

Makes DNS request

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TCP breaks DNS request into numbered packets

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IP attaches “to” and “from” addresses to each DNS request packet

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DNS request packets are sent to local router through physical internet

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Received bits are assembled into DNS response packets

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IP reads and groups DNS response packets based on “from” address

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TCP puts DNS response packets in order and reassembles message

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Reads and handles DNS response

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Makes HTTP request

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TLS encrypts HTTP request (resulting in HTTPS request)

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TCP breaks HTTPS request into numbered packets

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IP attaches “to” and “from” addresses to each HTTPS request packet

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HTTPS request packets are sent to local router through physical internet

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Received bits are assembled into HTTPS response packets

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IP reads and groups HTTPS response packets based on “from” address

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TCP puts HTTPS response packets in order and reassembles message

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TLS decrypts HTTPS response

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Reads and handles HTTP response