

Monthly Network Health Report



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Date: Monday, April 27, 2026

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Executive Summary

During the reporting period, overall network performance remained **stable and within acceptable operational thresholds**. Connectivity to Google, Cloudflare and ISP Gateway was consistently reliable, with **100% ICMP availability** and **no recorded packet loss**, indicating strong network stability and no evidence of congestion or latency issues.

Average network latency was measured at approximately **19 ms**, with minimal variation throughout the month. A small number of **isolated latency spikes** were observed, with a peak response time of approximately **58 ms**. These events were brief, did not correlate with packet loss, and had **no noticeable impact on service availability or reported user experience**.

No critical incidents or outages were recorded during this period. All monitored metrics met or exceeded defined service level expectations.

Overall Assessment: The network is operating in a **healthy and stable condition**, with no immediate risks or performance concerns identified.

Overall Network Health: Excellent

Key Highlights:

- Uptime: [100%]
- Packet Loss: [0% sustained]
- Latency: [19 ms avg]

Availability (ICMP Reachability)

Target Endpoint: Cloudflare DNS, Google DNS, ISP Endpoint, ISP Gateway.

Summary:

- Availability: [100%]
- Downtime Events: [0]



Packet Loss Analysis

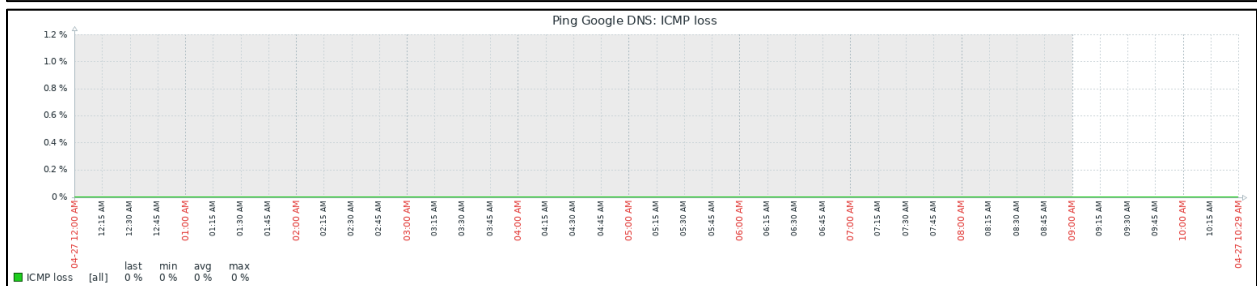
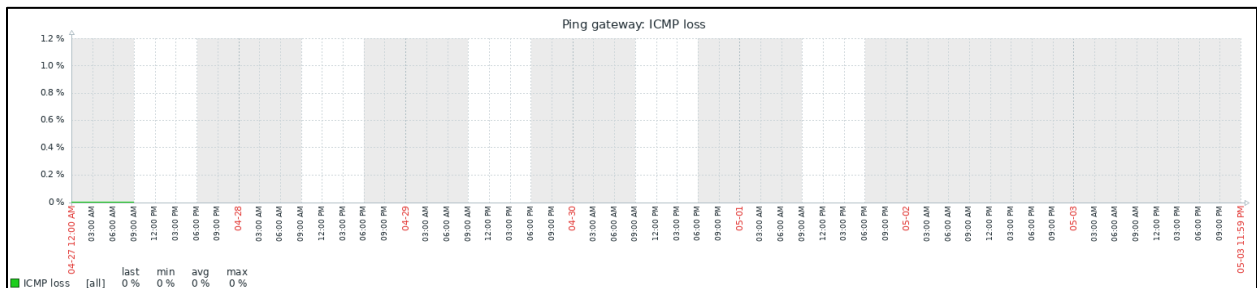
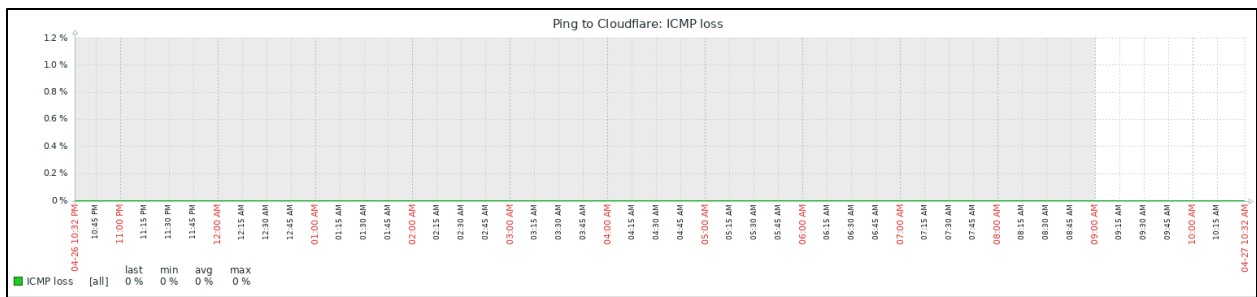
Target Endpoint: Cloudflare DNS, Google DNS, ISP Endpoint, ISP Gateway.

Summary:

- Average Packet Loss: [0%]
- Maximum Packet Loss: 0%
- Degraded Periods: [None]

Observations:

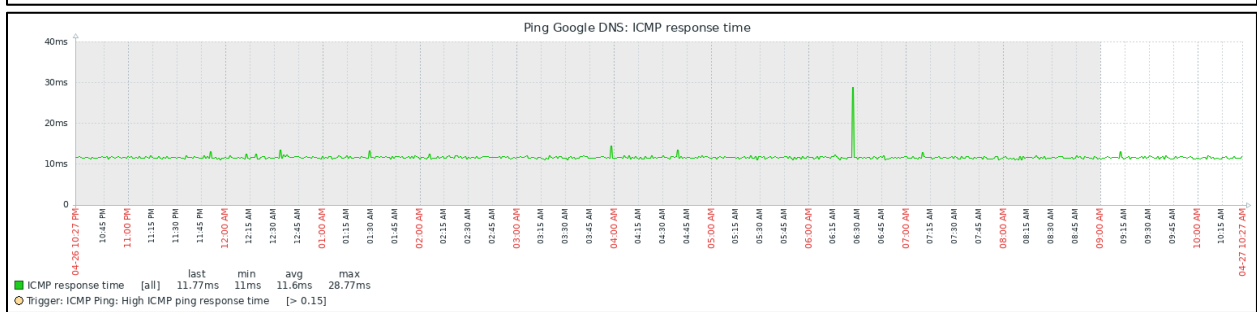
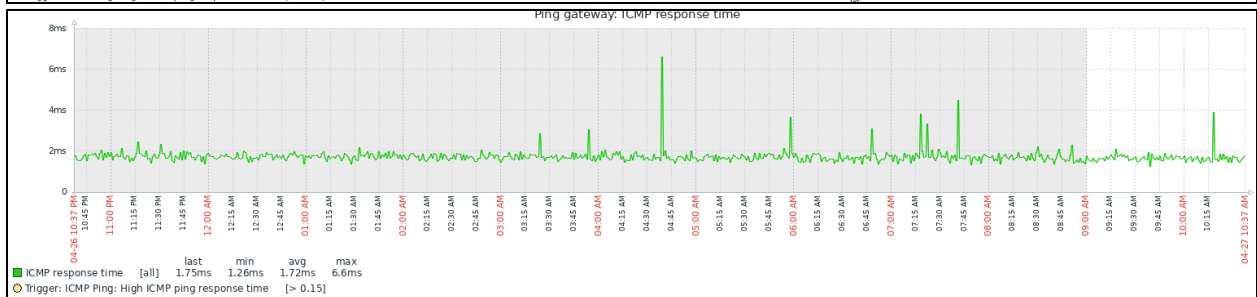
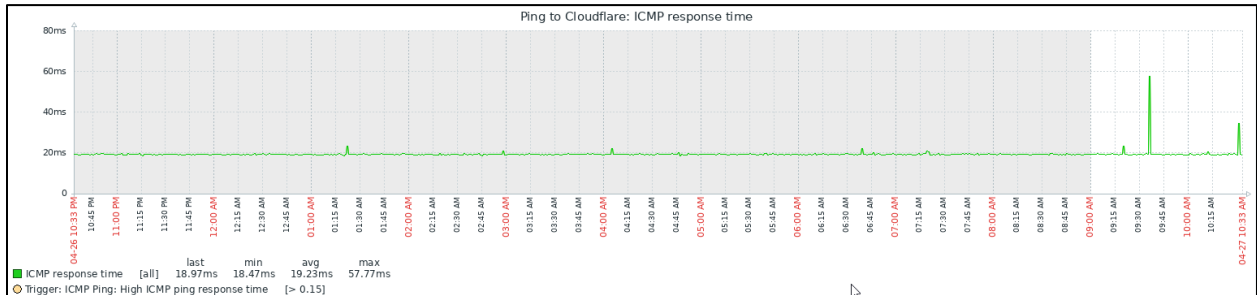
- Network shows stable transmission with no measurable packet loss.
- Indicates healthy routing and no congestion.



Latency (Response Time) Analysis

Summary:

- Average Latency: [19.23 ms]
- Minimum Latency: [18.47 ms]
- Maximum Latency: [57.77 ms]
- Variability: [Low]



Incidents & Alerts

Date	Issue Description	Duration	Impact	Resolution
Apr. 27, 26	Latency spike	1 min	low	Auto recovered

Trends & Insights

- Network performance remained **consistently stable**.
- No degradation trends detected.
- Latency spikes appear **isolated and non-impacting**.
- Infrastructure handling loads efficiently.

Recommendations

- Continue monitoring latency spikes for pattern detection.
- Maintain current routing and peering configuration.
- Optional:
 - ✓ Implement alerting thresholds for latency > [60 ms]
 - ✓ Add secondary monitoring endpoints for redundancy