NORTH-SOUTH AND **EAST-WEST TRAFFIC**

It's a simple question without an easy answer: What encryption technologies are organizations seeing in their networks, not just for North-South internet traffic, but also East-West intra-organization communications? There are many surveys and research reports for public internet use of SSL/TLS. This research is unique in studying trends in the use of encryption for internal network and applications.

PRODUCTION TRAFFIC DATA



654,498,305,927

North-South Flows



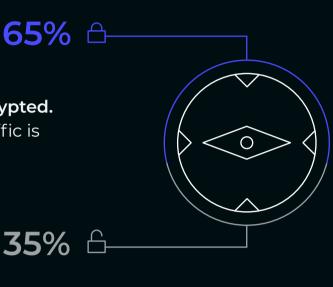
706,535,646,582 East-West Flows

ENCRYPTED VS. NOT ENCRYPTED



⊕ 81%

81% of North-South Traffic is encrypted. Overwhelming amount of encrypted traffic underscores the importance of decrypting and inspecting this blind spot.



Encrypting all feasible East-West Traffic is

35% of East-West Traffic is not encrypted.

an opportunity for organizations to improve security posture.

80.90

75

VERSION BREAKDOWN



some reworking of tool deployment architecture, but allowing this traffic through uninspected poses an increasingly greater risk.

84.52

TLS 1.3 is off to a strong start in North-South

Traffic. TLS 1.3 may require

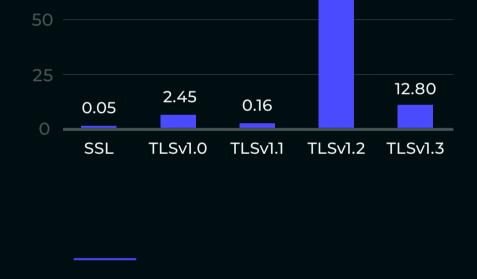
East-West Traffic. Use of outdated protocols poses

an unacceptable risk and

TLS 1.2 dominates

must be addressed.

100



THE CONTINUED USE OF SSL





RECOMMENDATIONS

Understand the impact of

Plan for traffic growth

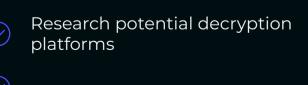
decryption on network devices

Know what traffic needs to be decrypted

Determine your solution's limitations

Know your traffic's volume and

composition



Eliminate the possibility of outages

Have an inspection plan

Gigamon offers a deep observability pipeline that harnesses actionable network-level intelligence to amplify the power of observability tools. This

powerful combination enables IT organizations to assure security and compliance governance, speed root-cause analysis of performance bottlenecks, and lower operational overhead associated with managing

Read the report for more findings and actionable TLS inspection recommendations.

hybrid and multi-cloud IT infrastructures.