

# Report

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## Please give evidence that you have finished Tasks I and II

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All files in the directory `practice` (`./practice`), is the evidence that we did the whole works. We search many references to get the work done.

## please explain how you amplify the DNS response

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1. We set the `rd(recursive desired)` to 1 to enable recursive functionality.
2. We try many query types and choose the one which has the largest response. The result is `any` which is `0xff`.
3. We try many domain names and choose the one which has the best performance. The result is `us.org`.
4. We use extended dns to enlarge the dns response.

## please propose a solution that can defend against the DoS attack based on the DNS reflection

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1. Limit the packet from a specific source if it is too noisy.
2. Because of the identifiable structure of the DNS reflection, we can use regular expression filter to detect them.
3. Block some ports like UDP port 53.