



OASIS by Onlight

Example 2: How Oasis handles outgoing traffic

1. A web browser on a work station inside the network makes a DNS request for www.abc.com
2. OASIS performs a DNS lookup over one of the ISP's connections chosen at random. For this example we will choose ISP3. If ISP3's connection is working, the answer to the DNS request is returned over ISP3's connection. (If the request could not be completed, OASIS would choose another ISP's connection until it received an answer for the DNS request or ran out of connections to try.)
3. OASIS returns the answer to the DNS request back to the internal web browser. OASIS remembers which connection was used to look up www.abc.com and uses ISP3's connection for this session, knowing it is working.
4. The web browser makes an HTTP request to www.abc.com
5. The HTTP request is sent by the web browser and forwarded over ISP3's connection by OASIS.
6. The Web server for www.abc.com receives the HTTP request and sends the data back over ISP3's connection from which it came.

Example 3: How OASIS works when an outage occurs

1. The outside user's web browser makes a DNS request for www.xyz.com
2. The Internet routes the DNS request over one of the connections chosen at random. If DNS4 is chosen, the request travels over ISP4's connection.
3. If ISP4 is down, the request to the DNS server on OASIS cannot be completed.
4. The DNS request will time out and the web browser makes another DNS request. Either DNS1, 2, or 3 will be used. For this example we will use DNS2.
5. Oasis receives the DNS request on ISP2's connection and, therefore, returns ISP2's IP address for the IP address for www.xyz.com
6. The outside user's browser performs a HTTP request over ISP2
7. OASIS receives the HTTP request on ISP2's connection and translates it to 10.0.0.1 using NAT
8. The web server sends the reply back to its gateway, which is OASIS.
9. Oasis knows it received the HTTP request over ISP2's connection, so when it receives the data from the web server, it sends it back to the web browser as if it came from ISP2's IP