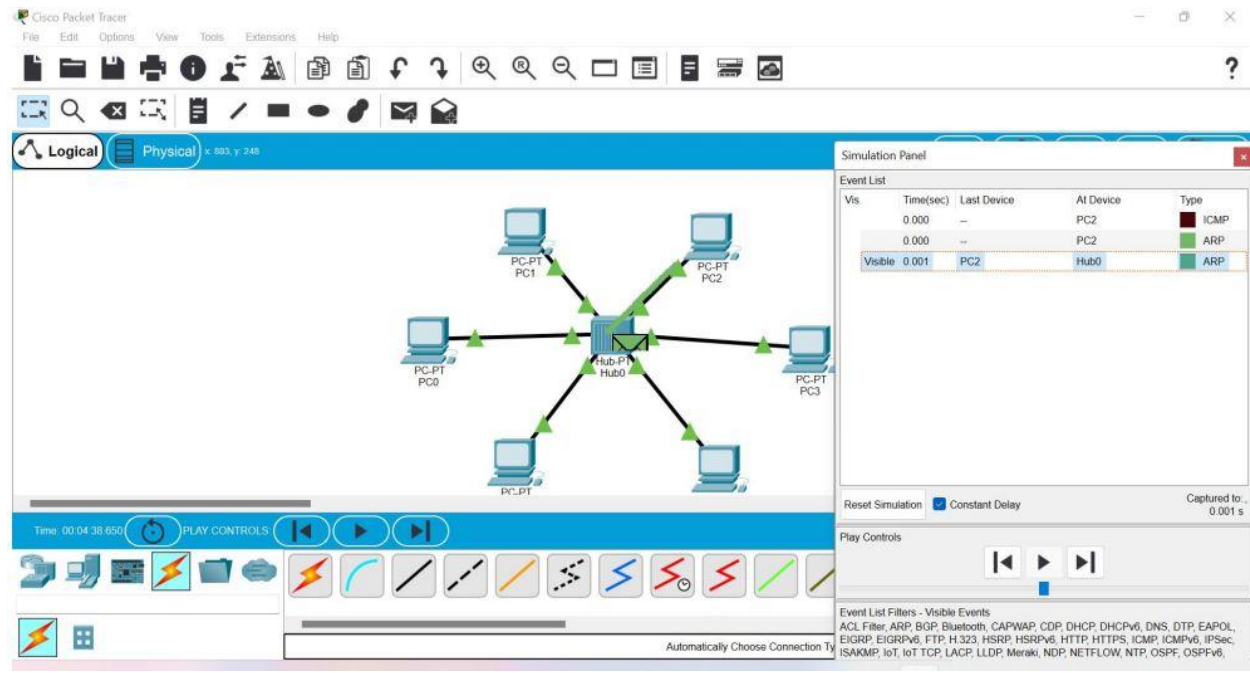


192110441

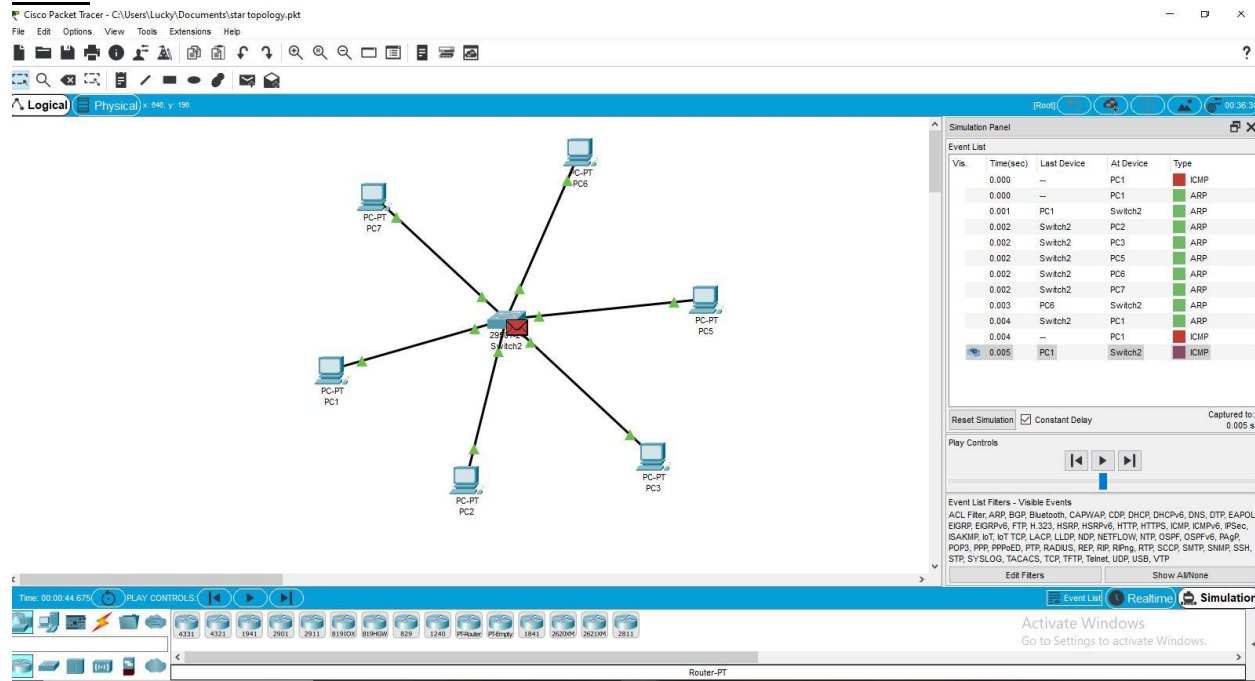
k.praveen kumar

*Configuration of network devices



*Configuration of topologies-star,mesh,tree.

STAR



The screenshot displays the Cisco Packet Tracer interface. The main workspace shows a network topology with the following components:

- Central Core:** A 2960-24TT Switch0 at the top center.
- Left Edge:** A 2960-24TT Switch1 connected to Laptop-PT Laptop6.
- Bottom Left:** Two 2960-24TT Switches (Switch4 and Switch5) connected to Switch1.
- Bottom Center:** A 2960-24TT Switch6 connected to Switch0 and Switch7.
- Right Edge:** A 2960-24TT Switch8 connected to Switch0 and Switch9.
- Far Right:** A 2960-24TT Switch9 connected to Switch8 and Laptop1.
- Top:** A Laptop-PT Laptop2 connected to Switch0.

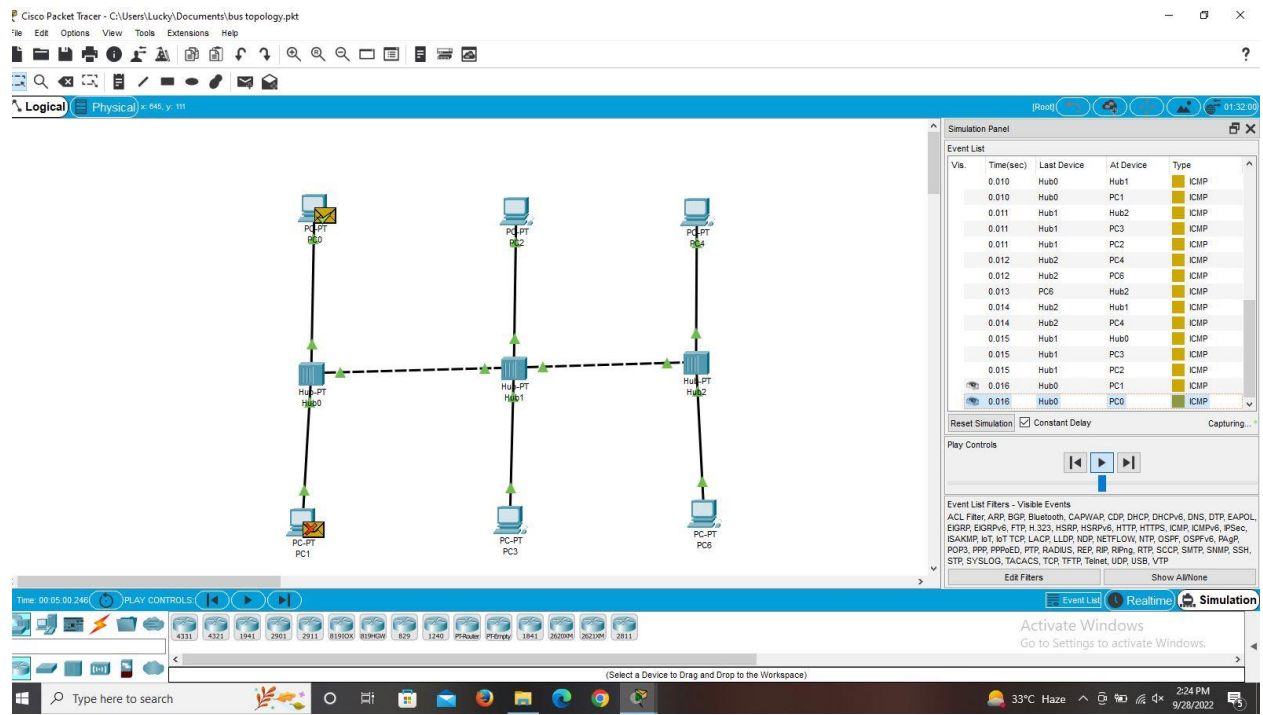
The right-hand panel shows the **Simulation Panel** with the **Event List** tab selected. The event list contains the following entries:

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	Laptop0	ICMP
	0.001	Laptop0	Switch1	ICMP
	0.002	Switch1	Switch0	ICMP
	0.003	Switch0	Switch3	ICMP
	0.004	Switch3	Laptop1	ICMP
	0.005	Laptop1	Switch3	ICMP
	0.006	Switch3	Switch0	ICMP
	0.007	Switch0	Switch1	ICMP
	0.008	Switch1	Laptop0	ICMP
	0.920	--	Switch7	STP

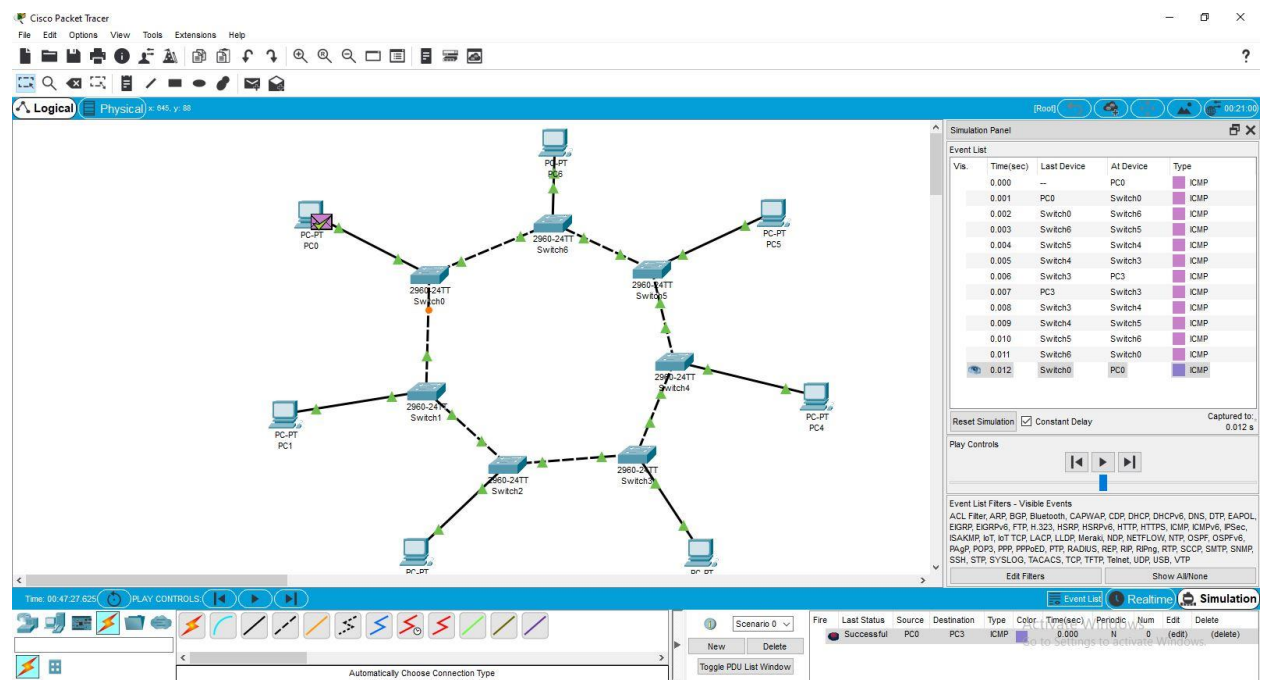
Below the event list, the **Play Controls** section shows the simulation is running at 0.920 s. The **Event List Filters** section lists visible events: ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPoL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSEC, ISAKMP, ISAKMPv6, ISAKMPv6v2, L2TP, L2TPv6, L2TPv6v2, LDP, LDPv6, LDPv6v2, LDPv6v3, LDPv6v4, LDPv6v5, LDPv6v6, LDPv6v7, LDPv6v8, LDPv6v9, LDPv6v10, LDPv6v11, LDPv6v12, LDPv6v13, LDPv6v14, LDPv6v15, LDPv6v16, LDPv6v17, LDPv6v18, LDPv6v19, LDPv6v20, LDPv6v21, LDPv6v22, LDPv6v23, LDPv6v24, LDPv6v25, LDPv6v26, LDPv6v27, LDPv6v28, LDPv6v29, LDPv6v30, LDPv6v31, LDPv6v32, LDPv6v33, LDPv6v34, LDPv6v35, LDPv6v36, LDPv6v37, LDPv6v38, LDPv6v39, LDPv6v40, LDPv6v41, LDPv6v42, LDPv6v43, LDPv6v44, LDPv6v45, LDPv6v46, LDPv6v47, LDPv6v48, LDPv6v49, LDPv6v50, LDPv6v51, LDPv6v52, LDPv6v53, LDPv6v54, LDPv6v55, LDPv6v56, LDPv6v57, LDPv6v58, LDPv6v59, LDPv6v60, LDPv6v61, LDPv6v62, LDPv6v63, LDPv6v64, LDPv6v65, LDPv6v66, LDPv6v67, LDPv6v68, LDPv6v69, LDPv6v70, LDPv6v71, LDPv6v72, LDPv6v73, LDPv6v74, LDPv6v75, LDPv6v76, LDPv6v77, LDPv6v78, LDPv6v79, LDPv6v80, LDPv6v81, LDPv6v82, LDPv6v83, LDPv6v84, LDPv6v85, LDPv6v86, LDPv6v87, LDPv6v88, LDPv6v89, LDPv6v90, LDPv6v91, LDPv6v92, LDPv6v93, LDPv6v94, LDPv6v95, LDPv6v96, LDPv6v97, LDPv6v98, LDPv6v99, LDPv6v100, LDPv6v101, LDPv6v102, LDPv6v103, LDPv6v104, LDPv6v105, LDPv6v106, LDPv6v107, LDPv6v108, LDPv6v109, LDPv6v110, LDPv6v111, LDPv6v112, LDPv6v113, LDPv6v114, LDPv6v115, LDPv6v116, LDPv6v117, LDPv6v118, LDPv6v119, LDPv6v120, LDPv6v121, LDPv6v122, LDPv6v123, LDPv6v124, LDPv6v125, LDPv6v126, LDPv6v127, LDPv6v128, LDPv6v129, LDPv6v130, LDPv6v131, LDPv6v132, LDPv6v133, LDPv6v134, LDPv6v135, LDPv6v136, LDPv6v137, LDPv6v138, LDPv6v139, LDPv6v140, LDPv6v141, LDPv6v142, LDPv6v143, LDPv6v144, LDPv6v145, LDPv6v146, LDPv6v147, LDPv6v148, LDPv6v149, LDPv6v150, LDPv6v151, LDPv6v152, LDPv6v153, LDPv6v154, LDPv6v155, LDPv6v156, LDPv6v157, LDPv6v158, LDPv6v159, LDPv6v160, LDPv6v161, LDPv6v162, LDPv6v163, LDPv6v164, LDPv6v165, LDPv6v166, LDPv6v167, LDPv6v168, LDPv6v169, LDPv6v170, LDPv6v171, LDPv6v172, LDPv6v173, LDPv6v174, LDPv6v175, LDPv6v176, LDPv6v177, LDPv6v178, LDPv6v179, LDPv6v180, LDPv6v181, LDPv6v182, LDPv6v183, LDPv6v184, LDPv6v185, LDPv6v186, LDPv6v187, LDPv6v188, LDPv6v189, LDPv6v190, LDPv6v191, LDPv6v192, LDPv6v193, LDPv6v194, LDPv6v195, LDPv6v196, LDPv6v197, LDPv6v198, LDPv6v199, LDPv6v200, LDPv6v201, LDPv6v202, LDPv6v203, LDPv6v204, LDPv6v205, LDPv6v206, LDPv6v207, LDPv6v208, LDPv6v209, LDPv6v210, LDPv6v211, LDPv6v212, LDPv6v213, LDPv6v214, LDPv6v215, LDPv6v216, LDPv6v217, LDPv6v218, LDPv6v219, LDPv6v220, LDPv6v221, LDPv6v222, LDPv6v223, LDPv6v224, LDPv6v225, LDPv6v226, LDPv6v227, LDPv6v228, LDPv6v229, LDPv6v230, LDPv6v231, LDPv6v232, LDPv6v233, LDPv6v234, LDPv6v235, LDPv6v236, LDPv6v237, LDPv6v238, LDPv6v239, LDPv6v240, LDPv6v241, LDPv6v242, LDPv6v243, LDPv6v244, LDPv6v245, LDPv6v246, LDPv6v247, LDPv6v248, LDPv6v249, LDPv6v250, LDPv6v251, LDPv6v252, LDPv6v253, LDPv6v254, LDPv6v255, LDPv6v256, LDPv6v257, LDPv6v258, LDPv6v259, LDPv6v260, LDPv6v261, LDPv6v262, LDPv6v263, LDPv6v264, LDPv6v265, LDPv6v266, LDPv6v267, LDPv6v268, LDPv6v269, LDPv6v270, LDPv6v271, LDPv6v272, LDPv6v273, LDPv6v274, LDPv6v275, LDPv6v276, LDPv6v277, LDPv6v278, LDPv6v279, LDPv6v280, LDPv6v281, LDPv6v282, LDPv6v283, LDPv6v284, LDPv6v285, LDPv6v286, LDPv6v287, LDPv6v288, LDPv6v289, LDPv6v290, LDPv6v291, LDPv6v292, LDPv6v293, LDPv6v294, LDPv6v295, LDPv6v296, LDPv6v297, LDPv6v298, LDPv6v299, LDPv6v300, LDPv6v301, LDPv6v302, LDPv6v303, LDPv6v304, LDPv6v305, LDPv6v306, LDPv6v307, LDPv6v308, LDPv6v309, LDPv6v310, LDPv6v311, LDPv6v312, LDPv6v313, LDPv6v314, LDPv6v315, LDPv6v316, LDPv6v317, LDPv6v318, LDPv6v319, LDPv6v320, LDPv6v321, LDPv6v322, LDPv6v323, LDPv6v324, LDPv6v325, LDPv6v326, LDPv6v327, LDPv6v328, LDPv6v329, LDPv6v330, LDPv6v331, LDPv6v332, LDPv6v333, LDPv6v334, LDPv6v335, LDPv6v336, LDPv6v337, LDPv6v338, LDPv6v339, LDPv6v340, LDPv6v341, LDPv6v342, LDPv6v343, LDPv6v344, LDPv6v345, LDPv6v346, LDPv6v347, LDPv6v348, LDPv6v349, LDPv6v350, LDPv6v351, LDPv6v352, LDPv6v353, LDPv6v354, LDPv6v355, LDPv6v356, LDPv6v357, LDPv6v358, LDPv6v359, LDPv6v360, LDPv6v361, LDPv6v362, LDPv6v363, LDPv6v364, LDP

*Configuration of topologies –bus,ring,hybrid

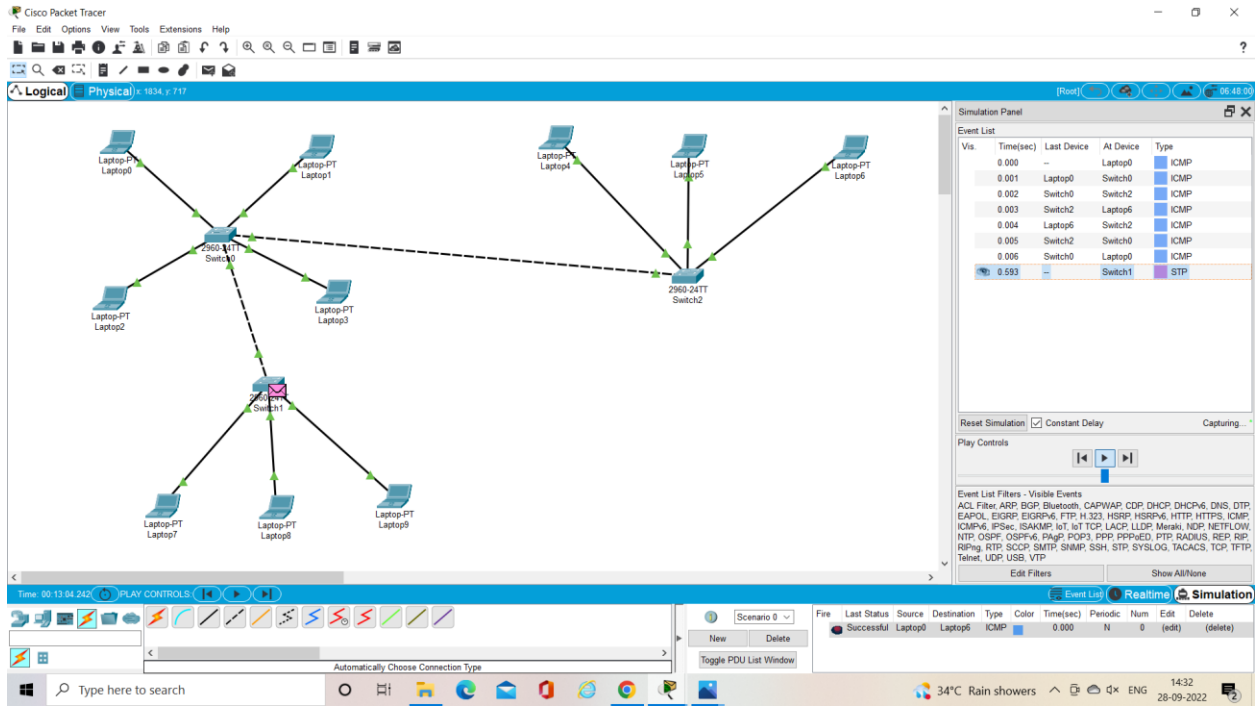
BUS



RING

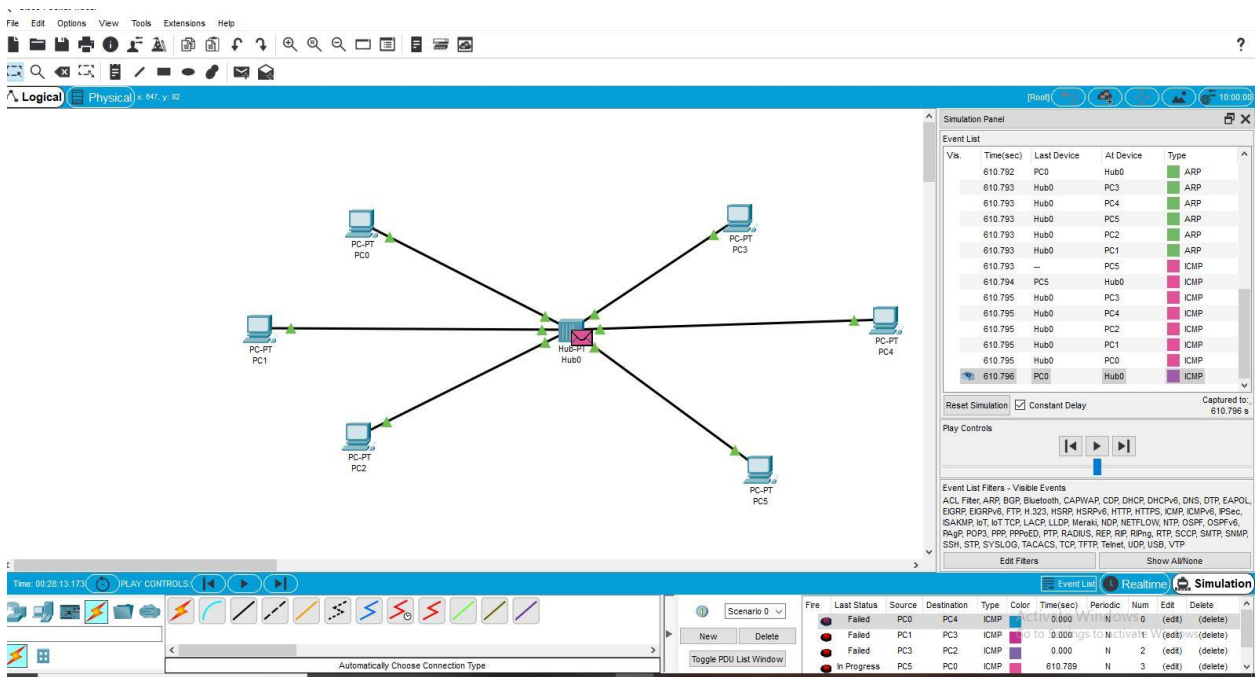


HYBRID



*Data Link Layer-

CSMA/CD



CSMA/CA

The screenshot shows the Cisco Packet Tracer interface. The central workspace displays a network topology with a central Hub-PT (Hub0) connected to three devices: a Server-PT (Server0) at the top, and two PC-PT (PC0 and PC1) at the bottom. The left sidebar shows the configuration for the selected device, Hub0, with the 'Out Layers' section expanded to Layer 1, showing 'Port(s): FastEthernet1, FastEthernet2'. The right sidebar shows the 'Simulation Panel' with an 'Event List' table.

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	FC0	ICMP
	0.002	Hub0	PC0	ARP
	0.002	Hub0	Server0	ARP
	0.002	Hub0	PC1	ARP
	2.002	--	PC0	ICMP
	103.256	--	PC0	ICMP
	103.260	--	PC0	ICMP
	103.261	PC0	Hub0	ICMP
	103.262	Hub0	Server0	ICMP
	103.262	Hub0	PC1	ICMP
	103.263	PC1	Hub0	ICMP
Visible	103.264	Hub0	PC0	ICMP
Visible	103.264	Hub0	Server0	ICMP

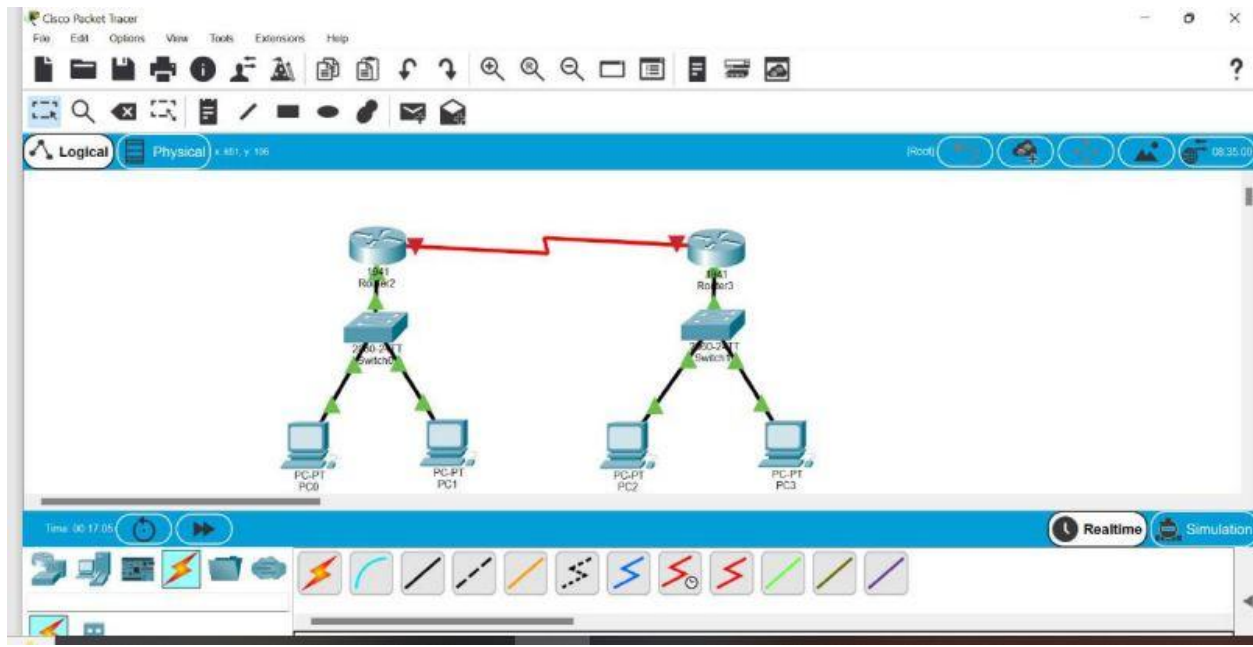
*.Data Link Layer-

ARP

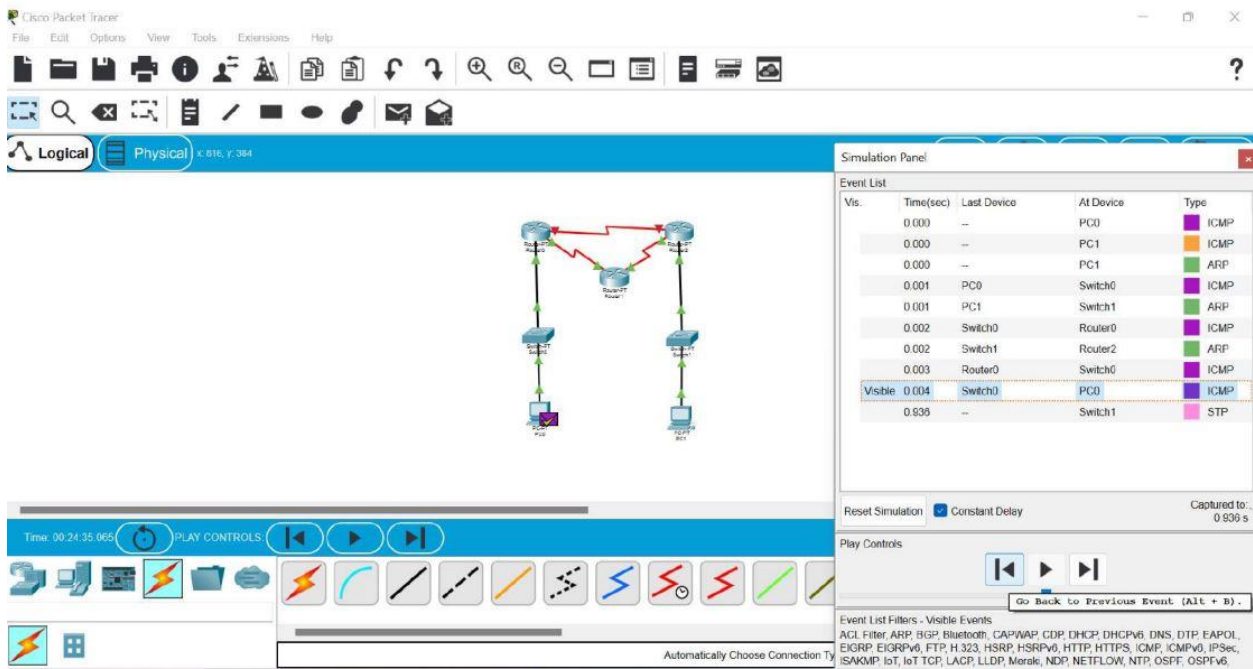
The screenshot shows the Cisco Packet Tracer interface. The central workspace displays a network topology with a central Hub-PT (Hub0) connected to three devices: a Server-PT (Server0) at the top, and two PC-PT (PC0 and PC1) at the bottom. The left sidebar shows the configuration for the selected device, Hub0, with the 'Out Layers' section expanded to Layer 1, showing 'Port(s): FastEthernet1, FastEthernet2'. The right sidebar shows the 'Simulation Panel' with an 'Event List' table.

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	PC0	ICMP
	0.000	--	PC0	ICMP
	0.001	PC0	Hub0	ICMP
	0.001	--	PC0	ICMP
	0.002	PC0	Hub0	ICMP
	0.002	Hub0	PC1	ICMP
	0.002	Hub0	Server0	ICMP
	0.003	Hub0	PC1	ICMP
	0.003	Hub0	Server0	ICMP
	0.003	PC1	Hub0	ICMP
	0.004	Server0	Hub0	ICMP
	0.004	Hub0	PC0	ICMP
	0.004	Hub0	Server0	ICMP
	0.005	Hub0	PC0	ICMP
	0.005	Hub0	PC1	ICMP

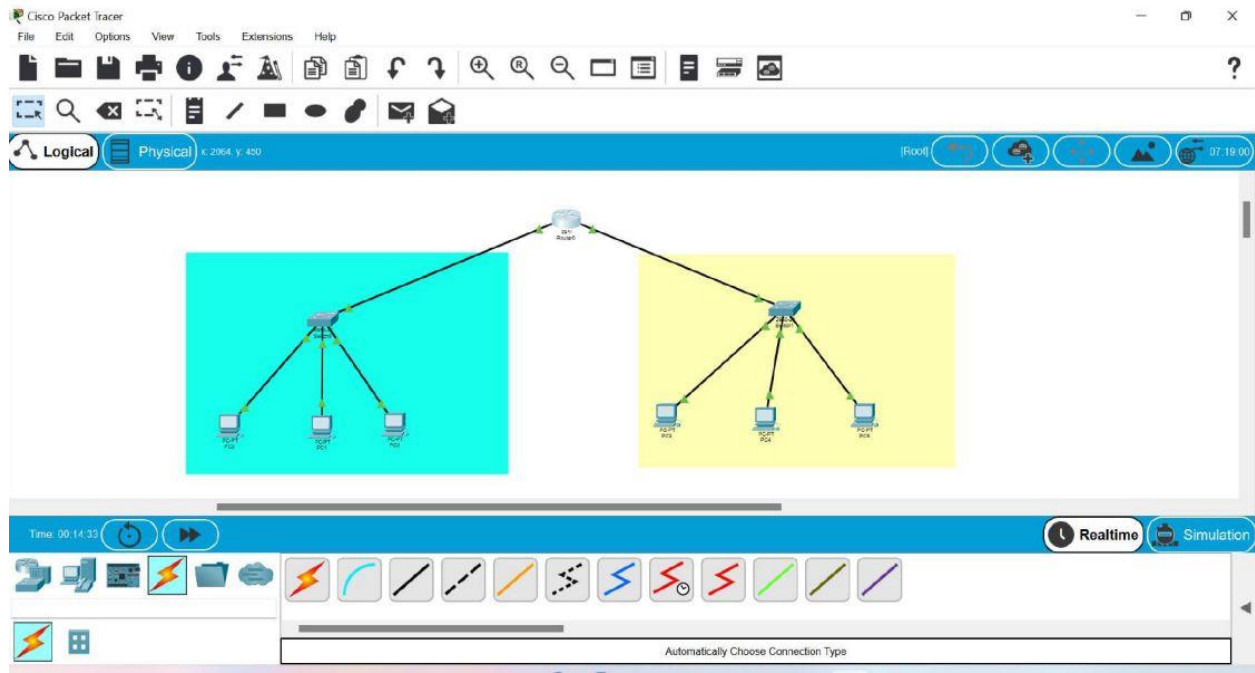
*STATIC ROUTER



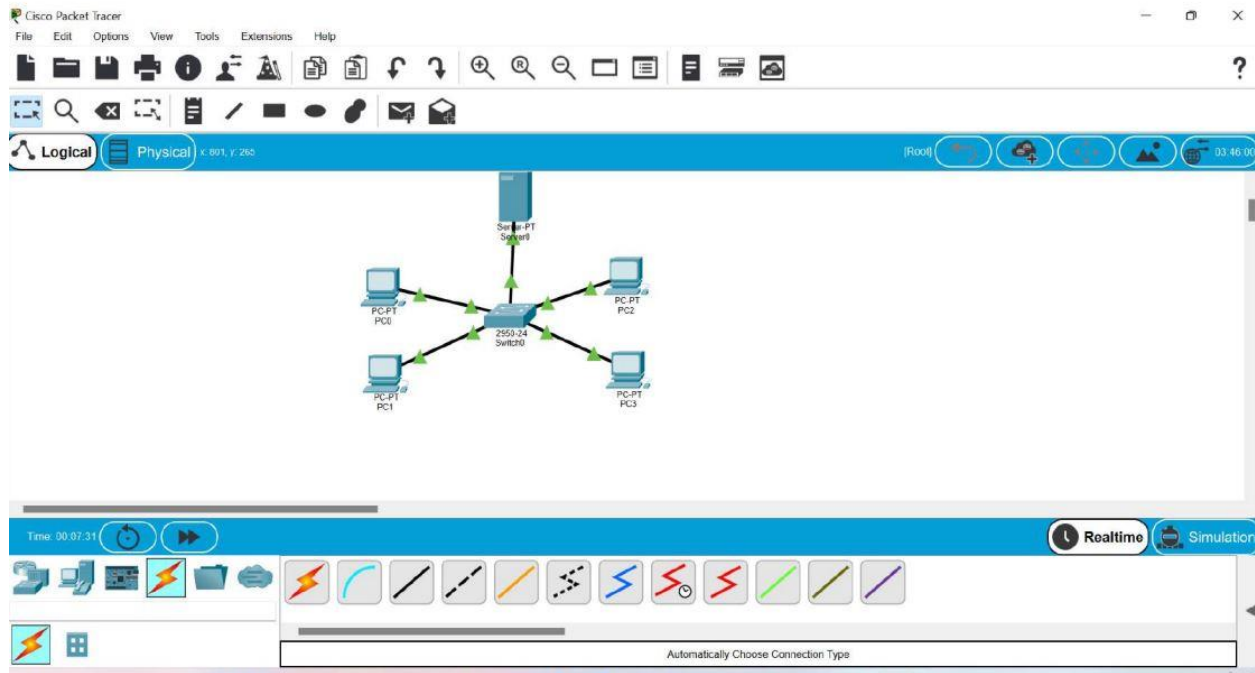
*DYNAMIC ROUTER



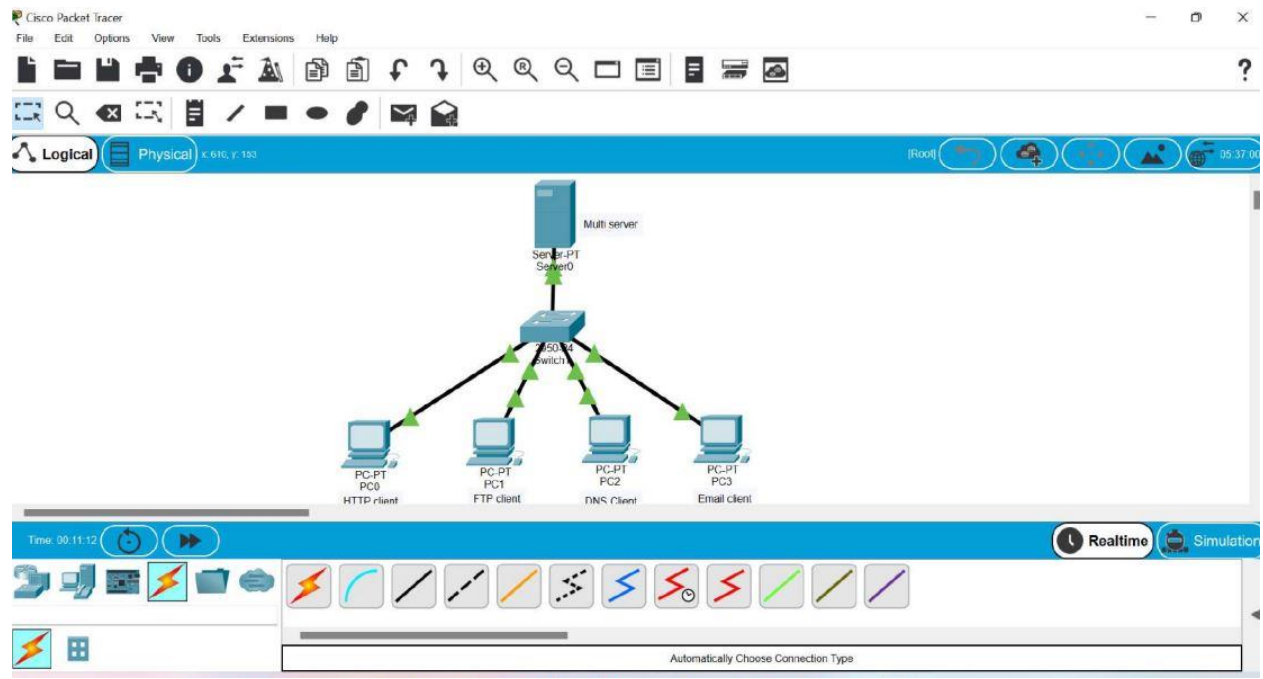
*SUBNETTING



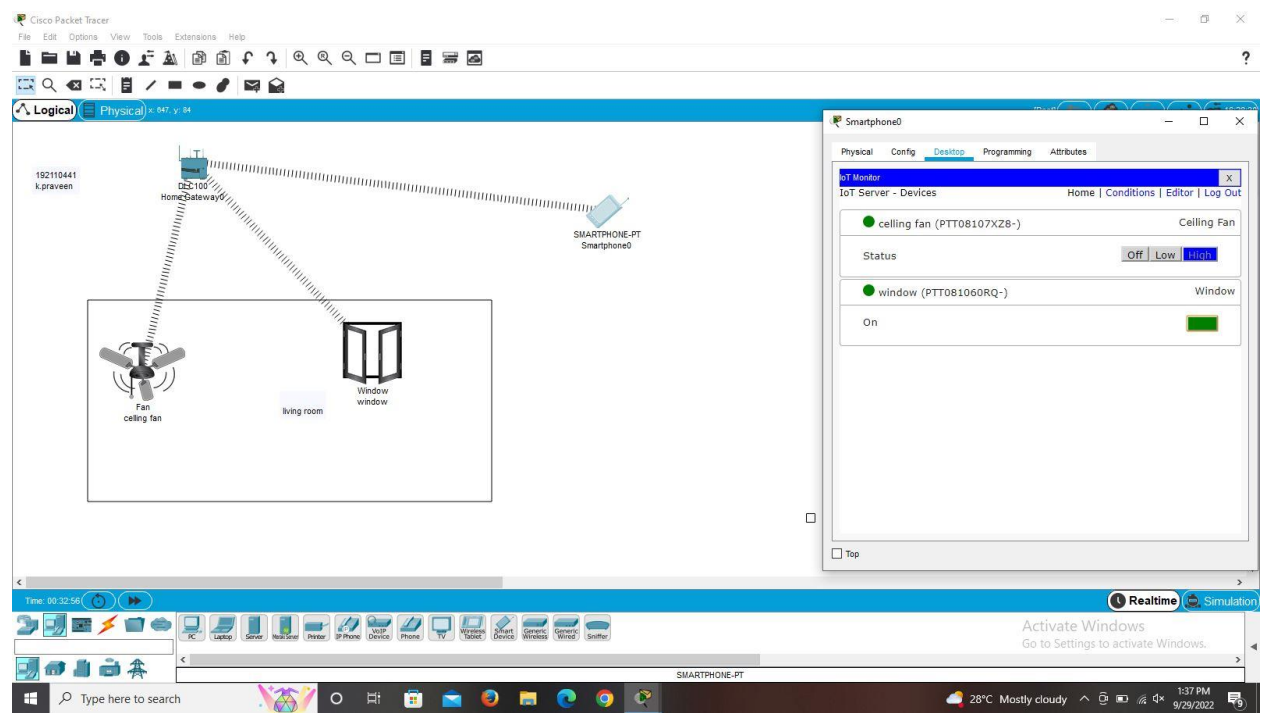
*Functionalities of TCP&UDP



*TCP UDP Exploration solution



*IOT based Smart Home



The screenshot displays the Cisco Packet Tracer interface. On the left, a network topology is visible with a central router connected to various IoT devices, including a light, a fan, a door, and a lock. The right side of the image shows the 'Tablet PC0' configuration window, specifically the 'Physical' tab. This window lists several IoT devices and their current status:

- IoT3 (PTT0810OITK-)**: Ceiling Fan. Status: Off | Low | **High**.
- IoT1 (PTT0810JH39-)**: Light. Status: Off | Dim | **On**.
- IoT5 (PTT0810OGT8-)**: Door. Status: Open | Lock | **Unlock**.
- IoT0 (PTT081074N8-)**: AC. Status: **On**.

The bottom of the Packet Tracer window shows a time display of 00:26:19 and various tool icons.

*Computer Lab

