

# **Powerzio** **penetration test**

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# Summary

**01** Our methodology

**02** Timeline of the engagement

**03** Our findings

**04** Remediations

01

# Our methodology

## Discovery

Searching for machines inside of the network and started creating a small map of the network.

## Scanning

Scan each machine for different vulnerabilities and known exploits.

## Footprinting

Determine each service and the operating system running on the machines.

## Exploitation

Exploit the machine and gain access to potentially sensitive or trivial information.

## Reporting

Report the vulnerability found and how we where able to penetrate the machine and what knowledge we gained from the attack.

02

## Timeline of the engagement

Scanned the  
network

Downloaded  
public files

Cracked the  
pmanager.zip

Found CVE-  
2011-2523

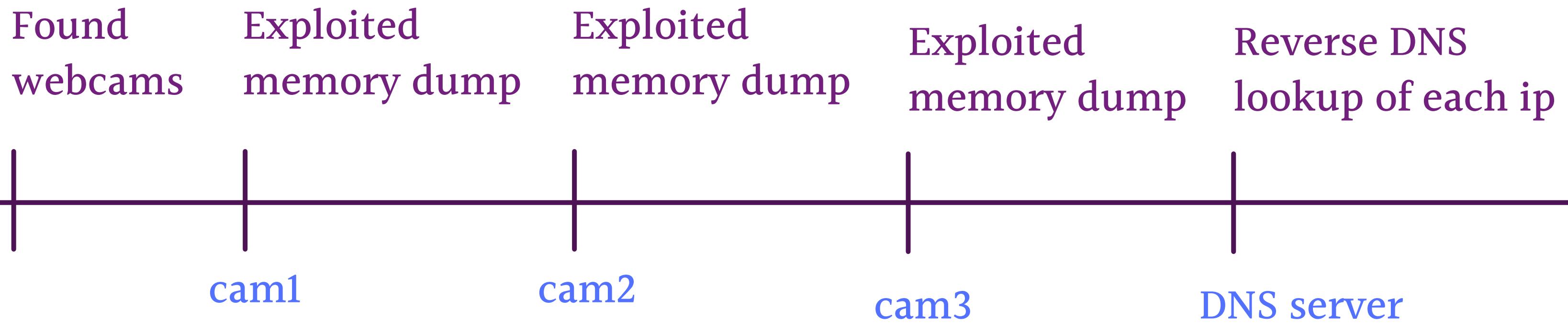
Pivoted scan of  
internal network

fileserver

fileserver

workstation

workstation



reverse  
pmanager

Exploited  
database

Generated all  
of user creds

Dump mqtt  
service

Remote code  
injection

Gained access to  
user machines

|  
pmanager

|  
bdd

|  
bdd

|  
mqtt

|  
thermostat

|  
lewis

Gained access to  
user machines

Created report

Created  
presentation

tserge

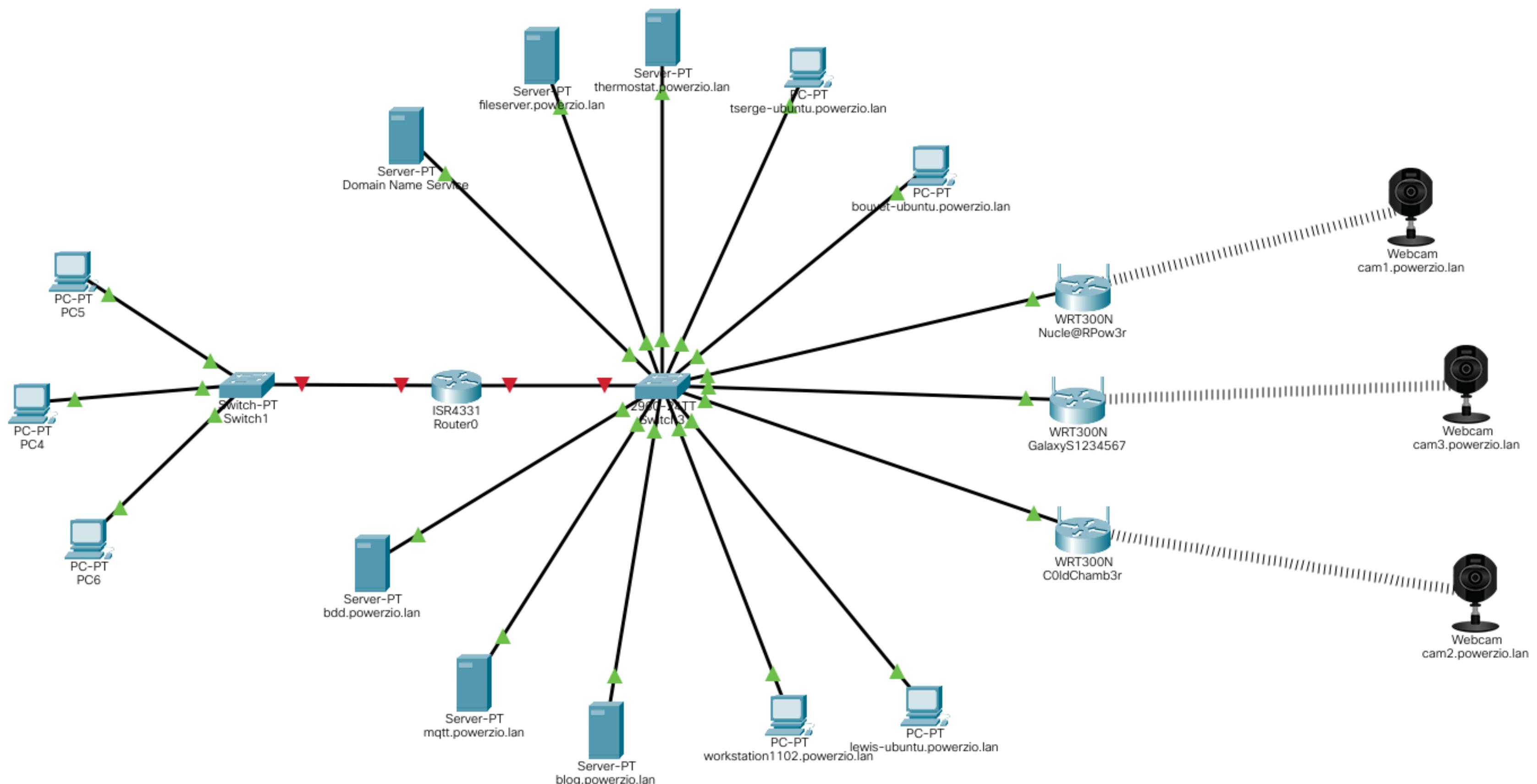
03

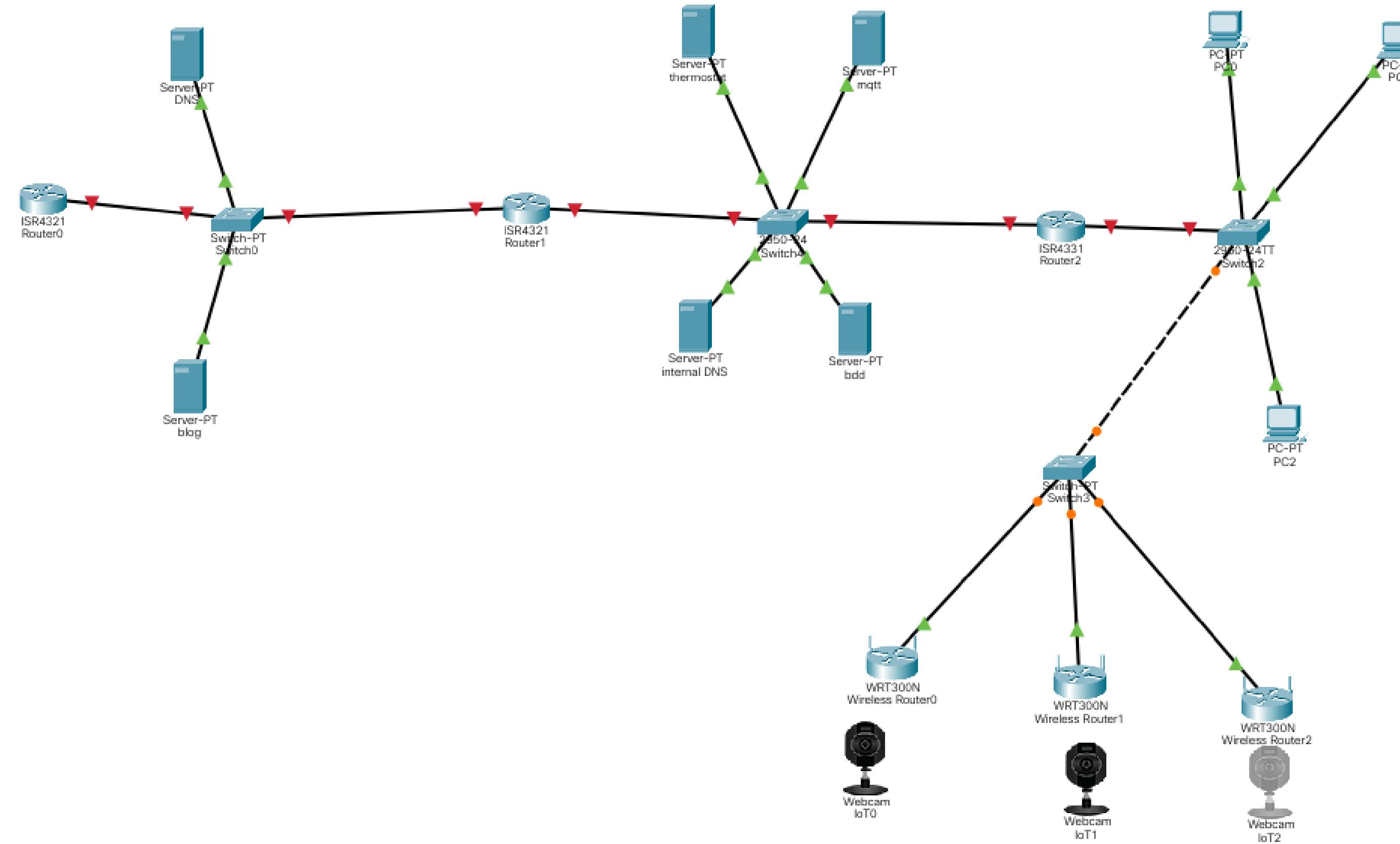
## Our findings

| Vulnerability                | Severity             | Location |
|------------------------------|----------------------|----------|
| Reverse DNS lookup           | <b>Informational</b> | Page 9   |
| CVE-2011-2523                | <b>Critical</b>      | Page 11  |
| Anonymous Loggin             | <b>Moderate</b>      | Page 14  |
| EDB-ID 41236                 | <b>High</b>          | Page 18  |
| Remote Code Execution        | <b>Critical</b>      | Page 21  |
| No Authentification          | <b>High</b>          | Page 23  |
| Insecure password generation | <b>High</b>          | Page 26  |
| No Authentification          | <b>High</b>          | Page 30  |
| CVE-2021-3156                | <b>High</b>          | Page 33  |

04

# Remediations





THANK YOU FOR LISTENING