Configure the BGP according to the topology.

Advertise Loopback0 interface to the BGP table

AS 10 should follow the rules:

- Only R3 could initiate the TCP session
- All sessions should be build from Lo0 interface
- BGP peers should not advertise unnecessary route types
- Use the minimal number of command lines

AS 100 should follow the rules:

- R8 have to get the routes from R6 and advertise them to R7
- R7 have to get the routes from R5 and advertise them to R8
- R8 must accept routes from R7
- R7 must accept routes from R8
- R8 have to be in the transit path in terms of BGP
- All session should be authenticated with password “cisco123” (without quotes)

No route reflectors should be in AS 20 and AS 200

- For prefix 1.1.1.1/32, R9 has to be preferred exit point for AS 20
- For prefix 2.2.2.2/32, R16 has to be preferred exit point for AS 20
- AS 10 and AS 20 should not see 65500 in AS_PATH attribute for any update. Do not use route aggregation.
- R9 should filter any update that is originated from AS 200
    - Do not use prefix-list to solve this task
- For prefix 12.12.12.12/32, AS10 should use AS 200 as preferred exit point
    - Do not touch R3 and R4 to solve this task
- R14 should get only default route from it’s uplink
- Ensure that in case of R14’s misconfigure, R17 will not get any transit routes from AS 65500
- R17 should advertise default to R14 only if 1.1.1.1/32 is available