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Improved Internal Gateway Routing Protocol (EIGRP) Interview questions and answers for both fresh and experience: - What is EIGRP? Ans :- Is the protocol routing the distance vector (or hybrid because it uses Link Advertisement via Hello Exchange packages) that provides a cycle of free networks and rapid convergence. The question is: What protocol does AD use? Ans :- Uses Protocol 88, AD-90 and Summary of Routes AD-5 External AD -170 : - What is the keepalive name of the package and what is its timer? Ans :- Hi Timers: 5s High bandwidth and 60s Low bandwidth; Dead-Timer 3 times Hi IP hi-interval eigrp AS sec ie p time retention eigrp AS sec :- EIGRP Features: Convergence, Bandwidth Use, Subnetting, Load Balancing, Multicasting, Summary.7 Ans:- Uses very low bandwidth to re-receive. By default, an automatic resume is included. Uses 224.0.0.10. Summary: ip summary of eigrp address (AS) :- What is the advertising distance, possible distance, successor, possible successor, passive route, active route.? Ans:- Adv Dist is a metric, according to a neighbor. From the neighbor to its interface, for example, Fea Dist - Historic minimum of the best metric -Successo - The next hop router currently used by this router is Fea succ - the next hop router that can be immediately used if the main (successor) fails -Fea Cond - a condition that states that the advertised distance should be less than the current likely distance. The question is: What are the EIGRP databases? Ans :- Neighborhood table - stores adjacencies to other routers -Topology table - entries for each destination -Routing table - sh ip rou :- EIGRP packages? - Ans :- Hello - Sends keepalive and discovers neighbors. Sent as a periodic multicast using 224.0.0.10 - Update- Advertising routes when changing occur - Ack - Confirmation when the update is received - Request - Request - Used for query updates from neighbors - Answer - Used to respond to query (unicast) :- What is stuck in active SIA? Ans: When the router did not receive a response to the request. In :- How is the metric calculated? Ans :- 256 (K1'BW/(K2'BW/ ((256-L) 0 K3'1 K4'0 K5'0 (256) (BW-D) Minimum bandwidth D - Delay L - Load R - Reliability- How to generalize? Ans :- #int fa/0/0 #ip eigrp (IP) (AD) (AD) :- How to make unequal cost balancing? Ans :- #variance x Multiplies the value of FD Introduction to EIGRP Interview Issues EIGRP is the latest distance vector routing protocol that applies to computer networks for automation for decision-making about routing and configuration. This protocol is developed by cisco systems as a registered algorithm available only to cisco routers. EIGRP Expands as Extended Protocol internal gateways. It's also called a scattered update algorithm to determine the shortest path. It is also measured as a hybrid routing protocol because it has the attributes of communication state routing protocols and a remote vector. EIGRP supports classless routing, route generalization, load balancing, load, VLSM. In this topic, we're going to learn about EIGRP Interview Matters. Some of the most important EIGRP interview questions that are often asked in interviews are: Part 1 - EIGRP Interview Issues (Basics) This first part covers the main EIGRP Interview Questions and Answers 1. Explain the different tables used in EIGRP? Answer: Three different tables used in EIGRP are the neighbor's table, the topology table, and the route table. The neighbor's table is filled with neighbors' relationships, which are tracked in the table based on EIGRP routing and convergence activity. The interface and address of the neighbor are entered and recorded as a fresh entrance to the neighbor's table, whenever a new neighbor is introduced. The table is checked for reliable and consistent delivery of packages. Topology Table: This is a reference table for routing network traffic for routers. This routing table in the automatic system is available, for example, the position of the router in this table. Each router is based on a routing protocol and manages the topology table for each network protocol you set up. Routes lead to the destination port based on the topology table. Route Table: Paths of a particular source and destination are stored in routing tables. Data in the network's topology is immediately placed around it. The main purpose of the routing protocols is to build a routing table path, Network ID, package cost, and package path and details of the details of the next jump are available in the routing table. 2. Explain the different types of packages in EIGRP? Answer: The various packages available in EIGRP are hi packages, upgrade packages, query packages, response packages, and ack packages. Hello, the packages support the neighborhood of EIGRP when it is discovered. If the router fails to receive the hi package within the intended time, the specific router will be declared dead. If a new neighbor package is found, updated packages are sent, so the topology table is updated with a nearby router. Upgrade packages are reliably passed in the same direction. Whenever the destination becomes active, the query packages are transferred. Query packets work as multi-ticket, and responses are often sent to a query to indicate the originator who does not need to go into active condition. If the destination becomes an active state, response packages are sent. The response packages are one-way to the origin of the request, and sending packages of replies is trustworthy. Act packages are used to find transfer status. If any hi packages are sent without information is seen as confirmation. The non-zero confirmation value is a single-frame address sent by acks. 3. What are the conditions for EIGRP neighbors? Answer: Source and destination routers must be in the same main subnet and must be configured to use the same k-values. The source and destination router must have an identical authentication configuration with face to each other in parallel. They don't have to be passive. Let's move on to the next EIGRP interview. 4. Is it necessary to use eigrp log-neighbor-changes when setting up eigrp? A: You need to use this command to easily identify and reduce troubleshooting times. 5. Does EIGRP support secondary addresses? Answer: It does not support secondary addresses. Because EIGRP always looks for data packets from its primary address, cisco advises you to set up routers when reviewing subnets from a subnet of similar primary addresses. Because routers don't make up eigrp neighbors on secondary networks. If any routers are not built to primary IP addresses, there may be problems with neighbors. 6. List the merits of EIGRP in relation to other routing protocols? Answer: It has an extended distance vector and routes of IP, ipx, AppleTalk and DECnet. It reacts in part when any routing changes occur in metrics such as bandwidth, reliability, load, hop count, maximum gear unit size, and transmission delay. The hi timer works with 1 second on Ethernet and sixty seconds on non-transmission. Part 2 - EIGRP Interview Questions and Answers (Advanced) Let's now take a look at the cutting-edge EIGRP Interview Questions 7. Defined the advertised distance? Answer: This is also called a reported distance, which is the distance between a given neighbor and a destination router. The feasible distance is measured from the current router to its destination. 8. Identify a successor? Answer: This is a routing path whose distance is minimal than possible distance, and it is also mentioned as a backup route. EIGRP will retain six possible successors in the top table. The successor with the best and most efficient metrics is located in the routing table. 9. Explain stuck inactive? Answer: EIGRP responds that a message stuck in an active message means that it has not received a response to its request. EIGRP transmits requests when any route is lost or if it cannot find a way, or if any path does not occur in the topology table. Stuck in a message is activated by two consecutive events if the path is erased and if it cannot be found. Let's move on to the next EIGRP interview. 10. Mention the type of authentication supported by EIGRP? Answer: EIGRP provides md5 authentication to route updates from routing protocols. The md5 key in each EIGRP package protects the injection of a false routing message from unapproved sources to prevent any malware attack 11. Identify a graceful disconnect? A: This is a special feature that supports the rapid convergence of networks. Using a graceful shutdown, the farewell message is broadcast by EIGRP routing to close the process. This is done to announce to allied peers about changes in 12. What is the maximum load of the path, balanced by EIGRP? Answer: Load balancing is the router's ability to distribute traffic evenly across the network with router ports with the same same and the value of the destination address. Load balancing maximizes the use of network segments to increase network bandwidth. EIGRP is working on a reliable transport protocol (RTP) for the transfer of packages. If the package you sent is not delivered, it has the ability to send again. It's just with four components of protocol-dependent module, RTP, neighbor detection and recovery model, and diffusion algorithm update. 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