# The Cybersecurity Readiness Podcast Series

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| **Episode Title** | Developing Resilient and Secure Mission Critical Facilities (Data Centers) |
| **Podcast Series** | The Cybersecurity Readiness Podcast Series<br>https://www.cybersecurityreadinesspodcast.com/ |
| **Host and Producer** | Dave Chatterjee, Ph.D.<br>https://dchatte.com |
| **Guest** | Spiros Liolis, Chief Technologist and Managing Consultant, EYP Mission Critical Facilities, Part of Ramboll |
| **Summary Pitch** | Developing and maintaining resilient and secure data centers is a huge part of cybersecurity readiness. In this episode, **Spiros Liolis, Chief Technologist and Managing Consultant, EYP Mission Critical Facilities, Part of Ramboll,** and I, discuss the challenges and best practices of creating and maintaining state-of-the-art data centers. |
| **Time Stamps** | 00:02 -- Introduction<br>00:49 -- Setting the Stage and Context for the Discussion<br>01:54 -- Guest's Professional Highlights<br>02:56 -- Overview of Data Center Resiliency<br>05:41 -- Criticality of Data Centers<br>07:53 -- Key Elements of a Resilient Data Center<br>12:06 -- Build Your Own or Co-locate<br>15:00 -- Assessing the Effectiveness of a Data Center |

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| | 19:32 -- Significance of Simulated Exercises/Tabletop Exercises<br><br>21:46 -- Importance of On-Site Visits<br><br>23:56 -- Technical, Commercial and Operational Due Diligence<br><br>26:17 -- Adaptive Design<br><br>28:32 -- Data Center Facility Locations<br><br>30:15 -- Best Practices & Final Thoughts |
| **Memorable Spiros Liolis Quotes/Statements** | "Everything we do today, as professionals and as consumers, relies heavily on data centers."<br><br>"There's a cloud of course, but nothing up there, 35,000 feet above the ground, is hosting servers. The cloud is practically data centers on Earth, right."<br><br>"What do we mean by secure and resilient data centers? will refer to the ability of essential data center infrastructure to withstand and recover from disruptions and ensure their continued operations."<br><br>"When we talk about potential threats, we need to think of them in terms of geological, meteorological, accidental, or even intentional risks. These are primarily the risk types we talk about when it comes to data center resiliency."<br><br>"The moment you power up a data center, you practically cannot shut it down."<br><br>"So the resiliency of a data center must consider how to build enough redundancy by design and by implementation into these data centers."<br><br>"So our methodology is to look at the different risk factors that may have an impact on the facility itself, whether it is your own, or whether |

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| | it is being hosted; you need to evaluate, and measure the impact of different risks and these are geological risks, meteorological risks and human risks, whether accidental or unintentional."<br><br>"Nothing beats an on-site visit to check a data center's resiliency."<br><br>"So the hybrid design is really all about building the necessary critical infrastructure that capitalizes on multiple sources of energy."<br><br>"Education awareness is absolutely paramount. And that is probably one of our faults as well, data centers today are considered to be the naughty neighbors. I mean, they say, Oh, they're energy consuming, they take our water, they take our power; we as an industry need to educate our communities, we need to tell them what is it that we do. And of course, we need to make sure that we build them in a sustainable way, we'll use renewables, we will become community friendly. All of that must happen.” |