118TH CONGRESS 1ST SESSION	S. _	_	
To advance Federal Gouse of multi-cloud com			

IN THE SENATE OF THE UNITED STATES

Mr. Daines (for himself and Ms. Rosen) introduced the following bill; which was read twice and referred to the Committee on _____

A BILL

To advance Federal Government innovation through the implementation and use of multi-cloud computing software technology, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION 1. SHORT TITLE.
- 4 This Act may be cited as the "Multi-Cloud Innovation
- 5 and Advancement Act of 2023".
- 6 SEC. 2. DEFINITIONS.
- 7 In this Act:
- 8 (1) AGENCY.—The term "agency" has the
- 9 meaning given the term in section 3502 of title 44,
- 10 United States Code.

1	(2) CLOUD COMPUTING.—The term "cloud
2	computing" has the meaning given the term in Spe-
3	cial Publication 800–145 of the National Institute of
4	Standards and Technology, or any successor docu-
5	ment.
6	(3) Comptroller general.—The term
7	"Comptroller General" means the Comptroller Gen-
8	eral of the United States.
9	(4) Director.—The term "Director" means
10	the Director of the Office of Management and Budg-
11	et.
12	(5) Information and communications
13	TECHNOLOGY.—The term "information and commu-
14	nications technology"—
15	(A) has the meaning given the term in
16	subpart 2.101 of the Federal Acquisition Regu-
17	lation, or any successor regulation; and
18	(B) includes associated services.
19	(6) Multi-cloud technology.—The term
20	"multi-cloud technology" means architecture and
21	services that allow for data, application, and pro-
22	gram portability, usability, and interoperability be-
23	tween infrastructure, platforms, and hosted applica-
24	tions of multiple cloud computing vendors and be-
25	tween public, private, and edge cloud environments

1	in a manner that securely delivers operational and
2	management consistency, comprehensive visibility,
3	and resiliency.
4	(7) Relevant committees of congress.—
5	The term "relevant committees of Congress" means
6	the Committee on Homeland Security and Govern-
7	mental Affairs of the Senate and the Committee on
8	Oversight and Accountability of the House of Rep-
9	resentatives.
10	SEC. 3. USE OF MULTI-CLOUD TECHNOLOGY.
11	(a) In General.—Not later than 1 year after the
12	date of enactment of this Act, the Director, in consultation
13	with the Administrator of General Services, the Director
14	of the National Institute of Standards and Technology,
15	the Secretary of Homeland Security, the Administrator of
16	the United States Digital Service, and the Administrator
17	of the Office of Electronic Government, shall—
18	(1) identify and evaluate any impediments to
19	the adoption of multi-cloud technology by agencies;
20	(2) identify best practices for how agencies can
21	implement multi-cloud technology to allow for data
22	portability and interoperability across multiple cloud
23	computing vendors;

1	(3) evaluate the adoption by agencies of cyber-
2	security frameworks to support multi-cloud tech-
3	nology; and
4	(4) develop written guidance for agencies based
5	on the results of the identification described in para-
6	graph (2) that—
7	(A) describes how agencies should use
8	multi-cloud technology to allow for applications,
9	data, and programs to be portable and inter-
10	operable between public, private, and edge cloud
11	environments; and
12	(B) outlines a roadmap for the implemen-
13	tation of multi-cloud technology across agencies
14	not later than January 1, 2025.
15	(b) Briefing.—Not later than 1 year after the date
16	of enactment of this Act, the Director shall submit to the
17	relevant committees of Congress—
18	(1) a copy of the written guidance developed
19	under subsection (a)(4);
20	(2) a briefing on the implementation of multi-
21	cloud technology by agencies; and
22	(3) any recommendations relating to the expan-
23	sion or extension of the implementation described in
24	paragraph (2).

	5
1	SEC. 4. WORKFORCE DEVELOPMENT STUDY AND TECH-
2	NICAL CAPABILITIES ASSESSMENT.
3	(a) IN GENERAL.—Not later than 1 year after the
4	date of enactment of this Act, the Comptroller General
5	shall submit to Congress and make publicly available a
6	report that—
7	(1) assesses the state of the digital skills and
8	expertise gap within the Federal workforce relating
9	to information and communications technology, with
10	particular attention to the skills and expertise gap
11	relating to cloud computing and multi-cloud tech-
12	nology;
13	(2) assesses the capability of the Federal acqui-
14	sition workforce to effectively research, solicit, evalu-
15	ate, acquire, and manage multi-cloud technology
16	from vendors, with particular attention to flexible or
17	modular contracting practices that facilitate the in-
18	herently complex and dynamic nature of multi-cloud
19	technology procurement;
20	(3) estimates any costs associated with addi-
21	tional Federal workforce training as a result of the
22	increased adoption of multi-cloud technologies; and
23	(4) includes any recommendations to address

any gap identified as a result of the assessment de-

scribed in paragraph (1) relating to—

24

25

1	(A) Federal workforce development activi-
2	ties, including training, certifications, staffing
3	levels, and partnerships; and
4	(B) policies and hiring practices for agen-
5	cies.
6	(b) Technical Assessment.—Not later than 1 year
7	after the date of enactment of this Act, the Comptroller
8	General shall submit to Congress and make publicly avail-
9	able a report that—
10	(1) assesses the technical capabilities of existing
11	agency networks to support multi-cloud technology;
12	(2) evaluates any technical capability impedi-
13	ments of agencies that delay the adoption of multi-
14	cloud technology; and
15	(3) includes any recommendations relating to
16	policies and best practices for agencies to address
17	any impediments identified as a result of the assess-
18	ment described in paragraph (1) and the evaluation
19	described in paragraph (2).
20	SEC. 5. REPORT TO CONGRESS.
21	Not later than 2 years after the date of enactment
22	of this Act, the Comptroller General shall submit to Con-
23	gress and make publicly available a report assessing how
24	agencies have implemented the guidance developed under
25	section 3(a)(4) to deploy and secure multi-cloud tech-

7

ALL23853 0JR S.L.C.

1 nology architecture that includes multiple cloud computing

2 software vendors.