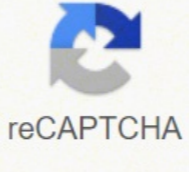
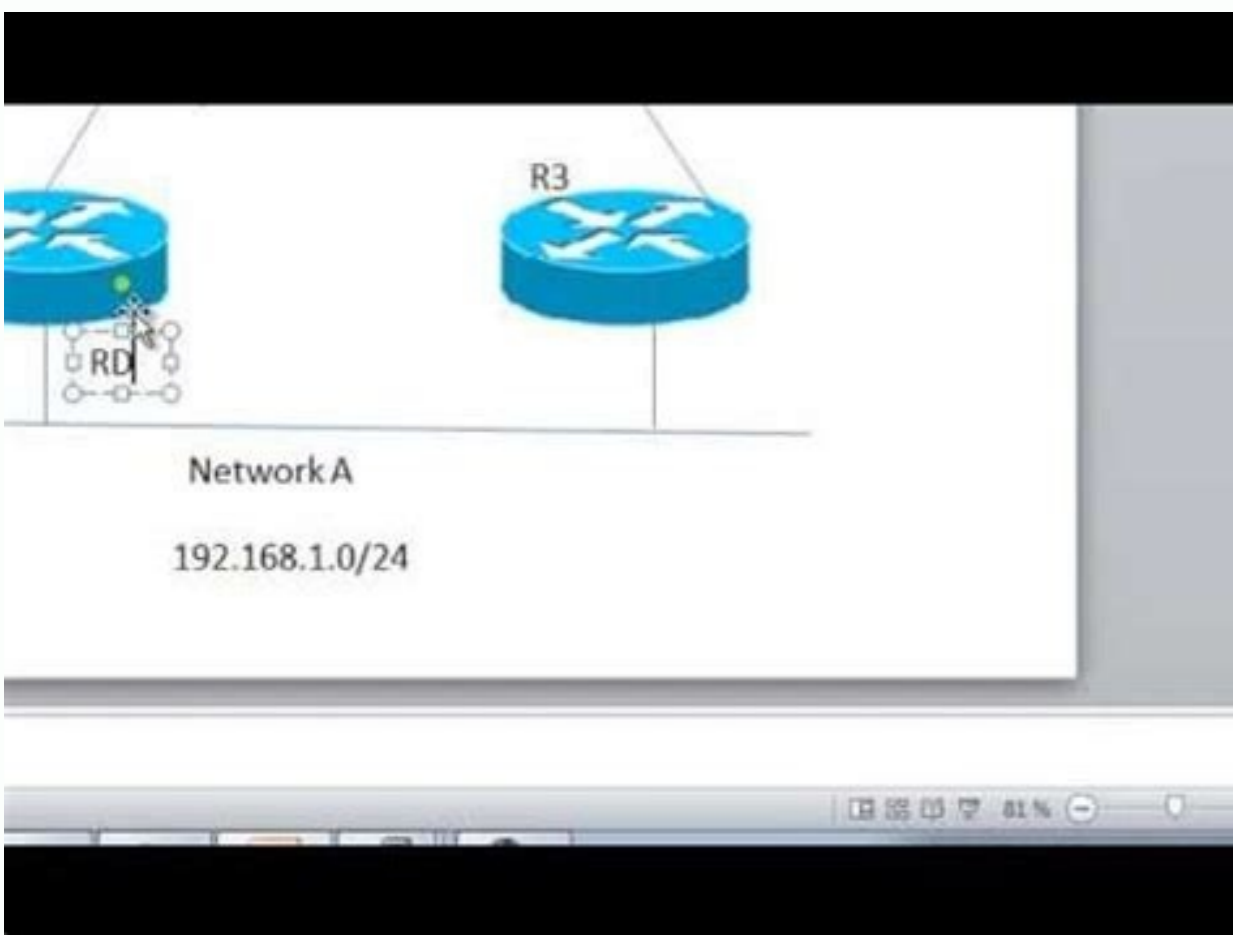
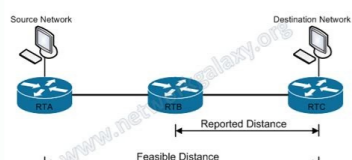




I'm not robot



**Open**



## Terminology

- Feasible distance – best metric from source to destination
- Reported distance – metric as advertised by neighbor
- Successor – One who advertises a reported distance
- Feasible successor – The neighbor whose RD < FD
- Feasibility condition: RD < FD

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### Feasible and reported distance

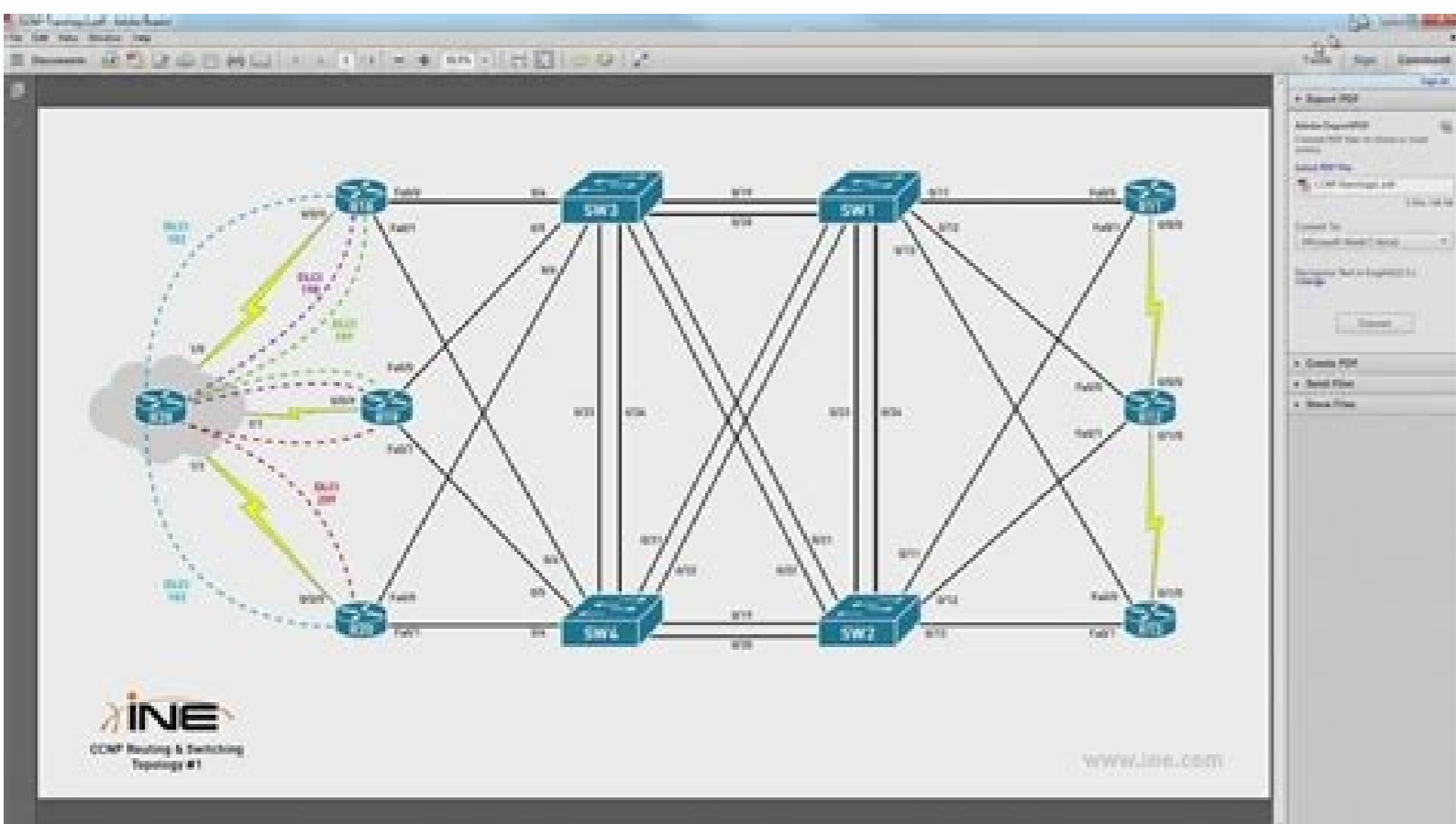
Two terms that you will often encounter when working with EIGRP are feasible and reported distance. Let's clarify these terms:

#### Feasible distance (FD)

- The metric of the best route to reach a network.
- That route will be listed in the routing table.

#### Reported distance (RD)

- The metric advertised by a neighboring router for a specific route.
- In other words, it is the metric of the route used by the neighboring router to reach the network.



How to calculate feasible distance in eigrp.

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EIGRP routers know only the routes advertised by directly adjacent neighbors because the EIGRP is a distance vector routing protocol. A simplified medication for each link is shown in red. Once the adjacent is restored, the R2 announces the route to 192.168.5.0/24 to R3 until the network converges fully. Because of previously detected malicious behaviors that originated on the network you are using, request the unlock for the site. The route through R5 meets the viability requirement because its reported distance of 1792 is less than the viable distance of the successor route of 3072. R5 announces a route to 192.168.5.0/24 for R3 and R4 with an informed distance of 512. The unless successor routes were highlighted. The viability requirement prevents the route from becoming a viable successor: the reported distance from the route of 6912 is greater than the factative distance of R3 of 3072. As observed earlier, the possible successor routes not They are used to refer the traffic. A viable successor, so it is not our best current path, but one that could be used in the case of our successful route disappear. Some instability in the network temporarily interrupted the adjacent between R2 and R3, so that R2 only learns from this route from R1. As it is preferred to avoid this query process, the EIGRP routers will storage backup routes, known as possible successors, when certain requirements are met. R4 # Show IP EIGRP Topology Table For AS (1) / ID (4.4.4.4) Codes: P - Passive, A - Active, U - Update, Q - Consultation, R - Response, R - Response status, S - Status Á Sia P 10.0.12.0/24, 1 successors, FD is 6400 via 10.0.34.3 (6400/3840), serial1 / 0 p 10.0.13.0/24, 1 successors, fd Á 5120 via 10.0.34.3 (5120/2560), serial1 / 0 p 10.0.23.0/24, 1 successors, FD is 5120 via 10.0.34.3 P 0/laires5 .odatenoC aiv 0652 Á DF .serosseccus 1 42/0.43.0.01 P 1/laires5 .odatenoC aiv 0821 Á DF .serosseccus 1 42/0.54.0.01 P 0/laires5 1 successors, FD is 3840 via 10.0.45.5 (3840/2560), Serial1/1 via 10.0.34.3 (5120/2560), Serial1/0 P 192.168.5.0/24, 1 successors, FD is 1792 via 10.0.45.5 (1792/512). Serial1/1 If we inspect the EIGRP topology table on R3, we see that it has two paths to reach 192.168.5.0/24: R3# show ip eigrp topology IP-EIGRP Topology Table for AS(1)/ID(3.3.3.3) Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply, r - reply Status, s - sia Status P 10.0.12.0/24, 2 successors, FD is 3840 via 10.0.13.1 (3840/1280), Serial1/0 via 10.0.23.2 (3840/1280), Serial1/1 P 10.0.13.0/24, 1 successors, FD is 2560 via Connected, Serial1/0 P 10.0.23.0/24, 1 successors, FD is 2560 via Connected, Serial1/1 P 10.0.45.0/24, 2 successors, FD is 3840 via 10.0.34.4 (3840/1280), Serial1/2 via 10.0.35.5 (3840/1280), Serial1/3 P 10.0.34.0/24, 1 successors, FD is 2560 via Connected, Serial1/2 P 10.0.35.0/24, 1 successors, FD is 3072 via 10.0.35.5 (3072/512), Serial1/3 v R5 anuncia 192.168.5.0/24 para R3, que por sua vez o anuncia para R1, que finalmente retransmite a rota para R2. Somente rotas sucessoras sÁo colocadas na tabela de roteamento: R3# mostra rota ip 192.168.5.0 Entrada de roteamento para 192.168.5.0/24 Conhecido via "eigrp 1", distÁncia 90, mÁ©trica 3072, tipo interno Redistribuindo via eigrp 1 Átima atualizaÁÁo de 10.0.35.5 em Serial1/3, 00:28:32 atrÁs Blocos Descritores de Roteamento: \* 10.0.35.5, a partir de 10.0.35.5, 00:28:32 atrÁs, via Serial1/3 A mÁ©trica de rota Á 3072, a contagem de traffic share Á 1 O atraso total Á 120 microssegundos, a largura de banda mÁnima Á 1544 Kbit Confiabilidade 255/255, MTU mÁnimo 1500 bytes Carregando 1/255, Hops 1 Para ilustrar como a condiÁÁo de viabilidade protege contra .Noitanitsed .Noitanitsed Taht OT Etuor Thereffid and EtaCol OT TPMetta at NI SSECORP GNIREUQ ETUOR and SETAITINI RETURE A, YGOLOPOT PRGY EHT MÖRF DVOUSTER SI Krownen Noitanitsed and Nehw.) 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