# DNS based DDoS mitigation solution Schematic Diagram

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#### Architecture

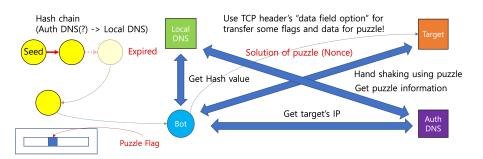


Figure 1: Architecture

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#### **Testbed**

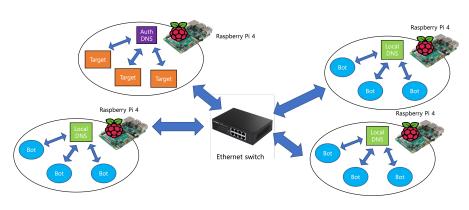


Figure 2: Testbed



Kernel

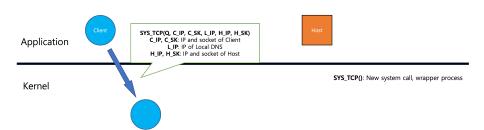


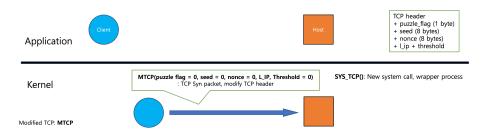


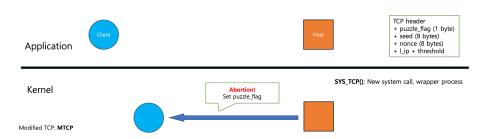
Set puzzle\_flag = 1!

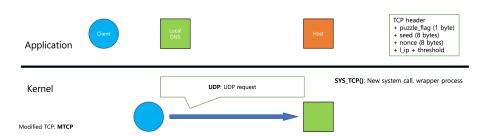
puzzle\_flag = 0: without puzzle puzzle\_flag > 0: difficulty of puzzle

Kernel



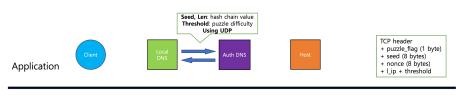








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Kernel

Modified TCP: MTCP

 $\ensuremath{\mathsf{SYS\_TCP()}}\xspace$  : New system call, wrapper process  $\ensuremath{\mathsf{SYS\_UDP1()}}\xspace$  : New system call





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