

24 DNS Resolver Testing

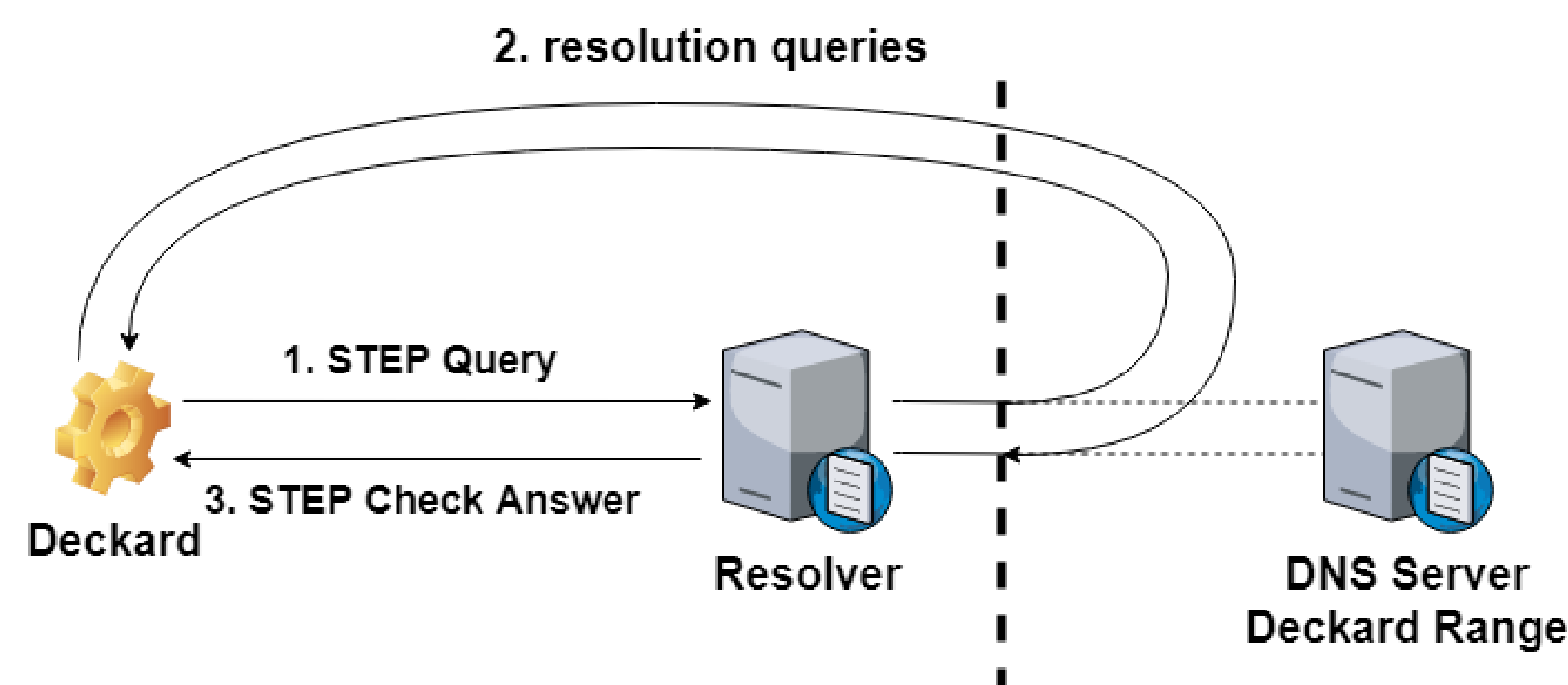
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Automated generating of scenarios for Deckard

- Capturing DNS traffic of a web page
- Create Deckard's scenarios based on recorded traffic
- Use created scenario for testing

How Deckard uses scenarios to test the resolver

- Sends query defined in the scenario
- Intercepts all communication the resolver attempts
- Responds with answers defined in the scenario
- Compares the answer Resolver gave with the one in the scenario



Application of generated scenarios for testing

- Compare behavior of different versions (test before release)
- Test resolvers behavior on real data in deterministic environment
- Potentially replace scenario handcrafting
- Potentially increase code coverage of testing with Deckard
- Designed for  by 