VPN SPLIT TUNNELING OVERVIEW

Remote Office

ThunderCloud Video cloudfront.net

Video - Through VPN Split

Data - Through VPN Tunnel
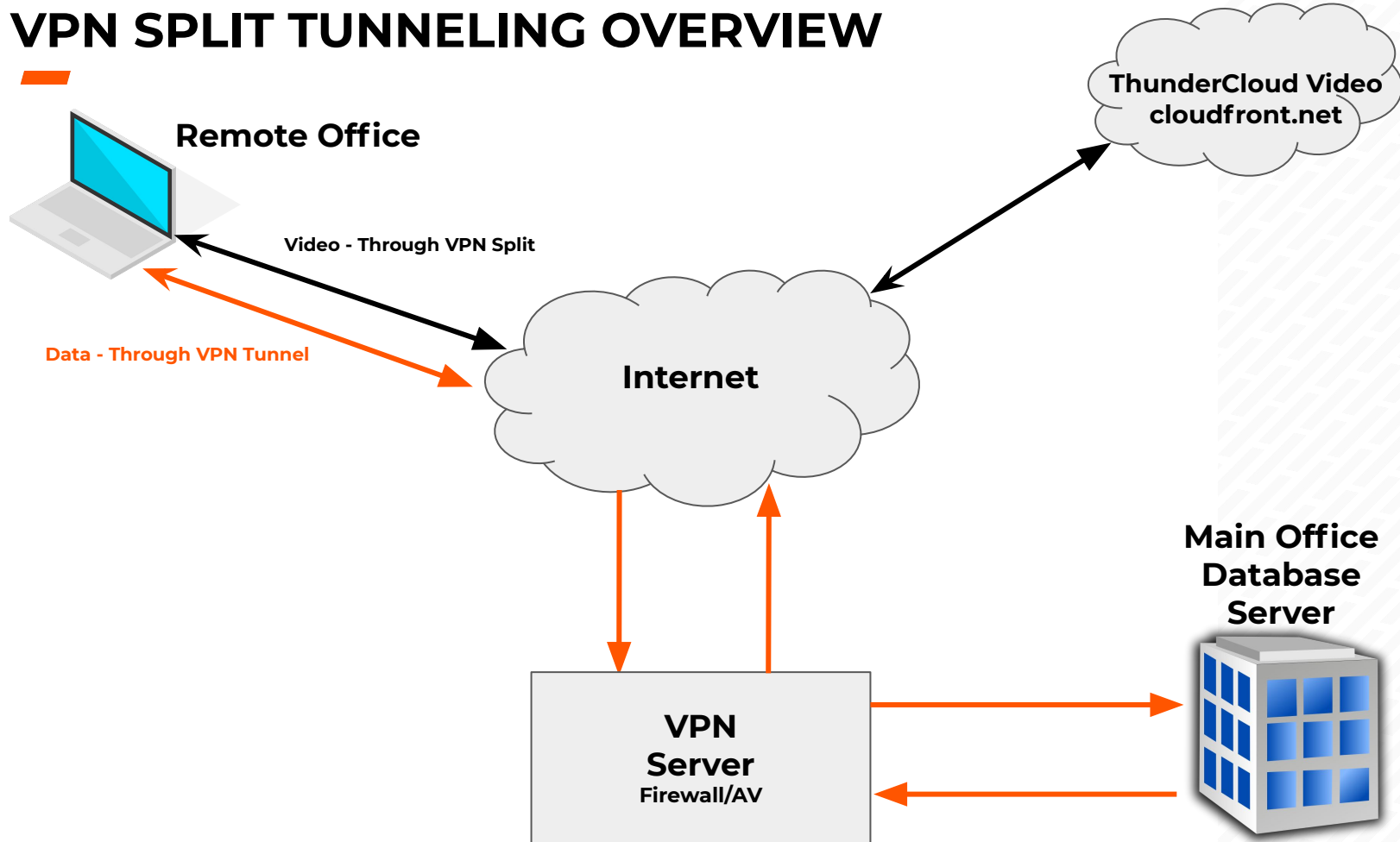
Internet

Main Office Database Server

VPN Server

Firewall/AV

VPN OVERVIEW

Recommended Configuration- Minimum bandwidth ~50Mbs, Latency <20ms

- Remote Thunder Client
    - Win-10 Thunder Laptop
    - Connected to local "at home" router via CAT-6 cable for full duplex 1Gb connection
        - Do NOT use Wi-Fi which will have less throughput, is half duplex and will have higher latency
    - ISP was Comcast via cable modem
    - Ping from Thunder Client to XOS Combo Server over VPN was ~11ms
- VPN
    - Used to connect from Remote Thunder Client to XOS Wilm Office to access Thunder DB
    - Important - Ensure that VPN Split Tunneling is enabled so that:
        - Only traffic destined for Wilm Office goes over VPN
        - All Internet and AWS S3 Traffic does not go over VPN but directly from Remote Router to Internet Site.
            - No load or traffic impact on XOS Office Internet Connection or Firewall
            - Therefore, a very scalable approach...

NOTES

- Slightly longer Thunder load times(2-5 minutes)
- Slight delay loading folders(1-2 sec vs instant)
- PowerPoints will not play animations from the cloud
  - Recommend surging PPTs locally if animations are desired
- Heavy home traffic affects performance
  - Children streaming movies
  - Network based video games
- Video not pushed to cloud, will travel through the Full VPN, adding overhead to VPN bandwidth usage

Additional Split Tunnel Detail if desired