

AMENDMENT TO RULES COMMITTEE PRINT 118-

36

OFFERED BY MR. TIMMONS OF SOUTH CAROLINA

At the end of subtitle C of title XVII, insert the following new section:

1 **SEC. 17___. INNOVATION AND ADVANCEMENT OF MULTI-**
2 **CLOUD TECHNOLOGY.**

3 (a) **STUDY AND GUIDELINES FOR VOLUNTARY AGEN-**
4 **CY USE OF MULTI-CLOUD TECHNOLOGY.—**

5 (1) **IN GENERAL.—**Not later than 1 year after
6 the date of enactment of this Act, the Director
7 shall—

8 (A) study the use of multi-cloud technology
9 by agencies;

10 (B) identify the extent to which agencies
11 use multi-cloud computing technology;

12 (C) identify, among agencies that use
13 multi-cloud technology—

14 (i) best practices, including for secu-
15 rity, portability, and interoperability across
16 multiple cloud computing vendors;

17 (ii) best cybersecurity practices and
18 frameworks, including cloud native security

1 solutions, to support multi-cloud tech-
2 nology;

3 (iii) lessons learned from adoption of
4 multi-cloud technologies by agencies; and

5 (iv) use cases of multi-cloud tech-
6 nology by agencies;

7 (D) develop a cost-benefit analysis of agen-
8 cies transitioning to multi-cloud technology
9 compared to the existing cloud computing sys-
10 tems of those agencies; and

11 (E) provide to the relevant committees of
12 Congress a briefing on the plans and meth-
13 odologies of the Director for carrying out this
14 subsection and paragraph (1).

15 (2) BEST PRACTICES.—Not later than 1 year
16 after the date of the completion of the study re-
17 quired under paragraph (1)(A), the Director shall
18 compile and make available to agencies the informa-
19 tion identified under paragraph (1)(C) to assist
20 agencies that consider adopting or choose to adopt
21 multi-cloud technology.

22 (3) BRIEFING.—Not later than 540 days after
23 the date of enactment of this Act, the Director shall
24 submit to the relevant committees of Congress the
25 findings of the study required under paragraph

1 (1)(A), including any legislative recommendations to
2 ensure the safe and secure voluntary adoption of
3 multi-cloud technology by agencies.

4 (b) WORKFORCE DEVELOPMENT STUDY AND TECH-
5 NICAL CAPABILITIES ASSESSMENT.—Not later than 1
6 year after the date of enactment of this Act, the Comp-
7 troller General shall submit to Congress and make publicly
8 available a report that—

9 (1) assesses the state of the digital skills and
10 expertise gap within the Federal workforce relating
11 to information and communications technology, in-
12 cluding cloud computing and multi-cloud technology;

13 (2) assesses—

14 (A) the capability of the Federal acquisi-
15 tion workforce to effectively research, solicit,
16 evaluate, acquire, and securely procure and
17 manage multi-cloud technology from vendors,
18 with particular attention to flexible or modular
19 contracting practices that facilitate the inher-
20 ently complex and dynamic nature of multi-
21 cloud technology procurement; and

22 (B) any gaps in the Federal acquisition
23 workforce with respect to the tasks described in
24 subparagraph (A);

1 (3) assesses the capability of the Federal infor-
2 mation technology workforce to effectively architect,
3 deploy, manage, and secure multi-cloud technology
4 from vendors, with particular attention to technical
5 practices that focus on interoperability, monitoring,
6 and optimization of the multi-cloud environment;

7 (4) estimates any costs associated with addi-
8 tional Federal workforce training as a result of the
9 increased adoption of multi-cloud technologies; and

10 (5) includes any recommendations to address
11 any gap identified as a result of the assessment de-
12 scribed in paragraph (1) relating to—

13 (A) Federal workforce development activi-
14 ties, including training, certifications, staffing
15 levels, and partnerships; and

16 (B) policies and hiring practices for agen-
17 cies.

18 (c) REPORT TO CONGRESS.—Not later than 2 years
19 after the date of enactment of this Act, the Comptroller
20 General shall submit to Congress and make publicly avail-
21 able a report assessing—

22 (1) the state of cloud technology adoption with-
23 in the Federal Government as of the date of enact-
24 ment of this Act;

1 (2) whether and to what extent the use of
2 multi-cloud technology has resulted in flexibility,
3 cost savings, and reduced cybersecurity risk;

4 (3) circumstances that are favorable or not fa-
5 vorable for adoption by agencies of multi-cloud tech-
6 nology;

7 (4) the technical and other capabilities nec-
8 essary for the voluntary adoption of multi-cloud
9 technology by agencies;

10 (5) cybersecurity risks and benefits specific to
11 multi-cloud technology, including best practices for
12 agencies or entities looking to use multi-cloud tech-
13 nology to mitigate identified risks; and

14 (6) a cost-benefit analysis of agencies
15 transitioning to multi-cloud technology compared to
16 the existing cloud computing systems of those agen-
17 cies.

18 (d) MULTI-CLOUD TECHNOLOGY DEFINITION.—

19 (1) IN GENERAL.—Not later than 120 days
20 after the date of enactment of this Act, the Director
21 of the National Institute of Standards and Tech-
22 nology shall publish a definition of “multi-cloud
23 technology” for the purpose of this section.

24 (2) CONSIDERATIONS.—In publishing the defi-
25 nition required under paragraph (1), the Director of

1 the National Institute of Standards and Technology
2 shall consider input from stakeholders and industry
3 leaders.

4 (3) REVIEW; UPDATES.—The Director of the
5 National Institute of Standards and Technology
6 shall periodically review and, if necessary, update
7 and republish the definition required under sub-
8 section (a) to reflect advancements in technology or
9 industry practices.

10 (e) NO ADDITIONAL FUNDS.—No additional amounts
11 are authorized to be appropriated to carry out this section.

12 (f) DEFINITIONS.—In this section:

13 (1) The term “agency” has the meaning given
14 the term in section 3502 of title 44, United States
15 Code.

16 (2) The term “cloud computing” has the mean-
17 ing given the term in Special Publication 800–145
18 of the National Institute of Standards and Tech-
19 nology, or any successor document.

20 (3) The term “Comptroller General” means the
21 Comptroller General of the United States.

22 (4) The term “Director” means the Director of
23 the Office of Management and Budget.

24 (5) The term “information and communications
25 technology”—

1 (A) has the meaning given the term in
2 subpart 2.101 of the Federal Acquisition Regu-
3 lation, or any successor regulation; and

4 (B) includes associated services.

5 (6) The term “multi-cloud technology” has the
6 meaning given the term by the Director of the Na-
7 tional Institute of Standards and Technology pursu-
8 ant to subsection (d)(1).

9 (7) The term “relevant committees of Con-
10 gress” means the Committee on Homeland Security
11 and Governmental Affairs of the Senate and the
12 Committee on Oversight and Accountability of the
13 House of Representatives.

