



2021

WRAP UP SUMMARY REPORT

UPGRADE INTERNET CONNECTION FOR NILAI SITE



IT DEPARTMENT



1.0 INTRODUCTION

Introduction:

- Replace existing network internet subscribed package to new package

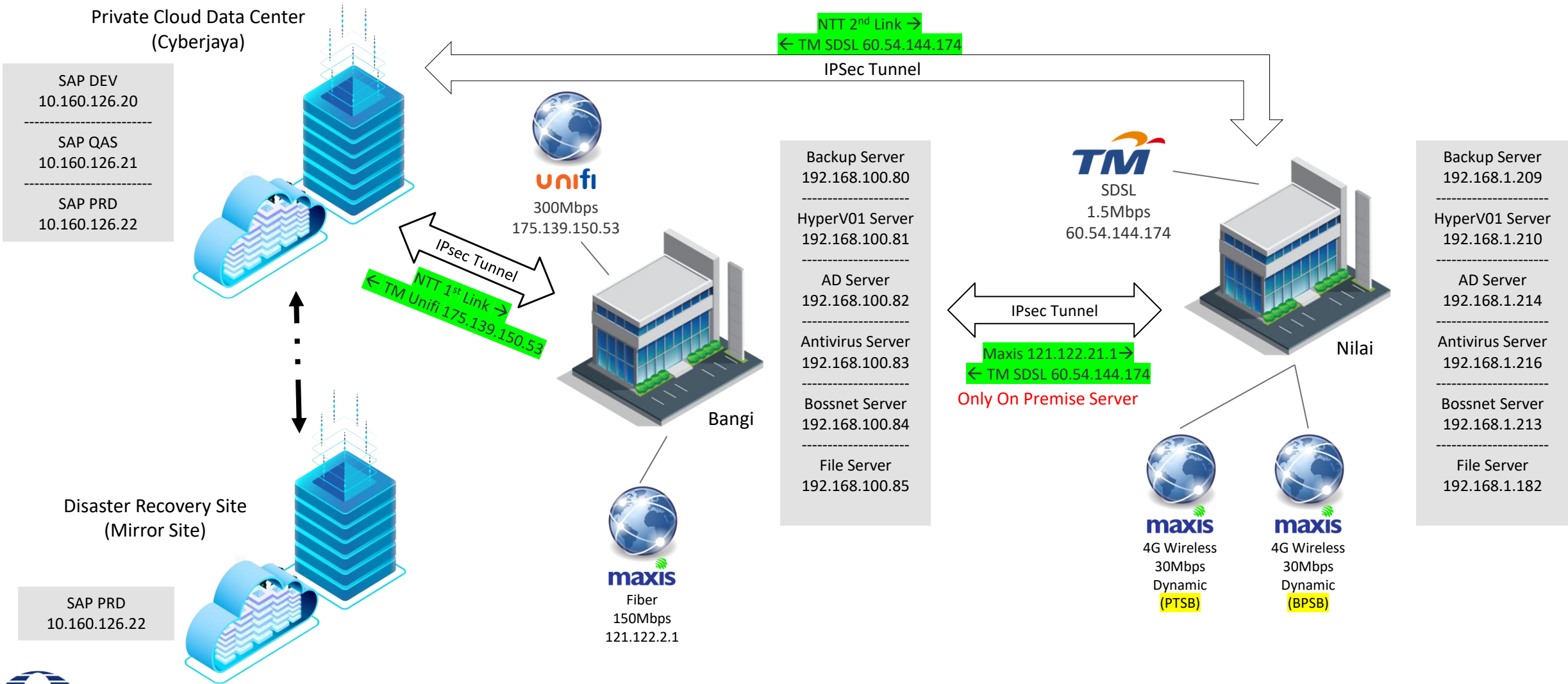
Objective:

- Establish much stable and faster speed IP-Sec connection between SAP Datacenter, Bangi & Nilai site
- Reduce internet plan subscription cost



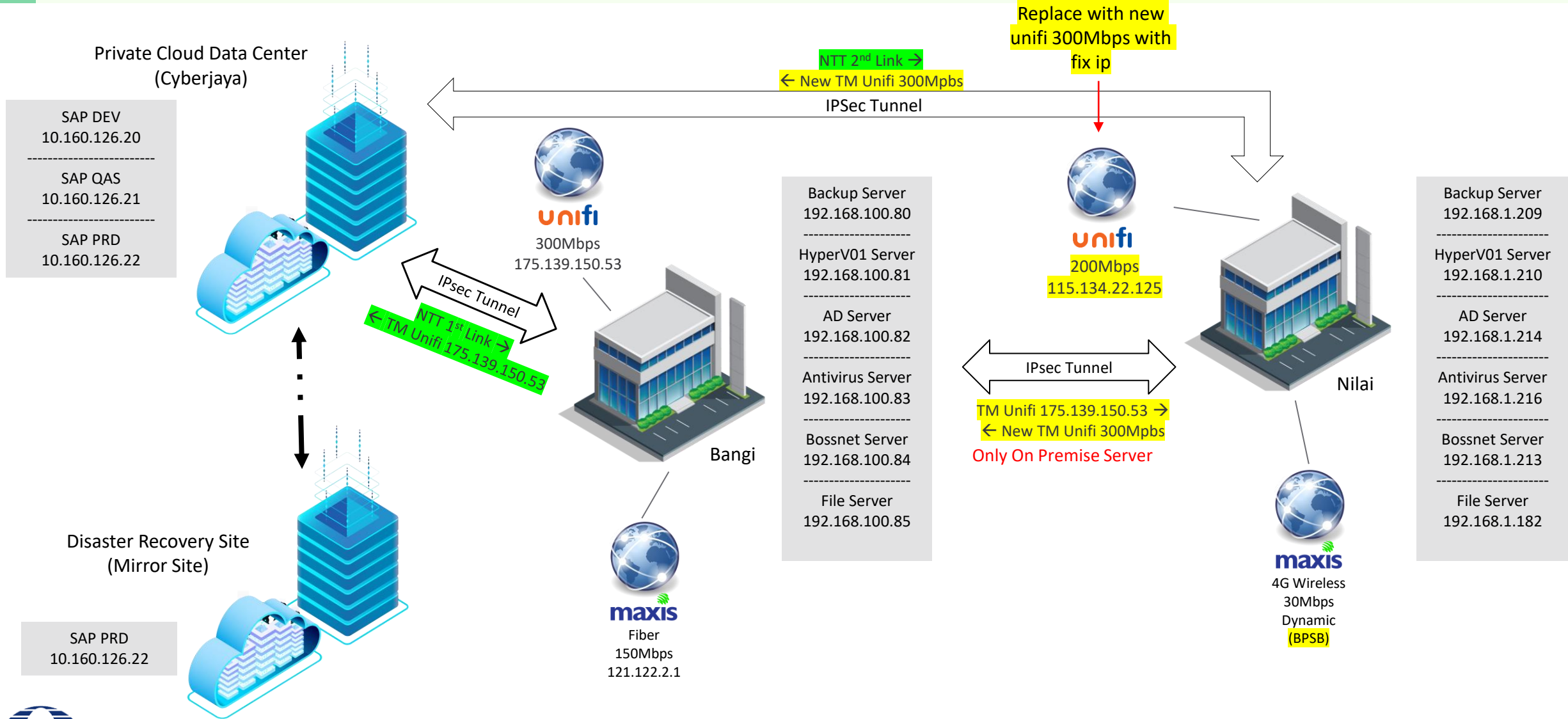
2.0 INFRA DIAGRAM

BEFORE UPGRADE



INFRA DIAGRAM

AFTER UPGRADE



3.0 PROCESS FLOW

Reconfigure 3 Site IPsec Cost

PHASE 1

- Apply new Unifi with IP package 300Mbps for Plastictecnic – Nilai
- Request network configuration work

PHASE 2

- Reconfiguration of Internet Connection to new Unifi at Nilai
- Reconfigure IPsec to Bangi Server using new Unifi
- Reconfiguration of Security Policy
- Reconfiguration of Routing for SAP Reconfigure
- Perform testing on new IPSEC
- Remove old custom IPSEC, routing & security policy

PHASE 3

- Reconfigure IPsec to SAP NTT Datacenter using new Unifi at Nilai
- Reconfiguration of Security Policy
- Reconfiguration of Routing for SAP
- Remove old custom IPSEC, routing & security policy



4.0 Advanteges

Why enhancement is need?



- **Reduce monthly fee:** Existing internet plan monthly fee higher than new plan with the higher speed



- **Increase Nilai site connection speed:** Minimize network routine for Nilai and separate Nilai & Bangi user into difference IP-Sec Tunnel



- **Minimize Ipsec connection downtime:** Higher speed and more stability line



- **Increase stable, reliability, efficiency network structure:** Reduce data flow in each IP-Sec Tunnel by divide IP-Sec Tunnel into 2. More easy on network management

5.0 Other

Other Issue

- **Subnet configure issue:**

- Existing Sub net at Nilai is crack with Bangi, there Bangi User VLAN segment is not able direct connect to Nilai Server

User need to connect to Nilai server

No	Name	Computer Name	Department	Access
1	Fatin Syafiqah	PT-PC-136	Finance	Share Folder
2	Cheryl Lai	PTSB-ACCNB03	Finance	Share Folder
3	Low Lay Heong	PTSB-ACCNB02	Finance	Share Folder
4	Lee Yoke Lan	PTSB-ACCNB01	Finance	Share Folder
5	Leu Feng Mei	BP-PC-006	HR	BossNet
6	Farehah	Pt-PC-102	HR	BossNet
7	Nizam	PTSB-BHRPC01	Nizam	BossNet
8	Rozita	BOSSNETBACKUP	HR	BossNet & Share Folder

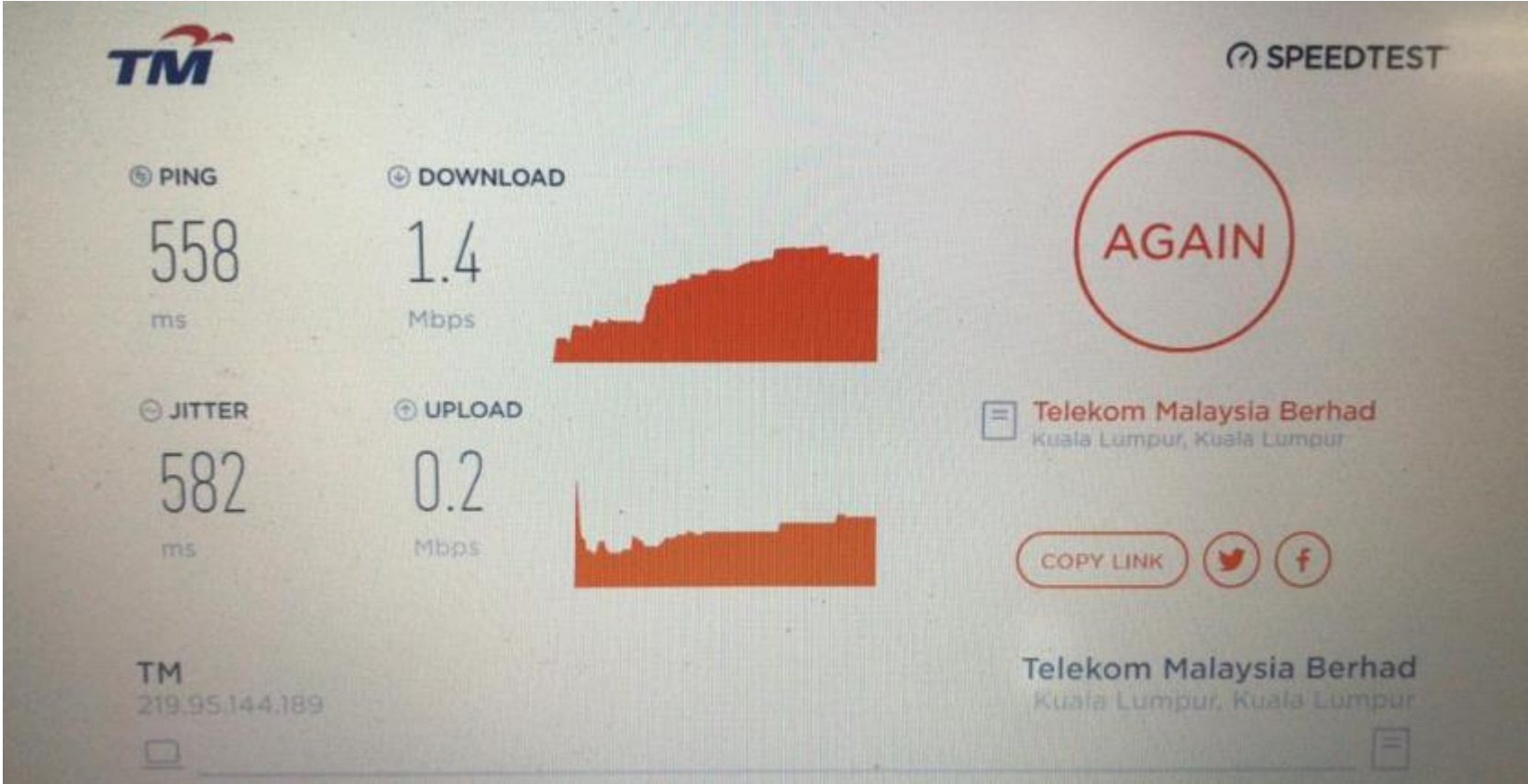
Solution:

1. Using VPN to Nilai, no extra cost. Just need to manual connect VPN to Nilai every time



6.0 Appendixes

Speed Test Before Upgrade



6.0 Appendixes

Speed Test After Upgrade to Unifi Fiber

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.17763.2237]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=49ms TTL=118
Reply from 8.8.8.8: bytes=32 time=18ms TTL=118
Reply from 8.8.8.8: bytes=32 time=31ms TTL=118
Reply from 8.8.8.8: bytes=32 time=7ms TTL=118

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 7ms, Maximum = 49ms, Average = 26ms

C:\Users\Administrator>
```

TM SPEEDTEST

PING	DOWNLOAD
6 ms	230.9 Mbps
JITTER	UPLOAD
1 ms	48.2 Mbps

AGAIN

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Speed achieve up to 230Mbps

Moving Forward To Industry 4.0

Q&A

