

Team: Team 3

Inject Number: 34

Inject Duration: 90 Minutes

Inject Start Date/Time: Sat, 04 Mar 2017 19:33:49 +0000

From: CIO

To: CISO and Security Staff

Subject: 003 Outsource telecom support - Make Raspberry Pi/ IoT accessible externally

CISO and Security Staff:

The Board of Directors has informed me that we have to make major budget cuts. I will be outsourcing our Telecommunication team. I understand that they currently maintain our systems internally using the Asterix/Linux PBX system on the Raspberry PI /IoT device. We will need to make sure this system is available externally for critical support functions. We unfortunately do not have the license or budget for more VPN accounts so we will have to be creative on how this will be secured.

Provide a screen shot of both the system available via an external address, the configuration to do so, and all of your steps to make this secure. This is not an optional request, so please be creative on how you plan to secure access to this system.

Please see the notes from the Networking Engineering Department to fulfill this request:

It has come to our attention that the Raspberry PI/ IOT device is not remotely accessible. Part of the problem is that its IP address is acquired via DHCP. Make the Raspberry PI/ IOT device accessible by completing the following steps:

Change the IP to a static address - 172.20.241.199/24.

Change the DNS server to your AD/DNS VM.

Create a NAT translation rule at the PA to translate 172.20.241.199 to 172.25.20+team#.199.

Verify the open ports on the IOT using the Win7 VM that is outside the Palo Alto.

As stated above the deliverable is a document verifying you did that includes: a screen shot showing access, a screen shot of the configuration, or an NMAP scan verifying it, and documented steps and/or screenshot of how it will be secured.

Thank you.

CIO