

Accelerating CMMC Compliance in the Cloud



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Speakers



Ted Steffan
Amazon Web Services (AWS)



Patrick Hannah
CloudHesive



Noël Vestal
PreVeil

Compliance Challenges

- Must protect CUI. DFARS 7012/ NIST 800-171 requires it
- Institutions – either Higher Ed or DIB must know the flow of CUI
- Can seek help from:
 - CMMC Ecosystem
 - External service providers
 - MSPs
 - CSPs
 - Can be like an Ikea box without instructions
- But **ULTIMATELY** the **INSTITUTION IS RESPONSIBLE** for their compliance program

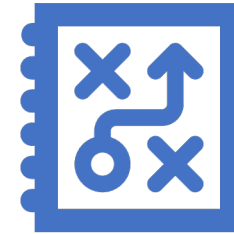


Case Study Overview



Customer

Top 10 University in the U.S.
Enrollment of over 60,000 students
Research expenditure of 300M+ for FY 2023



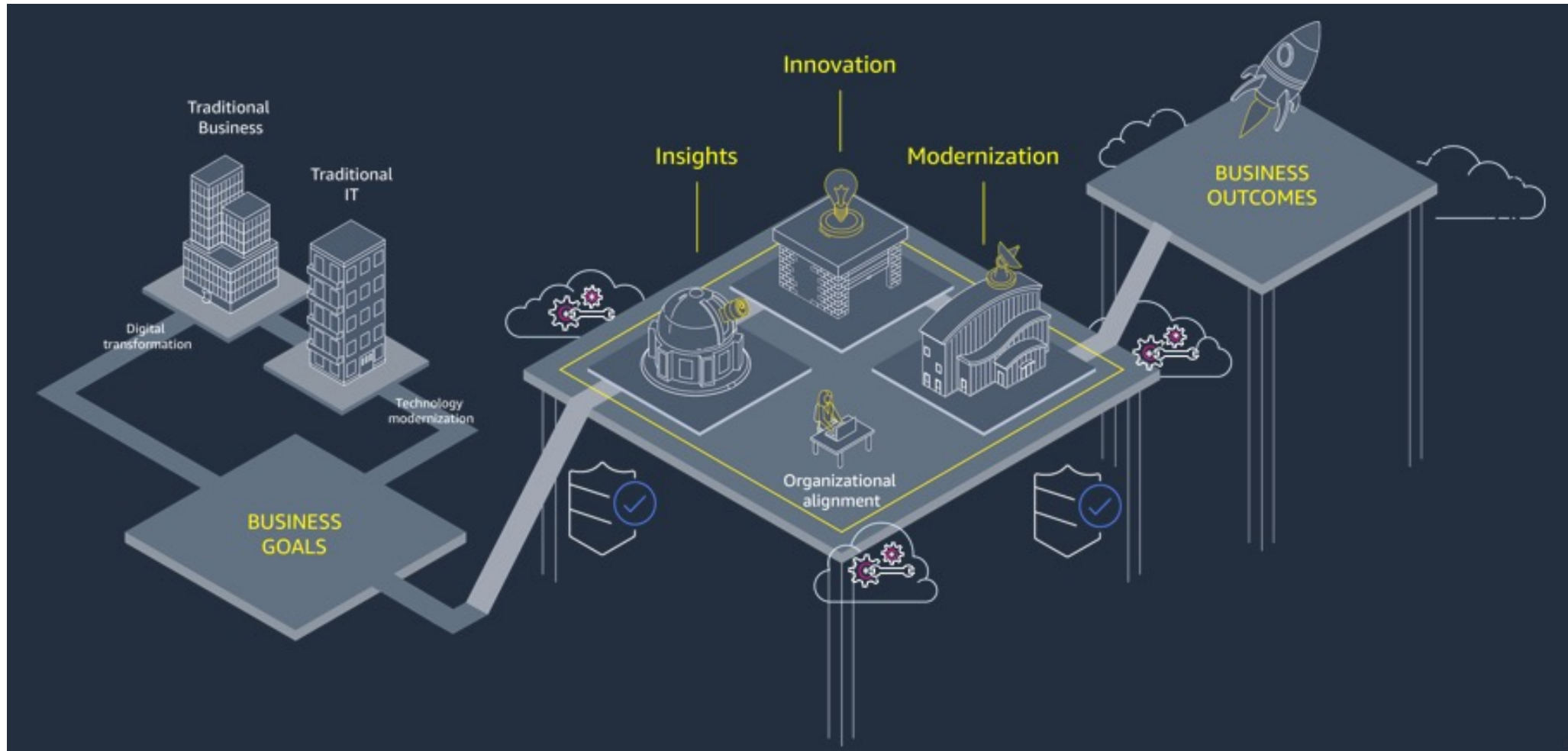
Challenge

The University has a large project budget, funded by the DoD
To maintain funding needed to demonstrate CMMC compliance
Also needed to lay the groundwork for Secure Research Computing (SRC) Enclaves

Amazon Web Services

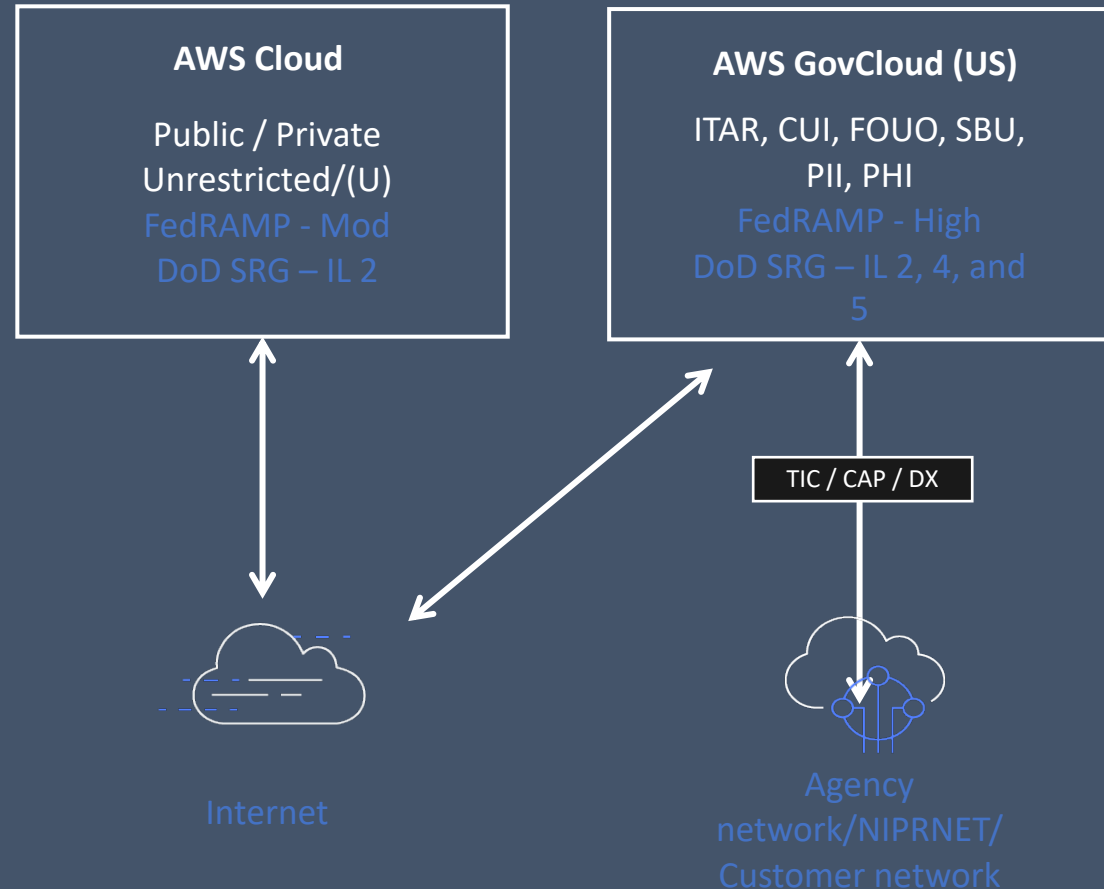


Why is on-premises security traditionally challenging?

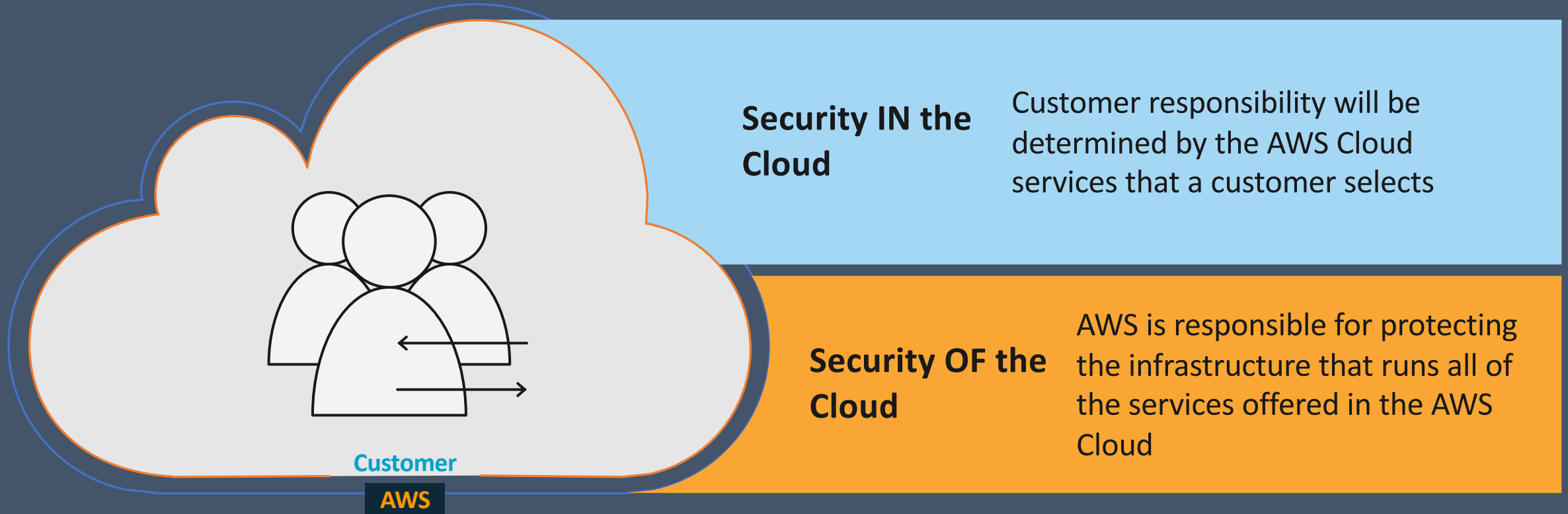


AWS CONUS Regional Infrastructure

Enables US government agencies, technology partners, and integrators managing Controlled Unclassified Information (CUI) and sensitive data to modernize and innovate in the cloud



Shared responsibility model

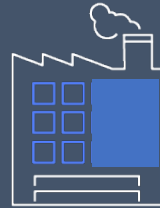


Industry CMMC Compliance Strategies

One CMMC Level certification across the entire company



CMMC environment/boundary separation from other business systems



CMMC Level 1 across company
Level 2 or 3 for specific business areas



Level
1



Level
2



Level
3

Develop CMMC compliant environment for subcontractors



CMMC Desktop as a Service / VDI environment across user base





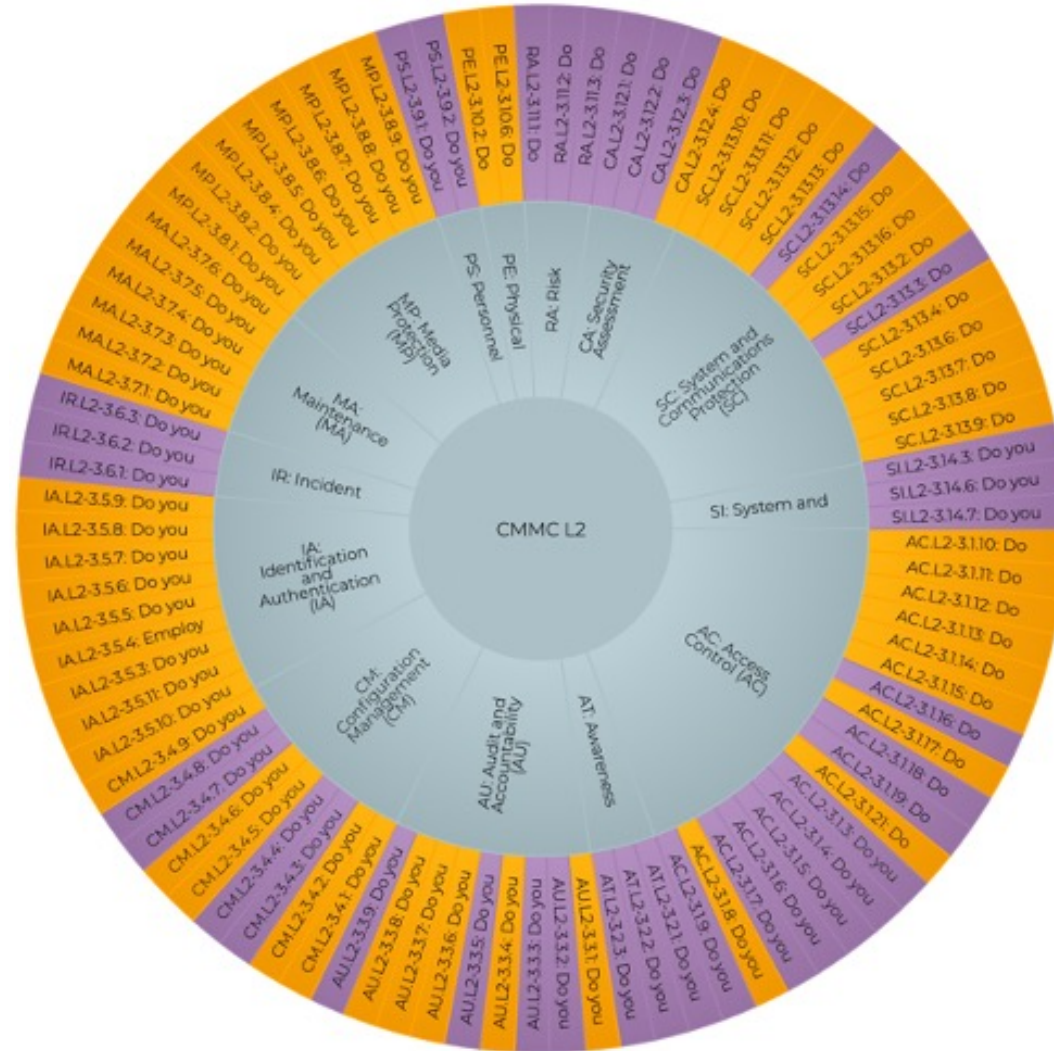
CloudHesive

Why CloudHesive?

- CloudHesive is an early adopter in this space, both in offering cloud-based virtual desktop environments (VDIs) and being one of the first RPOs
- CloudHesive has a track record of success - taking one of our C3PAO customers from inception, through their DIBCAC Assessment and now supporting their ongoing compliance needs
- In supporting organizations spanning C3PAOs to contractors to Universities, we understand that our customers need purpose-fit solutions, guidance around the assessment process and approaches that are flexible enough to evolve as their world changes - our packaged offer provides speed to market with Amazon Workspaces and Preveil while considering these nuances
- The University had attempted to address CMMC compliant with internal/on premises resources, as well as working with other CSPs and CSP partners prior to our engagement but had found their previous approaches lacking, fragmented and difficult to administer



Organizations Have a Solution to their Challenge



- Domain
- Cloud Provider
- Customer
- Shared

93 Entries (including sub-entries: 93)



Approach

- Initial focus on CMMC utilizing AWS' virtual desktop solution to create a mechanism for users to securely access and process data and PreVeil for users to securely receive and transmit data to authorized parties outside of the solution without over-reliance on their desktop or infrastructure hardware
- With PreVeil, we are able to reduce or eliminate dependencies on added Cloud Service Providers or costlier Cloud Service Provider licenses, by utilizing existing E-Mail platforms and providing an integrated File Transfer Solution. This results in reduced implementation and management costs as well as reduced implementation timelines
- Utilizing a virtual desktop-based approach allows us to reduce dependency on end-user devices and transit infrastructure, with the reduced dependency on these services and with the reduction of Cloud Service Providers and other added third-party components, complexity in control and policy administration and ongoing compliance is also reduced



Results

- With this approach The University now has a fully managed, end-to-end solution that reduces the challenges in achieving CMMC Certification
- At the same time, this solution provides users access to the same tools they are already familiar with and eliminating the burden in maintaining physical devices and infrastructure for these users
- It also provides the foundational capabilities to deploy a Self-Service Research portal, which The University intends to pursue and make available to thousands of university researchers and their partners in every major school (Medicine, Engineering/Computing, Business, Communications)



PREVEIL



What is PreVeil?

- End-to-end encryption for email and file storage. Easy to implement. Scalable. Affordable. Available for Mac/ PC, mobile, browser
- Leader in CMMC, DFARS and NIST 800-171. Support 102/ 110; Meet FIPS, FedRAMP, c-g
- Compliance bundle includes our technology, SSP, POAM, assessor guides, security whitepapers, and access to the PreVeil Compliance Team
- To date, PreVeil supports over 800 contractors, higher education institutions as part of their compliance solution for themselves and/ or supply chain

Why the University Chose PreVeil

- Challenges that University faced
- PreVeil's ease of use and ease of functionality. Makes training for organizations straightforward.
- Integrates with systems you are used to such as Outlook, Gmail; Windows Explorer, MacFinder. Also available on mobile and browser.
- PreVeil also has a proven methodology for compliance

Better Together

- PreVeil has built strong partnerships with multiple companies in the cybersecurity and CMMC spaces to ensure that we can offer the most effective compliance solutions to our customers.
- Value of PreVeil partnership
 - AWS storing PreVeil data
 - CloudHesive's VDI accessible solution
 - PreVeil storing and transmitting CUI and FCI

Contact Us

- Ted Steffan
- steffat@aws.com



- Patrick Hannah
- patrick.hannah@cloudhensive.com



- Noël Vestal
- compliance@preveil.com

