S3900 Series Switches Typical Network Solution

Models: S3900-48T4S/S3900-24T4S

Background

Traffic is being blocked when all people are working currently. A customer who provides IT services from France needs a solution to connect 3 rooms to a server room with several existing servers in a building. A flexible and redundant network solution is desperately needed to improve present situation.

Challenge

As of now, customer has part of HP servers, i.e. HP dl360, dl380, Lenovo RS160 all with 1 GbE LAN, needs to connect them with FS switches and also realize various and large terminal equipment connectivity demands, such as workstations, surveillance, VoIP and wireless AP access etc.
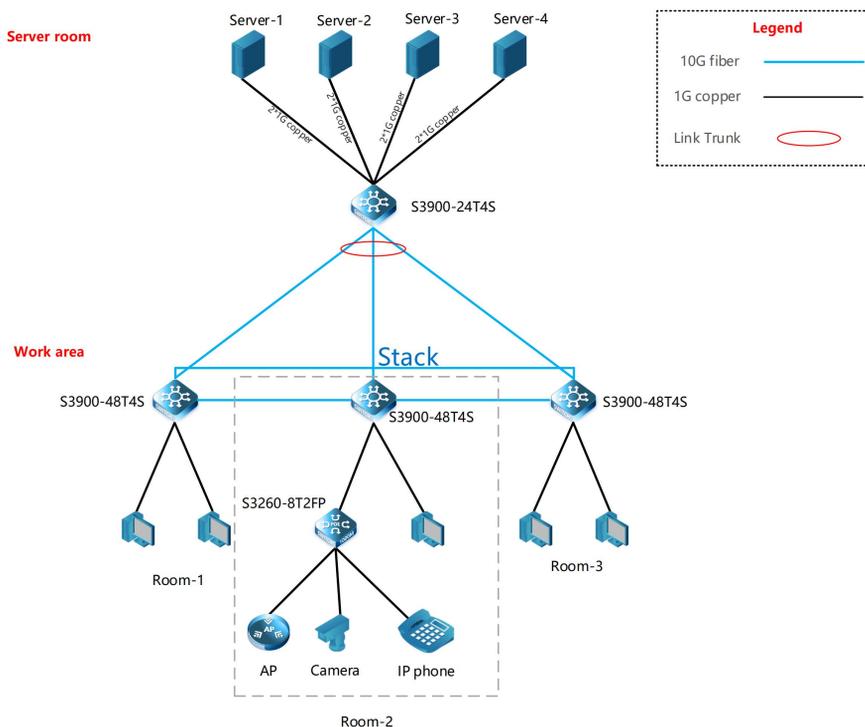
Solution

FS solution adopts stacking and LACP to form a full link redundant network structure to meet customer's bandwidth and later upgrade requirements. The entire network is simple and convenient for flexible and rapid deployment, management and maintenance.

Stacking: Configure three S3900-48T4S switches in a way that they appear as a single switch and act cooperatively. It allows users to expand their network capacity without the hassle of managing multiple devices. Add or remove a switch from a stack as needed without affecting the overall performance of the stack.

LACP: The S3900-24T4S is connected to three stacked S3900-48T4S switches respectively with LACP configured. In this way, core link redundancy and transmission load balancing is achieved. If any one or two links fail, services can be automatically switched to other links for transmission, which improves network reliability at a high level.

FS

Product List

ID	Description	Qty
72946	S3900-48T4S 48-Port 10/100/1000BASE-T Gigabit Stackable Managed Switch with 4 10Gb SFP+ Uplinks	3
72944	S3900-24T4S Fanless 24-Port 10/100/1000BASE-T Gigabit Stackable Managed Switch with 4 10Gb SFP+ Uplinks	1
80365	8-Port Gigabit PoE+ Managed Switch with 2 SFP, 260W	1
84026	733Mbps 2x2 MIMO Dual-Band FAT/FIT Wireless Access Point	1
11552	FS for Cisco SFP-10G-SR Compatible, 10GBASE-SR SFP+ 850nm 300m DOM Transceiver Module (Standard)	12
41730	1m (3ft) LC UPC to LC UPC Duplex OM3 Multimode PVC (OFNR) 2.0mm Fiber Optic Patch Cable	6
70555	3ft (0.9m) Cat5e Snagless Unshielded (UTP) PVC CM Ethernet Network Patch Cable, Blue	99

NOTE: If you have any questions or requirements, please contact FS technician team or your Account Manager for personalized services：https://www.fs.com/solution_support.html

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Singapore

Australia

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