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| HTTP 1 | HTTP 2 |
| Slower loading when it contains multiple resources like JavaScript, HTML, CSS due to its sequential nature. | Loading is faster when multiple resources are involved due to multiplexing and parallelism. |
| Without HPACK, metadata often includes numerous directives, increasing overhead. | HPACK compression improves data transmission efficiency, speeding up network communication, even without directives. |
| The server can only respond with one resource at a time, without additional responses fetched from other servers. | Supports multiplexing, allowing the server to respond with multiple resources fetched from different servers simultaneously. |
| Lack of server push capability means the server can't proactively send resources to the client before they're requested, potentially slowing down page loading. | Uses a single, multiplexed connection, allowing multiple requests and responses to occur simultaneously over the same connection, reducing latency and improving efficiency. |
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| Lack of server push capability means the server can't proactively send resources to the client before they're requested, potentially slowing down page loading | Supports header compression, which reduces the size of header information sent between client and server, resulting in faster communication. |