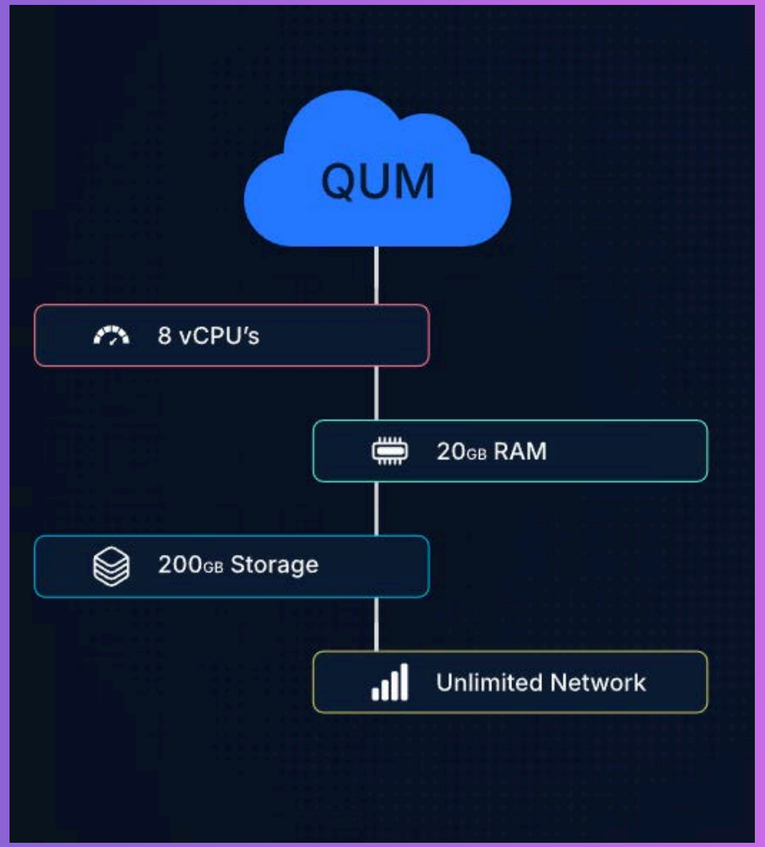
```javascript
// Metrics configuration - cost-optimized, not value-optimized
agent.configure({
  metrics: {
    scrapeInterval: '60s',  // Too infrequent to catch short-lived issues
    retention: '7d',        // Not enough history to see patterns
    sampling: 0.1,          // Only see 10% of your data!
    maxSeries: 10000        // Artificial limit on cardinality
  },
  logs: {
    level: 'error',         // Missing valuable warning and info logs
    samplingRate: 0.05,     // Only 5% of logs preserved
    exclusionFilters: [     // Complex rules to limit data
      'health-check',
      'debug-*',
      '/static/*'
    ]
  },
  tracing: {
    enabled: false,         // Too expensive for everyday use
    sampleRate: 0.01        // Only 1% of requests traced when enabled
  }
});
```

Alert Configuration Example

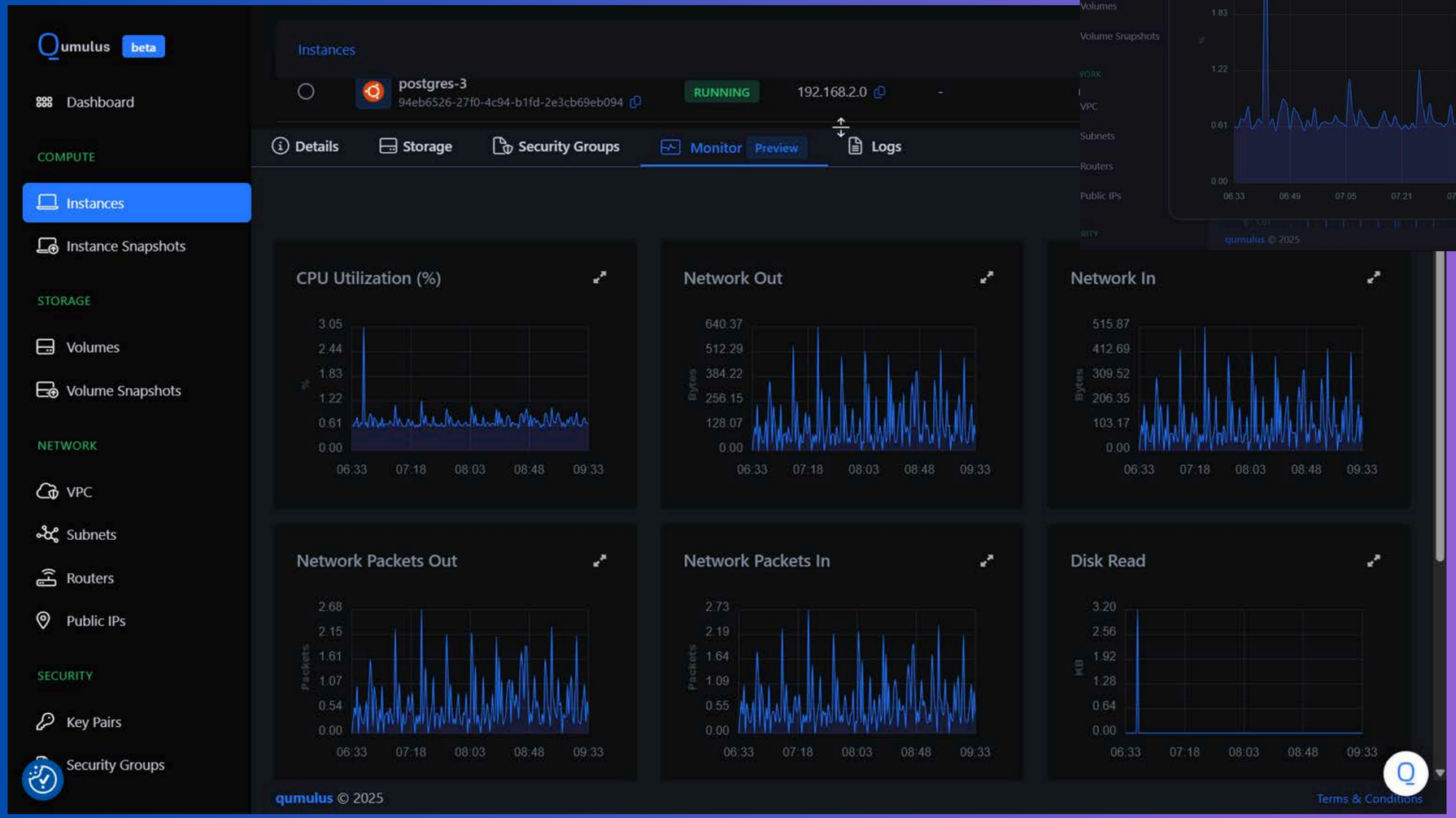
```yaml
alerts:
  - name: HighCPUUsage
    description: "CPU usage high"
    query: "avg(cpu_usage) > 90"
    for: 5m  # Wait 5 minutes before alerting to save costs

  - name: APIErrorRate
    description: "Error rate high"
    query: "sum(api_errors) / sum(api_requests) > 0.05"
    # Only checked every 5 minutes to reduce query costs

  # Many alerts missing because they'd be too expensive
```

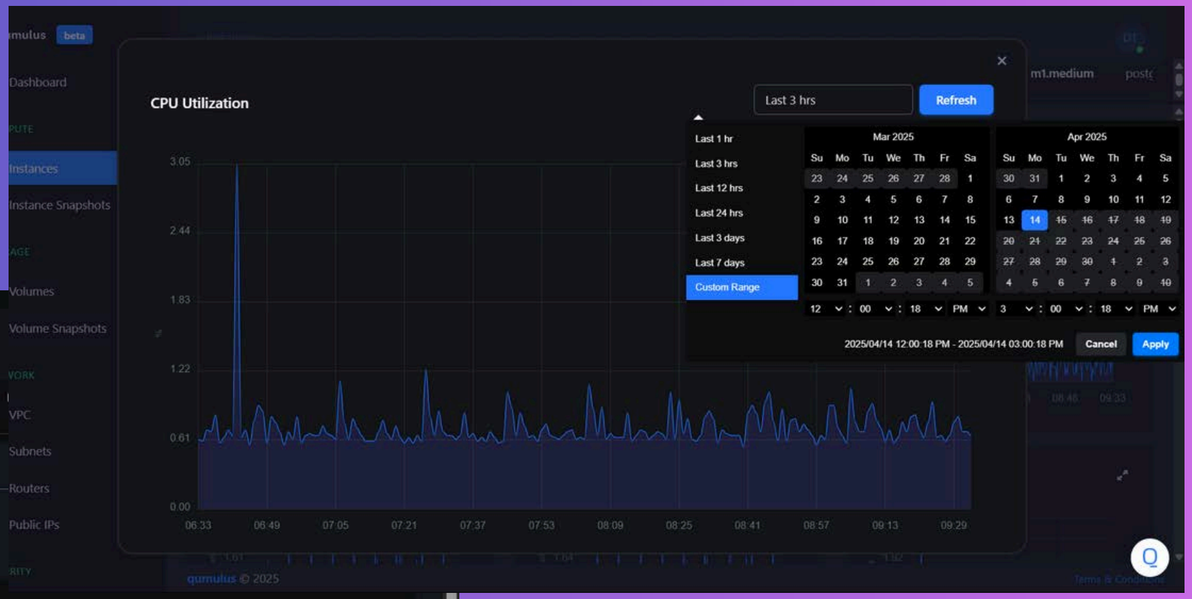
FIXED-COST: A DIFFERENT MODEL





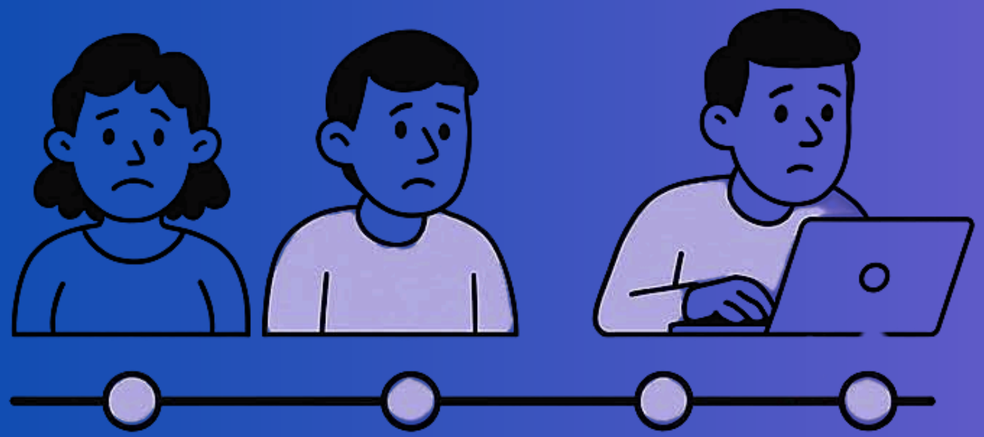
QUMULUS DASHBOARD





REAL IMPACT

Cost-Constraind Monitoring



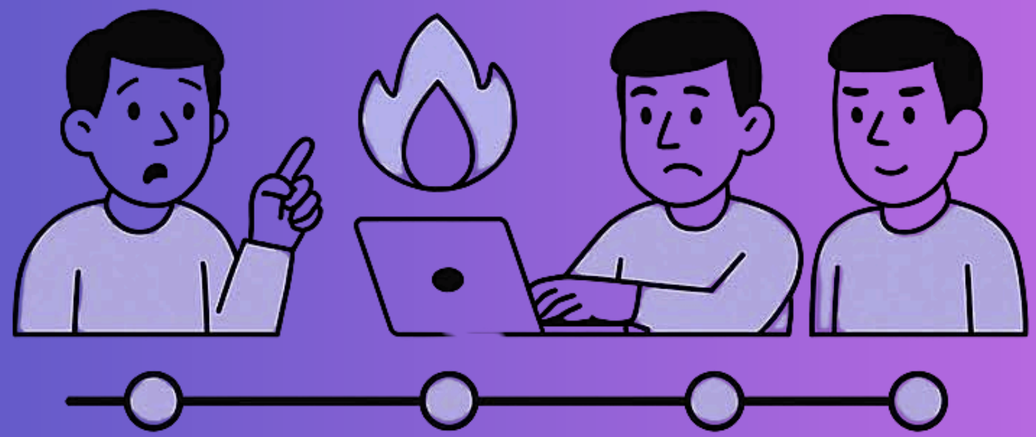
10:00 AM
Slowness reported

10.15 AM
Basic metrics checked

10.30 A
Monitoring requested

11.45 AM
Reso-ved!

Fixed-Cost Monitoring



10:05 AM
Early warning alert

10:10 AM
Root cause identified

10:20 A
Database connection pool exhaustion

Resolved!

DECISION

Dashboards, Not Drama: How Fixed-Cost Clouds Made Observability Fun Again

THANK YOU!

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