SEGUITY.

Blue Team Level 1 Certification (Standard)

- 5 Topi
- - 6 Topics | 1 Quiz
- Management Principles
 - 4 Topics | 1 Quiz

PHISHING ANALYSIS DOMAIN

- PA1) Introduction to Emails and Phishing
 - 7 Topics | 1 Quiz
- PA2) Types of Phishing Emails
 - 10 Topics | 2 Quizzes
- PA3) Tactics and Techniques Used
 - 12 Topics | 2 Quizzes
- A PA4) Investigating a Phishing Email
 - 8 Topics | 2 Quizzes
- PA5) Analysing URLs, Attachments, and
 - 8 Topics | 1 Quiz
- C PA6) Taking Defensive Actions
 - 12 Topics | 1 Quiz
- O PA7) Report Writing
 - 7 Topics | 1 Quiz
- PA8) Phishing Response Challenge
 - 3 Topics | 1 Quiz

THREAT INTELLIGENCE DOMAIN

- TI1) Introduction to Threat Intelligence
 - 7 Topics
- TI2) Threat Actors & APTs
 - 6 Topics 2 Quizzes
- TI3) Operational Threat Intelligence
 - 7 Topics | 1 Quiz
- TI4) Tactical Threat Intelligence
 - 7 Topics 1 Quiz
- TI5) Strategic Threat Intelligence
 - 5 Topics | 1 Quiz
- TI6) Malware and Global Campaigns
 - 6 Topics | 1 Quiz

DIGITAL FORENSICS DOMAIN

- DF1) Introduction to Digital Forensics
 - 5 Topics
- OF2) Forensics Fundamentals
 - 10 Topics | 5 Quizzes
- DF3) Digital Evidence Collection
- 8 Topics | 1 Quiz
- O DF4) Windows Investigations
 - 3 Topics 3 Quizzes
- O DF5) Linux Investigations
- 4 Topics | 2 Quizzes
- O DF6) Volatility
- 3 Topics | 1 Quiz
- OF7) Autopsy
- 4 Topics | 1 Quiz

SECURITY INCORMATION AND EVENT

Syslog

Blue Team Level 1 Certification (Standard) > SI2) Logging > Syslog

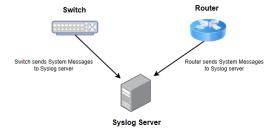
IN PROGRESS



Actions on many devices generate events that are logged locally for analysis, such as shutdowns, start-ups, processes, and connections. When you have a large number of devices, it becomes impractical to review these locally. System Logging Protocol (Syslog) is a standard protocol used to convey event or system log notification messages to a designated server, known as a Syslog server. The Syslog server centralizes data collection from various devices for analysis, review, and intervention. The Syslog protocol is outlined by RFC 5424.

The protocol can be enabled on most network equipment such as switches, routers and firewalls, and even endpoint devices. Syslog is available on Unix and Linux based systems and many web servers. Windows systems use their own by default as opposed to Syslog (Windows Event Manager – we'll cover this in the next lesson), these can also be forwarded to a central server, via third-party utilities or other configurations using the Syslog protocol.

Syslog uses **UDP 514** by default; TCP **514** can be used for more reliability; however, certain stricter security standards require that logs are securely transferred, so **TCP 6514** is used as a de facto standard, although not official. Take note that Syslog does not offer authentication or encryption built-in, so it may be susceptible to attacks.



Complete network monitoring requires using multiple tools. Syslog is an important pillar in network monitoring because it ensures that events occurring without a dramatic effect do not fall through the cracks. Best practice is to use a software that combines all the tools to always have an overview of what is happening in the network.

SYSLOG MESSAGES

 $A \, Syslog \, message \, is \, made \, of \, three \, components; a \, Priority \, Value \, (PRI), a \, Header, \, and \, a \, Message. \, We \, will \, explain \, these \, three \, parts \, below.$

Priority Value (PRI)

The Priority Value is derived from both the **Facility Code** and the **Severity Level**. We can use the simple equation to calculate PRI:

(facility code * 8) + Severity value = PRI.

Below are the Facility Code and Severity Level tables.

Facility Code

. acmy coac			
Number	Facility description		
0	Kernel messages		
1	1 User-level messages		

MANAGEMENT DOMAIN
SI1) Introduction to SIEM
7 Topics 1 Quiz
O SI2) Logging
6 Topics 2 Quizzes
O Section Introduction, Logging
O What is Logging?
O Syslog
O Windows Event Logs
Lab) Event Log Analysis
O Sysmon
O Other Logs
Activity) End of Section Review, Logging
S13) Aggregation
2 Topics 1 Quiz
SI4) Correlation
6 Topics 1 Quiz
SI5) Using Splunk
5 Topics 2 Quizzes
INCIDENT RESPONSE DOMAIN
IR1) Introduction to Incident Response
8 Topics 1 Quiz
IR2) Preparation Phase
10 Topics 2 Quizzes
IR3) Detection and Analysis Phase
7 Topics 4 Quizzes
 IR4) Containment, Eradication, and Recovery Phase
5 Topics 1 Quiz
IR5) Lessons Learned and Reporting
● 7 Topics
○ IR6) MITRE ATT&CK
13 Topics 2 Quizzes
BTL1 EXAM
Exam Preparation

Using RDP and SSH

How to Start Your Exam

2	Mail System		
3	System Daemons		
4	Security/Authorization Messages		
5	Messages generated by syslog		
6	Line Printer Subsystem		
7	Network News Subsystem		
8	UUCP Subsystem		
9	Clock Daemon		
10	Security/Authorization Messages		
11	FTP Daemon		
12	NTP Subsystem		
13	Log Audit		
14	Log Alert		
15	Clock Daemon		
16 - 23	Local Use 0 - 7		

Severity Levels

Value	Severity	Keyword	Description	Condition
0	Emergency	emerg	System is unusable	A panic condition.
1	Alert	alert	Action must be taken immediately	A condition that should be corrected immediately, such as a corrupted system database.
2	Critical	crit	Critical conditions	Hard device errors.
3	Error	err	Error conditions	
4	Warning	warning	Warning conditions	
5	Notice	notice	Normal but significant conditions	Conditions that are not error conditions, but that may require special handling.
6	Informational	info	Informational messages	
7	Debug	debug	Debug-level messages	Messages that contain information normally of use only when debugging a program.

Header

This contains identifying information, such as; Timestamp, Hostname, Application name, Message ID. This is useful for understanding where the system message has come from.

Message

This could be simple readable text or only machine-readable. The content of the message is not defined by the protocol only the format is. Each message sent to the Syslog server has two labels associated with it that make the message easier to handle. The first label describes the function (facility) of the application that generated it. For $example, mail\ servers\ typically\ log\ using\ the\ \textbf{mail}\ facility.\ The\ second\ label\ specifies\ the\ severity\ level.\ After\ these$ messages will be stored.

< Previous Topic

Mark Complete Back to Lesson Next Topic >

