



CCDC Inject

INJECT NAME	Debug Server Issue
INJECT ID	NETW13A

INJECT DESCRIPTION:

Users have been complaining about about a web-based application that frequently freezes for a period of time, then returns to normal functionality. The application support staff is blaming the network for being too slow or congested. One of the senior network staff members is suspicious that it may be application or server related and has written the following script to run on the some of the clients.

```
// Check to make sure that this is an HTTP transaction
if (Flow.I7proto !== 'HTTP') {
  return;
}

// The packet capture name, which includes the client and server IP addresses and port numbers
var pcapName = 'Zero Windows_' + Flow.client.ipaddr + ':' + Flow.client.port + '-' + Flow.server.ipaddr + ':' +
Flow.server.port;

// Initiate packet capture each time a zero window occurs on the client or the server
if (Flow.zeroWnd1 > 0 || Flow.zeroWnd2 > 0) {
  var opts = {
    maxPackets: 30, // Capture up to 30 packets
    maxPacketsLookback: 15 // Capture up to 15 lookback packets
  };
  Flow.captureStart(pcapName, opts);
  // Show capture activity in debug log
  debug('Start Zero PCAP: ' + pcapName);
}
```

What is this script looking for, and how would it highlight the underlying issue ? What is the suspected underlying issue ?

INJECT DELIVERABLE

Prepare a clearly written business memo that describes the condition that is being looked for, and what does it mean if that condition were to be found? Be specific with regard to the network protocol operation and the causes. If the condition were to be found does it point to a network capacity issue, or a server/application issue?