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# ADVISORY SERVICE AND VMS

**TAKTACOM**

# INTRODUCTION

nowadays by expanding use of information technology and communication and complexity of the role of virtual space in society, we see growth of cyber threats and increasing from day to day to discover vulnerability in technology, equipment, operating systems and...

Due to the daily development of these vulnerabilities, large and small organizations will be influenced by serious cyber threats, so continuous preparation and continuous observation on cyber - security is inevitable. on the one hand, the necessity of huge amount of equipment and technology in organizations, and the other hand discovering vulnerabilities that make 100 vulnerabilities in a month(which 10% of these vulnerabilities could important) if we haven't knowlegment of vulnerabilities, we couldn't eliminate the vulnerability in the first step, attackers can easily find a way for penetrate to our network.

According to SecurityWeek research in vulnerability field,68% of attacks come from vulnerabilities at the technology level,which cab be prevented by continuous monitoring and eliminated befor it penetrates.

## IMPORTANCE FOR ORGANIZATION

The issue of multiplicity of technology and its various versions in organization become important when we don't know anything about when and where the vulnerability happened and how critical was the vulnerability.

On average , each organization has more than 10 critical vulnerability in the month

# Advisory service

Nowadays one of the most important topics in the world of security is the CSIRT. A Computer Security Incident Response Team (CSIRT) is an organization that receives reports of security breaches, conducts analyses of the reports and responds to the senders. A CSIRT may be an established group or an ad hoc assembly.

In large organizations, there are a lot of equipment and technologies and services that involve complementary vulnerabilities. In the same way, we need a proper way to find and solve these vulnerabilities. So Security Advisory is responsible to fill this gap in organizations. We offer neutral advice to create a comprehensive strategy that helps you better prevent, detect and respond to threats and reduce risk. If any new vulnerability is introduced in the world of technology, contacted items will be notified in the least possible time and a proper solution will be provided according to the organization's requirements in order to detect and resolve the vulnerability in the shortest possible time.

Enterprises need sound threat, vulnerability and risk management built on reliable security intelligence to stay ahead in a dynamic risk environment. We draw on their deep experience to develop or review existing vendor risk, risk management, or vulnerability management programs for our clients. It executes technical-based engagements to help organization's identify associated risks in infrastructure, mobile, applications, or IoT. Building robust vulnerability management and testing programs enable better risk visibility, allowing security leaders to strike a better balance between risk mitigation and business enablement.

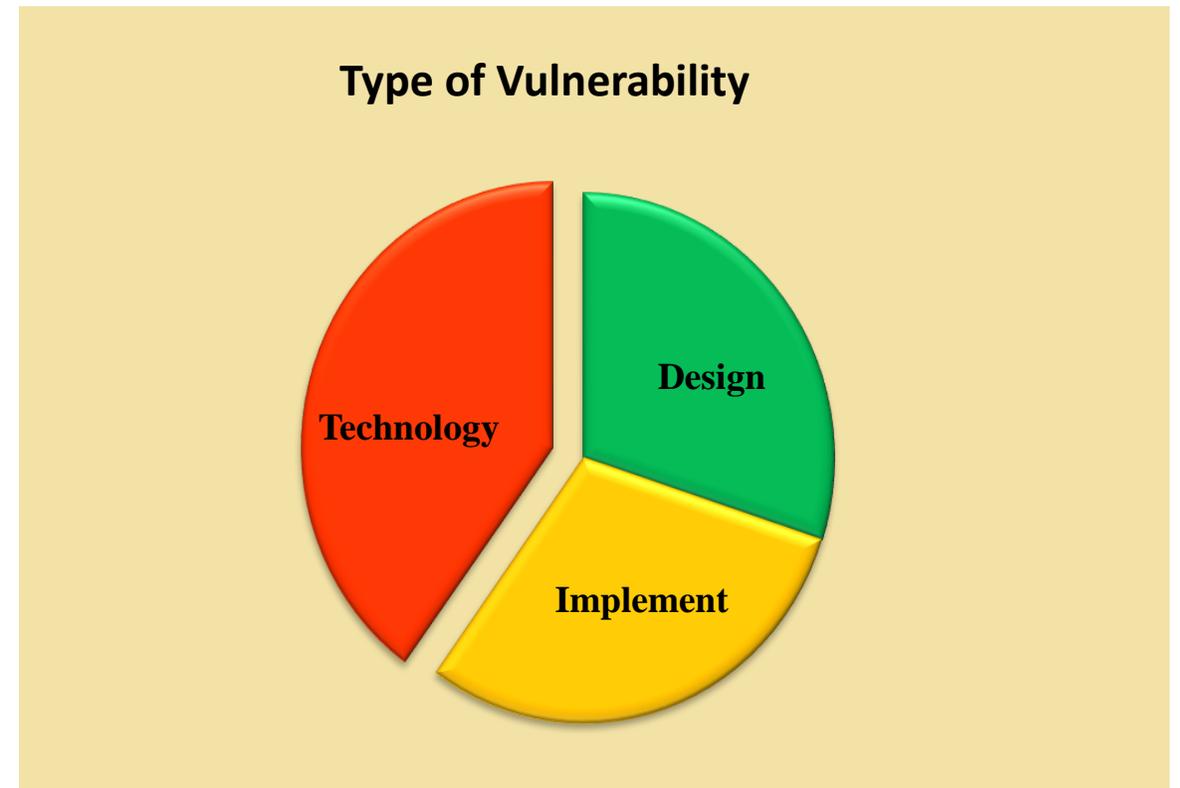
# VARIETY OF VULNERABILITY

**Vulnerabilities are divided into three categories:**

**Design:** This vulnerability occurs in designing such as mistakes in network architecture, mistakes in software architecture and ...This type of vulnerability is visibility with White Test

**Implement:** This kind of vulnerability is usually due to user mistakes that are related to the design and implementation of technologies. For example, application vulnerabilities and programming errors are one of these vulnerabilities. These vulnerabilities are detectable by penetration testing

**Technology:** This model of vulnerability is the result of the use of various technologies, which is usually very high, The most commonly encountered typical PHP, mysql, and microsoft vulnerabilities are typical examples that we are facing with. These type of vulnerabilities are detectable by Advisory.



# Variety of vulnerability in technology



# DAILY REQUIREMENT – MONITORING

Reduce the occurrence probability



Reduce occurrence Impact from vulnerability



Reduced patch upgrade time and installation



uninterrupted monitoring

Prevent from attackers penetrating

Prevent from information leakage

Prevent from create access

The most important factor in reducing the organization's impact is identifying and timely handling of hazards



# DEFINITIONS

## ❖ **vulnerability(with CVE specific identifier):**

Any weakness in design or implementation and an error that causes an unexpected and unpleasant event and endangers the security of the system.

## ❖ **Recommendations:**

For each identified vulnerability, a recommendation is prepared and submitted by the vendor.

## ❖ **solutions:**

Explained solutions in the Recommendation are different to the type of vulnerability and equipment

Provide patches , Work around and Regular updates

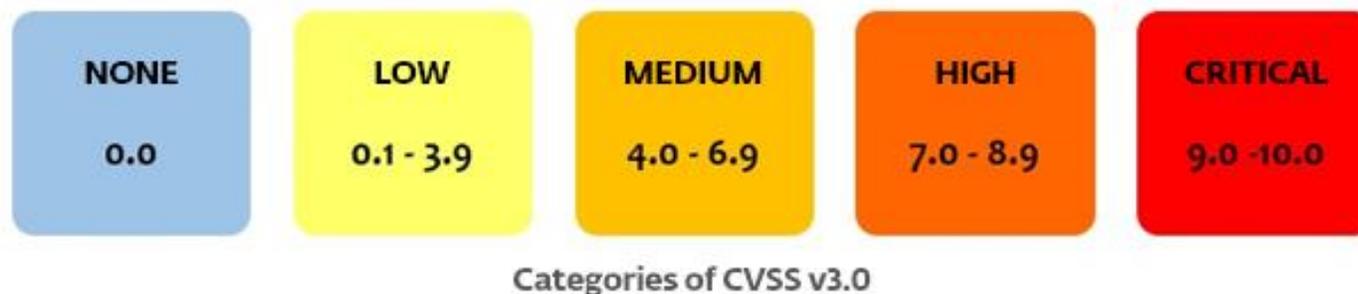


<https://cve.mitre.org/>



# COMMON VULNERABILITY SCORING SYSTEM(CVSS)

- Attacker access level
- Attacker access vector
- Access complexity
- Abuse ability
- Impact level of damage in organization
- Solution level

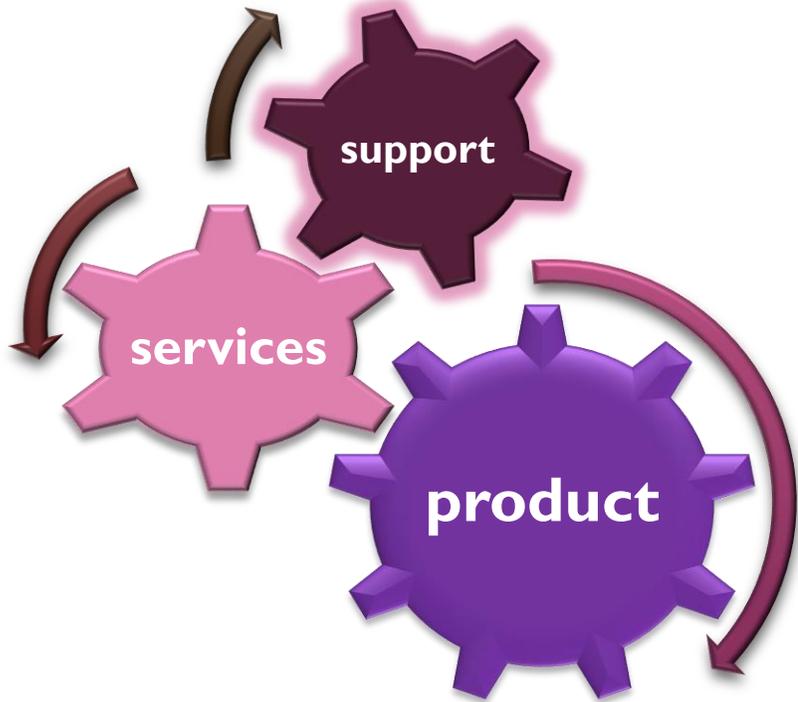


CVSS Score	<b>9.3</b>
Confidentiality Impact	<b>Complete</b> (There is total information disclosure, resulting in all system files being revealed.)
Integrity Impact	<b>Complete</b> (There is a total compromise of system integrity. There is a complete loss of system protection, resulting in the entire system being compromised.)
Availability Impact	<b>Complete</b> (There is a total shutdown of the affected resource. The attacker can render the resource completely unavailable.)
Access Complexity	<b>Medium</b> (The access conditions are somewhat specialized. Some preconditions must be satisfied to exploit)
Authentication	<b>Not required</b> (Authentication is not required to exploit the vulnerability.)
Gained Access	<b>None</b>
Vulnerability Type(s)	Execute Code

# REVISION RECOMMENDATION APPROACH

- 1. Manually**( Check all vulnerabilities and recommendations by human resources)
  - mistakes
  - Need for human resources 24 hours
- 2. Automatic approach**(Production of tools to observe vulnerabilities and recommendations.)
  - False Positive
  - Lack of intelligence and ability to analyze
  - Different ways to handle vulnerabilities in different organizations
- 3. Combinatorial**(Applying appropriate tools along with Expert human resources)
  - Absence Disadvantages that we said

# OUR SUGGESTED SOLOUTIONS



## ❑ **Product**

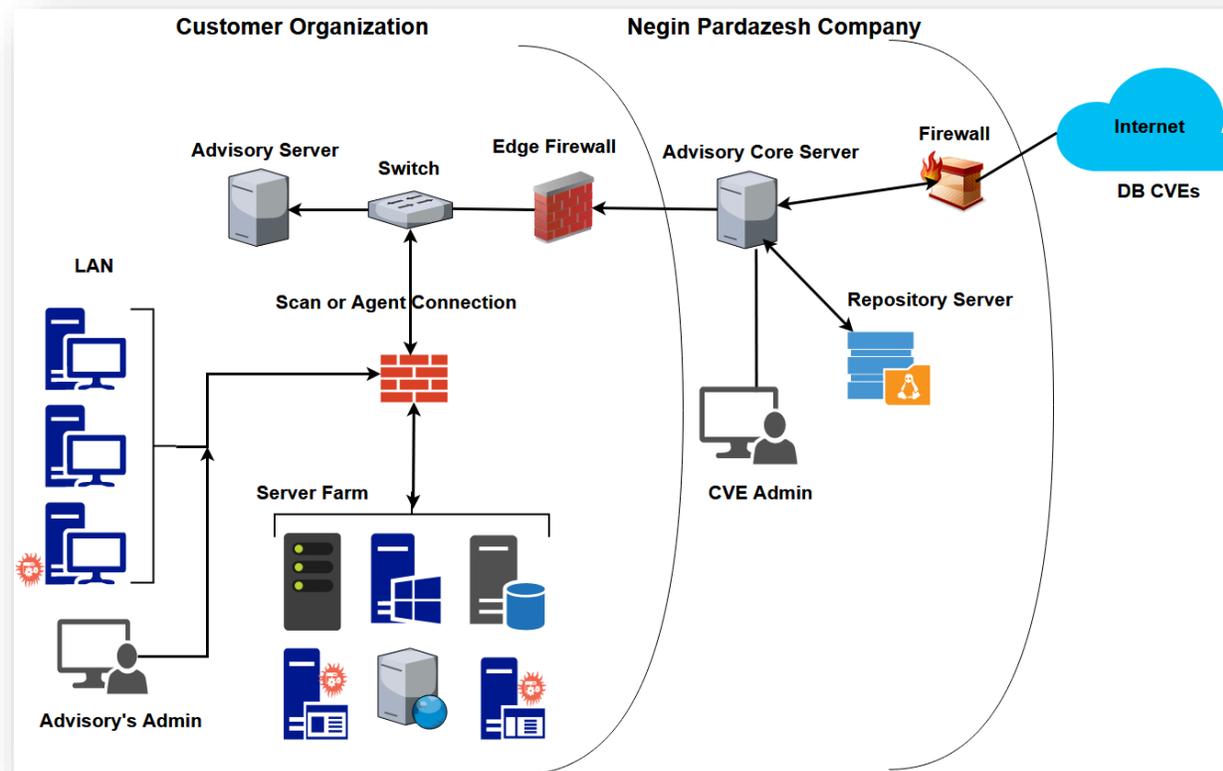
- In this part, an updated and equipped software in the case of vulnerabilities will be used and all critical information will be recorded in this software.

## ❑ **Services**

- In this section, an expert team is monitored for all system activities, and the team is continuously monitoring critical services to record and report vulnerabilities.

# ARCHITECTURE OF PRODUCT DEPLOYMENT IN THE NETWORK

This product has two server, one of them is in customer organization and the other one is in our company. there is One-way communication between our server and customer organization`s server , the information will be sent to it and no data will gain from the organization.



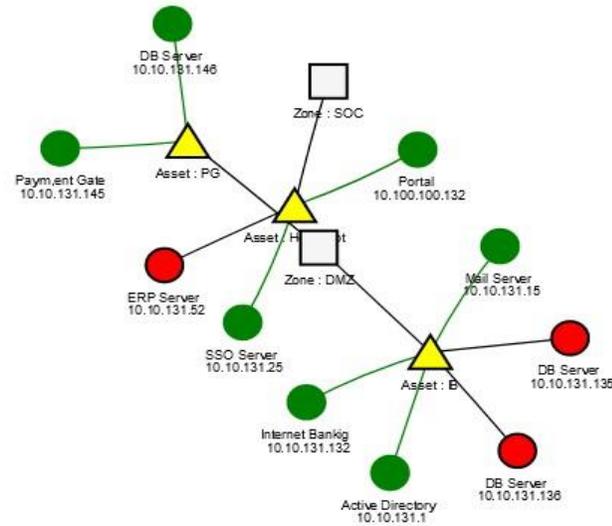
# PRODUCT FEATURES

- immediate warning of discovered organization`s vulnerabilities
- Show the time of creating and fixing vulnerabilities Provide all CVEs related to the organization in real time and monitor them Identify and categorize vulnerabilities based on the type and classification defined in the organization
- Provide solution to solve identified vulnerabilities
- The possibility of using technologies in three ways : User, Automatic Scan, Agent
- Warning about vulnerabilities with Email and SMS
- Determining the severity of vulnerability and its impact on the organization
- Managing devices by web console
- Ability to communicate with Syslog server to present output to SOC
- Analytical report by the organization based on massive data
- Ability to add asset
- Ability to automatic asset scan
- Provide latest security news

# VIEW OF THE PRODUCT

Negin VMS

- Home
- Zone Mgr
- Asset Mgr
- Servers Mgr
- Applicatinos Mgr
- Vulnerabilities Mgr
- News Mgr
- Users Mgr
- notification Mgr



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## News

### Microsoft Exchnage Server

Microsoft Exchange Server 2016 CU5 and Microsoft Exchange Server 2016 CU5 allow a spoofing vulnerability due to the way Outlook Web Access (OWA) validates web requests, aka "Microsoft Exchange Spoofing Vulnerability".

[Read More](#)

### PHP Scripts Mall Slickdeals

Cross Site Scripting (XSS) exists in PHP Scripts Mall Slickdeals / DealNews / Groupon Clone Script 3.0.2 via a User Profile Field parameter.

[Read More](#)

# PROVIDED SERVICE WITH PRODUCT



- ✓ Providing a suitable solution to reduce vulnerability risks
- ✓ Monitor and scan system and equipment vulnerabilities
- ✓ Supervision product performance
- ✓ Managing and configuring the product tailored to the organization's requirements
- ✓ Update asset list
- ✓ Notify and edit recommendation
- ✓ Add technologies in the software