

Making Cybersecurity Work Roles More Attractive with Music: Aligning Music (NOT KU's) to Cyber

Stan Mierzwa, POC Kean University

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## Abstract



 Inspired by a Cloud Security Alliance write-up by the presenter, this session will bring about a fun and interactive Lightning Talk on the topic of introducing music that aligns with the varied work roles and tasks in cybersecurity activities. This Lightning Talk will utilize and play some minor snippets of music (as loud as possible) that correspond to the National Initiative for Cybersecurity Education (NICE) Workforce Framework. The session will be helpful in possibly inspiring participants to consider ways to better and further relate to those students who may be "on the fence" in considering the cybersecurity workforce. Music has the potential to inspire and generate energy that may not have been present previously. As we continue to work towards the challenge of recruiting and educating the next generation of cybersecurity professionals, perhaps it is time to think differently, and use such resources as music! Content for this presentation will be pulled from the article below, authored by the proposed speaker.

#### CAE IN CYBERSECURITY COMMUNITY

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## Inspiration

For Fun - Aligning or Putting Music to the Varieties of Efforts, Tasks, Work Roles, and Functions in Cybersecurity



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## Align with NICE Framework

NICE Category	Music Genre	Artist Example
Securely Provision	Soft Rock	Eagles
Operate & Maintain	Rap	Wu-Tang Clan
Oversee & Govern	Rhythm & Blues	Boyz II Men
Protect & Defend	Heavy Metal	Iron Maiden
Analyze	Classical	Itzhak Perlman
Operate & Collect	Jazz	Louis Armstrong
Investigate	Movie Score	Movie - Invictus

Table 1. NICE Workforce Framework Categories (source: Stein, et al., 2017).

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Power of Music CAE NO COMMUNITY

 Music has the massive power to provide immense inspiration and energy for work roles. Including a variety of tools, together with music, can help to improve creative thinking of students (Guan, 2021).



#### • DEFENSE

- Patching
- Genre: Hip-hop
- Artist: OutKast ("Hey Ya!")

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### • DEFENSE

- Identify Unused Attack Surface Entities (Turn off!)
- Genre: Rock and Roll
- Artists: Twisted Sister ("We're Not Gonna Take It")





#### • DEFENSE

- 3<sup>rd</sup> Party Provider Access
- Genre: TV Shows
- Artists: Theme from Miami Vice



### • RECOVER

- Creation of an Incident Command Team
- Genre: Heavy Metal
- Artist: Judas Priest ("Breaking The Law")





### • RECOVER

- Recovery Preparations
- Genre: Rock to Light Rock
- Artist: Eagles ("In The City")





### • RECOVER

Incident Response

- Genre: K-Pop
- Artist: KTS (OK let's use "Gangham Style")





#### RECOVER

- *Recovery Processes and Procedures*
- Genre: Rhythm and Blues
- Artist: Otis Redding ("These Arms of Mine" and "Stand By Me")







### • RECOVER

- Activation of Disaster Recovery
- Genre: Country
- Artist: Tammy Wynette ("Stand By Your")

## Limitations



• As may be expected, many may read this write-up and **not agree** with the music choices to map to the cybersecurity tasks and roles (SAY WHAT?). This should be expected since taste in music can certainly vary. However, it can be expected and anticipated that many readers will come up with their own lists.



## Thank You

• Thank You!

## References

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