



# Can I Put [the Government's] Data in the Cloud? Should I?

Jim Goepel

General Counsel
Continuous Compliance LLC
JGoepel@FutureFeed.co

7/ FutureFeed



#### **About Me**

- General Counsel and Director of Education for Continuous Compliance LLC dba FutureFeed (<a href="https://FutureFeed.co">https://FutureFeed.co</a>)
- Provisional CMMC Instructor (PI), Certified CMMC Assessor (CCA), Certified CMMC Professional (CCP)
- Founding Director of the CMMC Accreditation Body (Cyber AB) (Prev.)
  - Created and taught the original RP training program
  - Board Treasurer
- Co-Founder of the CMMC Information Institute
- Author
  - The CMMC Everything I Need to Know Guide (available from <a href="https://FutureFeed.co/Everything">https://FutureFeed.co/Everything</a>)
  - 2 books on Controlled Unclassified Information (https://CUlInformed.com)
  - 2 books on cybersecurity law (Co-author)
  - Certified CMMC Professional (CCP) curriculum (Co-author)
- Adjunct Faculty at RIT; former Adjunct Professor at Drexel University
- Expert Witness in Government Contract Cybersecurity Cases
- JD and LLM George Mason University
  - Advisor to many government contractors including Unisys and JHU/APL
- BSECE Drexel University
  - Designed satellite test equipment and processes
  - Systems Administrator and Developer for the US Congress (House of Representatives)























## Bottom Line Up Front:

- Leveraging cloud-based resources can significantly reduce your IT and cyber maintenance burden.
- <u>ALL</u> non-public government information has safeguarding requirements.
- You can outsource the responsibility, but not the accountability.
- Need to carefully select your cloud service provider and ensure that they understand and commit to meeting the unique issues government contractors face.
- Selecting a FedRAMP authorized service makes things easier, but it isn't a panacea.
- FedRAMP equivalency is a hot topic with some potential speedbumps for contractors.

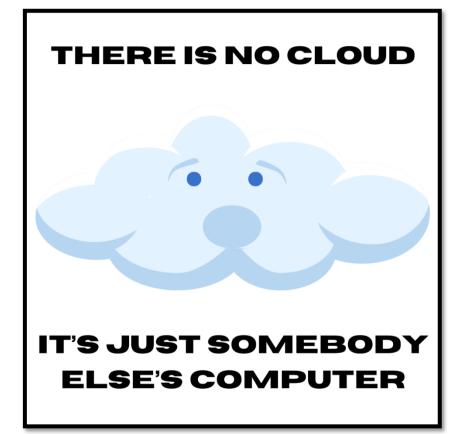








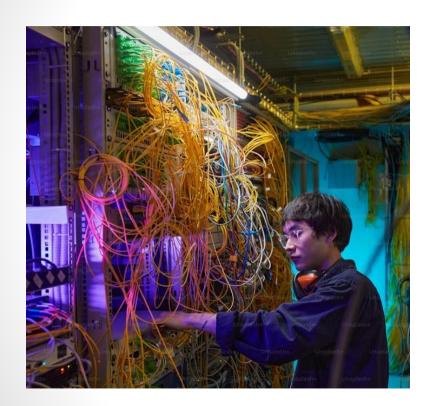
#### What is Cloud Computing? (Simplified)







#### What is Cloud Computing?



"Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction."

- NIST SP 800-145





### **Cloud Computing Deployment Models**

- Private Cloud infrastructure is provisioned for exclusive use by a single organization comprising multiple consumers (e.g., business units). It may be owned, managed, and operated by the organization, a third party, or some combination of them, and it may exist on or off premises.
- Community Cloud The cloud infrastructure is provisioned for exclusive use by a specific community of consumers from organizations that have shared concerns (e.g., mission, security requirements, policy, and compliance considerations). It may be owned, managed, and operated by one or more of the organizations in the community, a third party, or some combination of them, and it may exist on or off premises.

- Public Cloud The cloud infrastructure is provisioned for open use by the general public. It may be owned, managed, and operated by a business, academic, or government organization, or some combination of them. It exists on the premises of the cloud provider.
- Hybrid Cloud The cloud infrastructure is a composition of two or more distinct cloud infrastructures (private, community, or public) that remain unique entities, but are bound together by standardized or proprietary technology that enables data and application portability (e.g., cloud bursting for load balancing between clouds).





#### Most Common Cloud Computing Model for SMBs

## **Public Cloud**

#### Advantages:

- Rapid deployment
- Low/\$0 Capex
- Utility-based pricing (only pay for what you need)

#### Examples:

- Microsoft 365
- Microsoft Azure
- Google Workspace
- Salesforce.com
- Amazon Web Services
- QuickBooks Online
- Canva
- ChatGPT





#### **Cloud Service Models**

- Infrastructure as a Service (laaS) The capability provided to the consumer is to provision processing, storage, networks, and other fundamental computing resources where the consumer is able to deploy and run arbitrary software, which can include operating systems and applications. The consumer does not manage or control the underlying cloud infrastructure but has control over operating systems, storage, and deployed applications; and possibly limited control of select networking components (e.g., host firewalls).
  - e.g.: Microsoft Azure, Amazon Web Services EC2, Google Cloud
- **Platform as a Service (PaaS)** The capability provided to the consumer is to deploy onto the cloud infrastructure consumer-created or acquired applications created using programming languages, libraries, services, and tools supported by the provider. The consumer does not manage or control the underlying cloud infrastructure including network, servers, operating systems, or storage, but has control over the deployed applications and possibly configuration settings for the application-hosting environment.
  - e.g.: Salesforce.com, Google App Engine, Heroku
- **Software as a Service (SaaS)** The capability provided to the consumer is to use the provider's applications running on a cloud infrastructure2. The applications are accessible from various client devices through either a thin client interface, such as a web browser (e.g., web-based email), or a program interface. The consumer does not manage or control the underlying cloud infrastructure including network, servers, operating systems, storage, or even individual application capabilities, with the possible exception of limited user-specific application configuration settings.
  - e.g.: FutureFeed.co, Microsoft 365, Google Workspace, QuickBooks Online, Canva, ChatGPT





### Many Companies Use a Variety of Cloud Offerings



Vendors are increasingly incorporating SaaS offerings as part of their products.

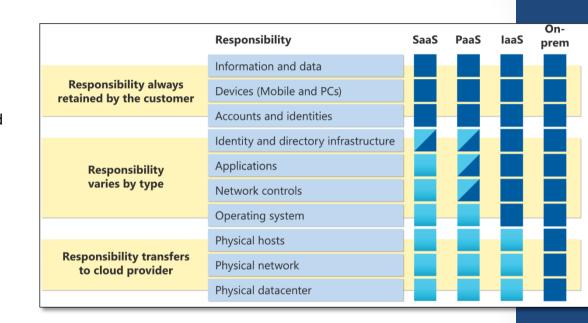
- Collaboration (e.g., Microsoft 365, Google Workspace)
- Chat (e.g., Slack, Zoom, Microsoft Teams)
- Phone systems (e.g., Zoom, Microsoft Teams, Google Meet)
- Data storage (e.g., Microsoft OneDrive, Google Drive, Adobe Cloud)
- Backup vendors
- Antivirus vendors sending potential malware to a central source for evaluation





#### Responsibilities in the Cloud

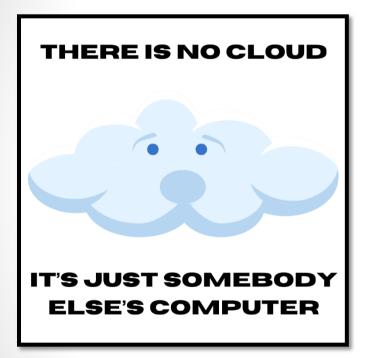
- Companies use the cloud to transfer responsibilities to the cloud service provider.
- Leverage economies of scale, automation, subject matter expertise, access to tools and capabilities, and other valuable resources and advantages offered by the cloud service provider to reduce cost and improve efficiency.
- HOWEVER...it is important to understand the distinction between responsibility and accountability.
  - Your company is always <u>accountable</u> to your clients for your cloud service provider's actions.







#### What is Cloud Computing? (Simplified)



You are simply entrusting the storage, processing, and/or transmission of your information to someone else, who performs services on your behalf on their computer(s).







Government Information



### General Government Information Sensitivity Levels



**Controlled Unclassified Information** 

Non-Public, Uncontrolled, Unclassified

**Public Information** 





#### Public Information Examples

- Press releases and Social Media Posts
- YouTube videos
- The Federal Register
- Federal websites (that do not require a login)
- Government Printing Office Publications
- IRS publications and forms (when blank)



THE WHITE HOUSE

**FACT SH** 

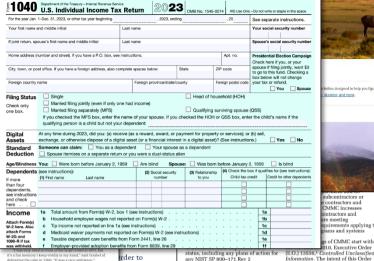
Executive

#### **A SWEET MEMORY**

Four Decades Later. GPO Reconnects with French Baker Who Made the Agency's 125th Anniversary Cake

Top: Jean-Claude Goubet sperit five days just making the sugar for GPO's 125th anniversary cake. The entire cake, including the flowers and flag were edible

Bottom: Jean-Claude Goubet (wearing a pastry chef outfit on the far right) hains deliver the decorative enum-super cake, a rentire of the GDO



National Park Service

isonian

requirement not yet implemented, in a

Information. The intent of this Order was to "establish an open and uniform

· Perpetuate a collaborative culture of

designed to help you figure out how to

tion and more

ubcontractors or

contractors and

ms and systems

irements applying to

of CMMC start with

10, Executive Order

MMC increase

entractors and

re meeting

minimizing barriers to compliance andards Visit What's On Explore Learn Get Involved Support About as three key

roposed Rules

nergy Act of 1954.3 as

9. DoD announced the

isition and Sustainment

A&SI) to secure the Defense

al Base (DIB) sector against

ber 2020. DoD published an

tion Regulation Supplemen

: Assessing Contractor

entation of Cybersecurity

ments (DFARS Case 2019-

which implemented the DoD's

of the framework (tiered mode

interim rule became effective

r phase-in period. In response to

nately 750 public comments on

MC 1.0 Program, in March 2021, rtment initiated an internal of CMMC's implementation.

In November 2021, the Department

designed to achieve the primary goals of

announced "CMMC 2.0." an updated

program structure and requirements

· Safeguard sensitive information to

to meet evolving threats

with DoD requirements

Ensure accountability while

enable and protect the warfighter

Enforce DIB cybersecurity standards

the internal review

ovember 2020, establishing a

ision for the CMMC Program 1.0") and outlined the basic

ices and processes, required

ents, and implementation contracts) to protect FCI and

cybersecurity threats. In

ule Defense Federal

ment of CMMC in order to move

m a "self-attestation" model of It was first conceived by the

the Under Secretary of Defense

Art & Design

Goubet says every part of the cake, made of spun sugar, was it as an example to help him design the cake. He spent five days "It's a very long job," says Goubet. "You need to be patient to onger to bake it in the oven than it did to assemble it."

"I went into the kitchen of GPO to renair the cake on the

Goubet, just 25 years old at the time, spent one month working at Roger's French Bakery while on vacation in America. His great uncle Roger Grison owned the bakery and offered him

"Seeing the photos at GPO brought me to tears," said Goubet, "I have very fond memories of that time. I wish I had had a camera."

Goubet got his start as a baker at just 11 years old in France. I needed money for a bike," said Goubet of his 11-year-old self. "I walked into a bakery and that was my very first job -

Goubet spent seven years of his life working as a pastry chef, first at bakeries in France, and then at Bury Sync Edmunds, the home of Saint Edmund, the original patron Saint of England. The home is known as Suffolk's Foodie Capital and offers awardwinning fine dining. He also worked at restaurant called Priory

cakes for his family.

■ ■ ■ WINTER 2024 | Typelise

'I don't make cakes that look like big buildings anymore, nuckles Goubet. "But I can still make pretty good cakes." Goubet now lives with his family in Cherbourg, a town in

his passing. His body rests in Virginia.

formative power of art and design

Smithsonian American Art Museum

#### Which Artist Shares Your Birthday?

Find out which artists were born on your birthday or in any year in the Smithsonian American Art Museum's collections

Learn More »



museums display objects from our collections that span the breadth of art and design from the ancient to the on the whimsical to the practical. Along with our art-focused programs and research, our work illustrates how art ntegral to humanity, enriching us all.

Carter, Dunford Attend NORAD, Northcom Change-of-Command Ceremony



#### Public Information is...Public

- Unlike works created by commercial and private entities, there are few restrictions on the dissemination or use of information released publicly by the government
- This means you can (generally):
  - Post it publicly online
  - Store it wherever you want/need to
  - Share it with whomever you'd like
  - Make derivative works of it
- Exceptions: logos, symbols, and seals

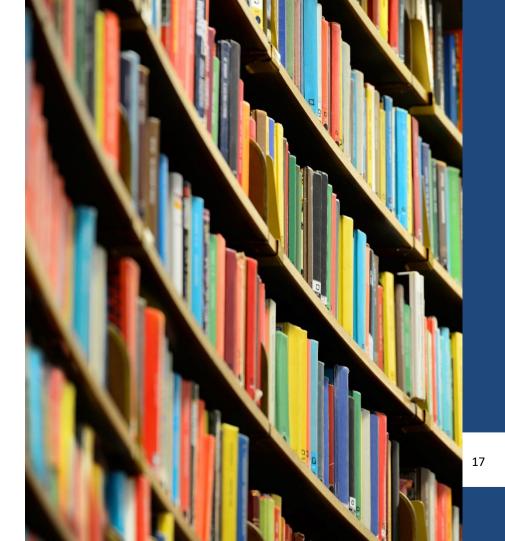
#### **Federal Contract Information**

"...information, not intended for public release, that is provided by or generated for the Government under a contract to develop or deliver a product or service to the Government, but not including information provided by the Government to the public (such as on public websites) or simple transactional information, such as necessary to process payments."

- FAR 52.204-21(a)

Oversimplification: Non-public information you create for or receive from the government





### **Examples of FCI**



- E-mails with the government
- Internal text/chats about a government contract
- Other non-public information created for the government
- Notes taken during a meeting about work being performed under a government contract





- Limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems).
- Limit information system access to the types of transactions and functions that authorized users are permitted to execute.
- iii. Verify and control/limit connections to and use of external information systems.
- iv. Control information posted or processed on publicly accessible information systems.
- vi. Identify information system users, processes acting on behalf of users, or devices. Authenticate (or verify) the identities of those users, processes, or devices, as a prerequisite to allowing access to organizational information systems.
- vii. Sanitize or destroy information system media containing Federal Contract Information before disposal or release for reuse.
- viii. Limit physical access to organizational information systems, equipment, and the respective operating environments to authorized individuals.

- ix. Escort visitors and monitor visitor activity; maintain audit logs of physical access; and control and manage physical access devices.
- x. Monitor, control, and protect organizational communications (i.e., information transmitted or received by organizational information systems) at the external boundaries and key internal boundaries of the information systems.
- xi. Implement subnetworks for publicly accessible system components that are physically or logically separated from internal networks.
- xii. Identify, report, and correct information and information system flaws in a timely manner.
- xiii. Provide protection from malicious code at appropriate locations within organizational information systems.
- xiv. Update malicious code protection mechanisms when new releases are available.
- xv. Perform periodic scans of the information system and real-time scans of files from external sources as files are downloaded, opened, or executed.





(c) Subcontracts. The Contractor shall include the substance of this clause, including this paragraph (c), in subcontracts under this contract (including subcontracts for the acquisition of commercial products or commercial services, other than commercially available off-the-shelf items), in which the subcontractor may have Federal contract information residing in or transiting through its information system.





(c) Subcontracts. The Contractor shall include the substance of this clause, including this paragraph (c), in subcontracts under this contract (including subcontracts for the acquisition of commercial products or commercial services, other than commercially available off-the-shelf items), in which the subcontractor may have Federal contract information residing in or transiting through its information system.





(c) Subcontracts. The Contractor shall include the substance of this clause, including this paragraph (c), in subcontracts under this contract (including subcontracts for the acquisition of commercial products or commercial services, other than commercially available off-the-shelf items), in which the subcontractor may have Federal contract information residing in or transiting through its information system.

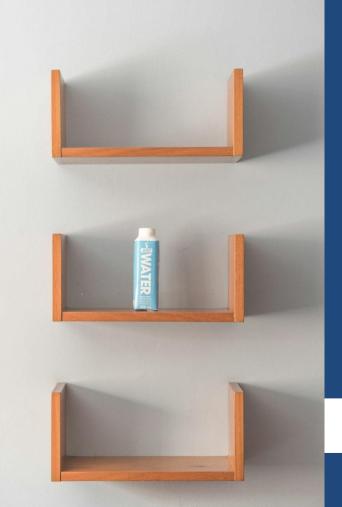




# Is SaaS Considered Commercially Available Off-the-Shelf?

#### **COTS** means:

- Any item of supply (including construction material) that is
  - (i) A commercial product (as defined in paragraph (1) of a "commercial product" in this section);
  - (ii) Sold in substantial quantities in the commercial marketplace; and
  - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
- 2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4)





# Is SaaS Considered Commercially Available Off-the-Shelf?

#### **COTS** means:

- Any item of supply (including construction material) that is
  - (i) A commercial product (as defined in paragraph (1) of a "commercial product" in this section);
  - (ii) Sold in substantial quantities in the commercial marketplace; and
  - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
- 2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4)







#### Item of Supply vs Services

 Item of Supply – "...means any individual part, component, subassembly, assembly, or subsystem integral to a major system, and other property which may be replaced during the service life of the system, and includes spare parts and replenishment spare parts, but does not include packaging or labeling associated with shipment or identification of an "item"."

- 41 USC 403

 Service – "Service contract means a contract that directly engages the time and effort of a contractor whose primary purpose is to perform an identifiable task rather than to furnish an end item of supply. ... It can also cover services performed by either professional or nonprofessional personnel whether on an individual or organizational basis."

- FAR 37.101



## Is SaaS an Item of Supply or a Service?

Category DK - IT and Telecom - Storage

PSC Codes	Description
DK01	IT and Telecom - Storage Support Services (Labor)  Support services used for 1) offline storage; archive, backup & recovery to manage data loss, data corruption, disaster recovery and compliance requirements of the distributed storage 2) Mainframe storage system services and 3) local storage such as SAN, NAS and similar technologies for the distributed compute infrastructure.
DK10	IT and Telecom – Storage As A Service  Cloud solutions delivered as a service.  Includes: Mainframe storage as a service. Software that is licensed for use over a defined period of time. This can also be referred to term, temporary, provisional, or short-term.





Product and Service Codes (PSC) Manual

Fiscal Year 2022 Edition

Effective date: October 2021





Prepared By: U.S. General Services Administration Federal Acquisition Services

Notes: Software as a Service, Service Contracts, Subscription based software provisioning, and device rentals are considered services.







#### The Problem

- Since FPDS considers SaaS to be a service, SaaS offerings may not qualify as COTS.
- FAR 52.204-21 says you must flow down the safeguarding requirements to all subcontractors whose information systems will be used to handle FCI unless they are COTS.
- Most SaaS service providers will not accept flow-downs or other contract modifications because of their business models.
- Does this mean you can't use cloud-based SaaS to handle FCI?

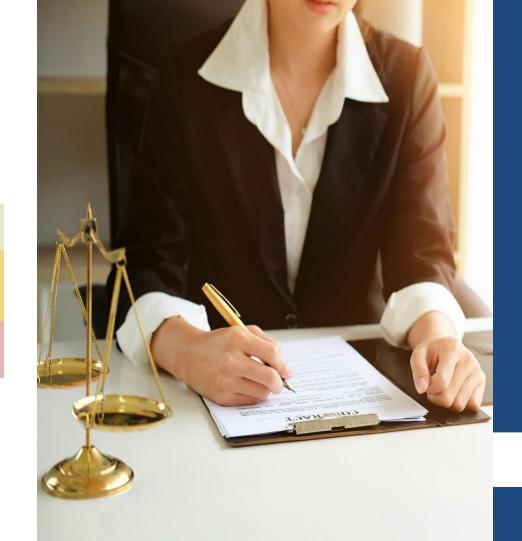




# Talk to Your Counsel Before Using a Cloud Service to Handle FCI

#### Review the SaaS provider's contract.

- Are they expressly accepting the flow-down of the requirements in FAR 52.204-21?
- Are they expressly meeting the requirements in FAR 52.204-21 but not specifically accepting the flow-down?
- Are they committing to meeting requirements equivalent to FAR 52.204-21?







CUI In the Cloud





#### What is CUI?

"...information the Government creates or possesses, or that an entity creates or possesses for or on behalf of the Government, that a law, regulation, or Government-wide policy requires or permits an agency to handle using safeguarding or dissemination controls. However, CUI does not include classified information ... or information a non-executive branch entity possesses and maintains in its own systems that did not come from, or was not created or possessed by or for, an executive branch agency or an entity acting for an agency."

- 32 CFR 2002.4(h)

Oversimplification: Unclassified information created or received for or on behalf of the US government that a law, regulation, or government-wide policy (LRGWP) says can or must be safeguarded or is subject to limited dissemination controls.









## **Examples of CUI**

- Healthcare records
- Privacy Information
- Sensitive Personally Identifiable Information
- Critical Infrastructure Information
- Asylee Information
- Archaeological Information
- General Nuclear Information
- Military Personnel Records
- Student Records
- General Proprietary Business Information





## What are my Obligations?

- Safeguard Controlled Unclassified Information (32 CFR 2002)
  - CUI Basic NIST SP 800-171 using NIST SP 800-171A
  - CUI Specified CUI Basic + Whatever it says in the corresponding LRGWP
- Only Disseminate to those with a Lawful Government Purpose and whom you have a reasonable belief will handle it appropriately







### Where Do They Apply?

A non-Federal information system is any information system that does not meet the criteria for a Federal information system. Agencies may not treat non-Federal information systems as though they are agency systems, so agencies cannot require that non-executive branch entities protect these systems in the same manner that the agencies might protect their own information systems. When a non-executive branch entity receives Federal information only incidental to providing a service or product to the Government other than processing services, its information systems are not considered Federal information systems. NIST SP 800–171 (incorporated by reference, see § 2002.2) defines the requirements necessary to protect CUI Basic on non-Federal information systems in accordance with the requirements of this part. Agencies must use NIST SP 800–171 when establishing security requirements to protect CUI's confidentiality on non-Federal information systems (unless the authorizing law, regulation, or Government-wide policy listed in the CUI Registry for the CUI category or subcategory of the information involved prescribes specific safeguarding requirements for protecting the information's confidentiality, or unless an agreement establishes requirements to protect CUI Basic at higher than moderate confidentiality).

- 32 CFR 2002.14(h)(2)





### Where Do They Apply?

A non-Federal information system is any information system that does not meet the criteria for a Federal information system. Agencies may not treat non-Federal information systems as though they are agency systems, so agencies cannot require that non-executive branch entities protect these systems in the same manner that the agencies might protect their own information systems. When a non-executive branch entity receives Federal information only incidental to providing a service or product to the Government other than processing services, its information systems are not considered Federal information systems. **NIST SP 800–171** (incorporated by reference, see § 2002.2) **defines the requirements necessary to protect CUI Basic on non-Federal information systems in accordance with the requirements of this part.** Agencies must use NIST SP 800–171 when establishing security requirements to protect CUI's confidentiality on non-Federal information systems (unless the authorizing law, regulation, or Government-wide policy listed in the CUI Registry for the CUI category or subcategory of the information involved prescribes specific safeguarding requirements for protecting the information's confidentiality, or unless an agreement establishes requirements to protect CUI Basic at higher than moderate confidentiality).

-32 CFR 2002.14(h)(2)







#### The Disconnect

- 32 CFR 2002 only applies to federal agencies.
- Each agency is supposed to flow down the requirements to government contractors and others receiving CUI as part of the acquisition process.
- Not all agencies have done this. Many are waiting for the "FAR CUI Rule", which has been percolating through the rulemaking process since 2016.

## DoD's Approach

If the Contractor intends to use an external cloud service provider to store, process, or transmit any covered defense information [which includes all CUI] in performance of this contract, the Contractor shall require and ensure that the cloud service provider meets security requirements equivalent to those established by the Government for the Federal Risk and Authorization Management Program (FedRAMP) Moderate baseline (https://www.fedramp.gov/resources/documents/) and that the cloud service provider complies with requirements in paragraphs (c) through (g) of this clause for cyber incident reporting, malicious software, media preservation and protection, access to additional information and equipment necessary for forensic analysis, and cyber incident damage assessment.

- DFARS 252.204-7012(b)(2)(ii)(D)





### DoD's Approach

If the Contractor intends to use an external cloud service provider to store, process, or transmit any covered defense information [which includes all CUI] in performance of this contract, the Contractor shall require and ensure that the cloud service provider meets security requirements equivalent to those established by the Government for the Federal Risk and Authorization Management Program (FedRAMP) Moderate baseline (https://www.fedramp.gov/resources/documents/) and that the cloud service provider complies with requirements in paragraphs (c) through (g) of this clause for cyber incident reporting, malicious software, media preservation and protection, access to additional information and equipment necessary for forensic analysis, and cyber incident damage assessment.

- DFARS 252.204-7012(b)(2)(ii)(D)





#### What is FedRAMP?



- Federal Risk and Authorization Management Program (FedRAMP)
- 2011 Established to provide a cost-effective, risk-based approach for the adoption and use of cloud services by the federal government in accordance with the Federal Information Systems Modernization Act ("FISMA") and OMB Circular A-130.
- 2022 –FY23 National Defense Authorization Act ("NDAA") included the FedRAMP Authorization Act.
  - Codifies FedRAMP program as <u>the</u> authoritative standardized approach to security assessment and authorization for cloud computing products and services used by agencies to process unclassified federal information.
- Two ways a cloud service becomes FedRAMP "authorized" (i.e., is issued an "Authority to Operate" ("ATO")):
  - An agency sponsors the cloud service provider's authorization process
  - The Joint Authorization Board ("JAB") selects and sponsors the cloud service provider's authorization







# FedRAMP® System Security Plan (SSP) Appendix A: Moderate FedRAMP Security Controls

for <Insert CSP Name>

<Insert CSO Name>

<Insert Version X X>

<Insert MM/DD/YYYY>

### FedRAMP ATO Requirements

- FedRAMP Program Management Office ("PMO") selected controls from NIST SP 800-53 and added others that are unique to cloud computing
- Cloud service provider implements a set of safeguarding requirements based on the impact level associated with the information to be handled by the service:

Low: 125 controls

• Moderate: 325 controls

• High: 425 controls

 Cloud service provider hires a 3<sup>rd</sup> Party Assessment Organization ("3PAO") to evaluate the implementation of those controls

**7/** FutureFeed

#### FedRAMP Status

- (Optional but Encouraged) Cloud service is deemed "FedRAMP Ready" when:
  - 3PAO completes a Readiness Assessment Report ("RAR") which documents how the cloud service provider meets the appropriate requirements
  - FedRAMP PMO reviews the RAR and any gaps are remediated
- Cloud service is deemed "In Process" when an agency or the JAB sponsors the review.
- Cloud Service is deemed "FedRAMP Authorized" when:
  - 3PAO completes an independent audit of the system by following a Security Assessment Plan ("SAP")
  - Audit results are recorded in a Security Assessment Report ("SAR")
  - Plans of Action and Milestones ("POA&Ms") are created to remediate any issues
  - Agency/JAB reviews and approves the SAR and POA&Ms
  - FedRAMP PMO reviews the materials and, if approved, adds them to the FedRAMP Marketplace

Latest on Marketplace using FedRAMP Authorized CSOs, and FedRAMP recognized assessors/auditors (3PAOs) that can perform a FedRAMP assessment. **A Nucleus** cornerstone DARKTRACE Learn more about Marketplace Cornerstone Unified **Nucleus Vulnerability** Cyber Al Mission Talent Management & Risk Management Defense and Email Suite (CUTMS) - DoD Platform Protection Now in Agency Review Now Authorized Now in Agency Review Click Below to Filter Marketplace by List Type: **PRODUCTS** ASSESSORS Provider 1 Service Offering 1 Service Model 1 Impact Level Status 1 Authorizations 1 Reuse 1 Moderate 18 CLOUD.GOV 463 total Authorizer FedRAMP in3sight Moderate 1()01Service Model Impact Level RevCycle Health Moderate FedRAMP Services Platform Authorized **Authorization Type** Deployment Model 0 Mystic Message Archival SaaS Moderate

Total FedRAMP

Authorized Services

328

**7/** FutureFeed

About FedRAMP

The FedRAMP Marketplace is a searchable and sortable database of CSOs that have achieved a

FedRAMP designation, a list of federal agencies

Marketplace





### If a SaaS or PaaS Resides in a FedRAMP Authorized IaaS, does that mean the SaaS/PaaS is FedRAMP Authorized?

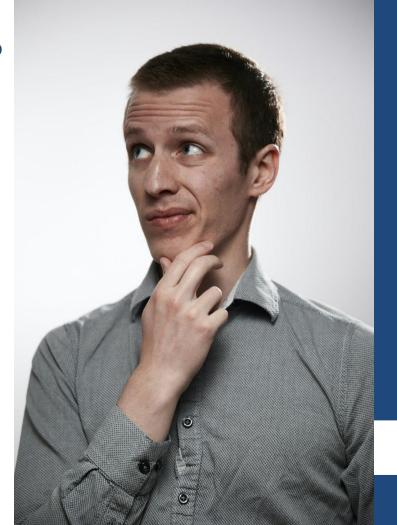
"No, using a FedRAMP Authorized infrastructure does not automatically make your service FedRAMP compliant. Each layer (i.e., IaaS, PaaS, and SaaS) must be evaluated on its own and become FedRAMP Authorized. However, when your software sits on a FedRAMP Authorized infrastructure, it will inherit controls from that authorized system and you can explain this in your documentation."

- FedRAMP FAQs



Does That Mean I Can't Use a Cloud Service that isn't Listed as FedRAMP Authorized in the Marketplace?

No. Recall that DFARS 252.204-7012 also allows for "equivalent" implementations.





### What Does "Equivalency" Look Like?

- It depends
- Prior to December 26, 2023:
  - We weren't really sure.
  - FedRAMP Ready or maybe a Letter of Attestation from a 3PAO after creating the RAR.
  - Anything short of that probably wouldn't have cut it.
- December 26, 2023 DoD adds requested clarity:
  - DoD publishes 32 CFR 170 as Notice of Proposed Rulemaking ("NPRM")
  - 32 CFR 170.16(c)(2)(ii) states that "Equivalency is met if the OSA has the CSP's System Security Plan (SSP) or other security documentation that describes the system environment, system responsibilities, the current status of the Moderate baseline controls required for the system, and a Customer Responsibility Matrix (CRM) that summarizes how each control is MET and which party is responsible for maintaining that control that maps to the NIST SP 800–171 Rev 2 requirements."







### What Does "Equivalency" Look Like (Continued)?

- Jan. 2, 2024 DoD reintroduces cloudiness with memorandum from Deputy DoD CIO David McKeown
- Equivalency Requires:
  - 100% compliance with all FedRAMP requirements and no POA&Ms.
  - Creation of a Body of Evidence that demonstrates full compliance.
  - Sharing of the Body of Evidence with the contractor.
  - <u>Contractor</u> must review the Body of Evidence to ensure it meets all FedRAMP Moderate requirements.
  - Cloud service provider commits to meeting the requirements in DFARS 252.204-7012(c)-(g).



## HOWEVER...DoD appears to be walking back some of the memo's language.

"I understand there's some confusion. I think we're going to have a call with industry where we have a large number of them come onto the call, and talk through this a little bit more, and tell us where we can maybe clarify the memo."

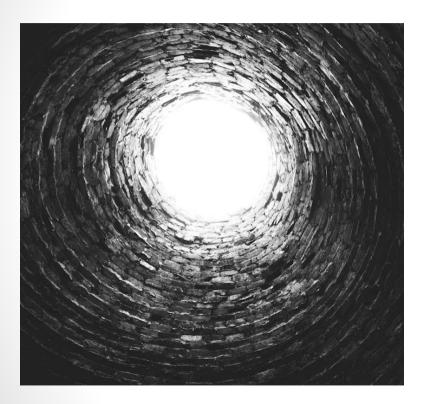
- DoD Deputy CIO David McKeown to Federal News Network Jan. 30, 2024







### Other Pitfalls – the (c)-(g) clauses



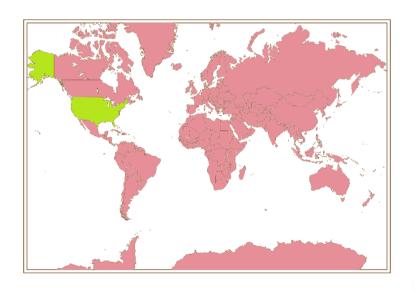
- Incident reporting
- Malicious software
- Media preservation
- Access to information or equipment for forensic analysis
- Cyber incident damage assessments





### And Don't Forget Export-Controlled Information

- Without a license from the appropriate agency:
  - Only US persons can access export-controlled information
  - Export-controlled information may not leave the United States
- This includes:
  - Systems administrators and others with privileged access who might be outside the United States
  - Network traffic containing the information (especially unencrypted network traffic)
- Unauthorized disclosure of exportcontrolled information to non-US persons (including permitting it to leave the country) can result in a jail sentence.







### Choosing a Cloud Service to Handle CUI

- Don't use just any service
- Choose those which understand:
  - what CUI is;
  - the FedRAMP Moderate Baseline requirements and how they apply;
  - the DoD Equivalency Memo (and are tracking the changes);
  - that they need to provide you with:
    - a Body of Evidence and
    - Service Responsibility Matrix that clearly defines, for each requirement in NIST SP 800-171, the requirements they are responsible for meeting and the requirements which are your responsibility
- And who will contractually commit to meeting the (c)-(g) clauses of DFARS 252.204-7012
  - e.g., Microsoft, Amazon, Google, PreVeil, Virtru
  - May be offered as separate, more expensive option due to costs associated with additional compliance burden
- AND, where appropriate, who can properly handle exportcontrolled information.





#### Summary

- You can put the government's information in the cloud.
- **HOWEVER**...you must be **very** selective about the cloud service provider and the offering.
- There are <u>MANY</u> potential pitfalls for you if you select a cloud service that does not accept and meet all of the requirements.
- Your organization will be held liable for any breaches, spills, or other issues.
- That liability includes contract termination, debarment, False Claims Act claims, and more.
- Unauthorized disclosure of export-controlled information to non-US persons (including permitting it to leave the country) can result in a jail sentence.







Q&A





