



**In 2010, OMB announced the
Federal Cloud Computing
Strategy (“Cloud First”).**

Agency	Data Center Consolidation ¹	IT Portfolio Review Savings	Incremental Development ²	Risk Assessment Transparency	Overall Grade
USDA	F	F	D	B	D
DOC	A	B	C	A	B
DOD	F	F	F	C	D
Ed	F	F	F	D	F
DOE	F	F	F	D	F
HHS	F	F	B	C	D
DHS	A	C	F	B	C
HUD		F	F	A	D
DOI	F	B	F	A	C
DOJ	A	F	F	D	D
DOL	F	F	D	C	D
State	C	F	F	F	D
DOT	F	F	F	C	D
Treasury	F	B	D	D	D
VA	F	F	A	C	C
EPA	F	F	A	A	C
GSA	D	C	A	B	B
NASA	F	D		F	F
NRC	F	F	A	A	C
NSF	A	F		F	D
OPM	F	F	F	B	D
SBA		F	F	B	D
SSA	F	A	F	D	D
USAID		C		F	D

First FITARA scorecard (2015)

Even after five years, progress was slow.

No agency earned an “A” on the first FITARA scorecard. Nearly 70% earned a “D” or “F.”

The barrier to access was too high.

Even the best case scenario time to deployment was **6-9 months**

Tech requirements

Stack: Web server, app server, database, cache, index

Environments: (Local), dev, test, stage, production

User management: Admin, devs, auditors

Operations: Patch, logs, CDN, scanning, availability

Implementation requirements

Steps: Procure, provision, develop, document, audit, deploy, operate

Government **security and compliance** requirements not adequately addressed by industry

Agencies often not **staffed appropriately** to own and operate cloud infrastructure

18F knew how to reduce the technical burden.

18F knew a government-led product could reduce the compliance burden.

So we built cloud.gov.

cloud.gov is a **Platform as a Service** (PaaS).

It is based on **open source** Cloud Foundry and built on AWS GovCloud.

It has baked-in **federal security compliance**.



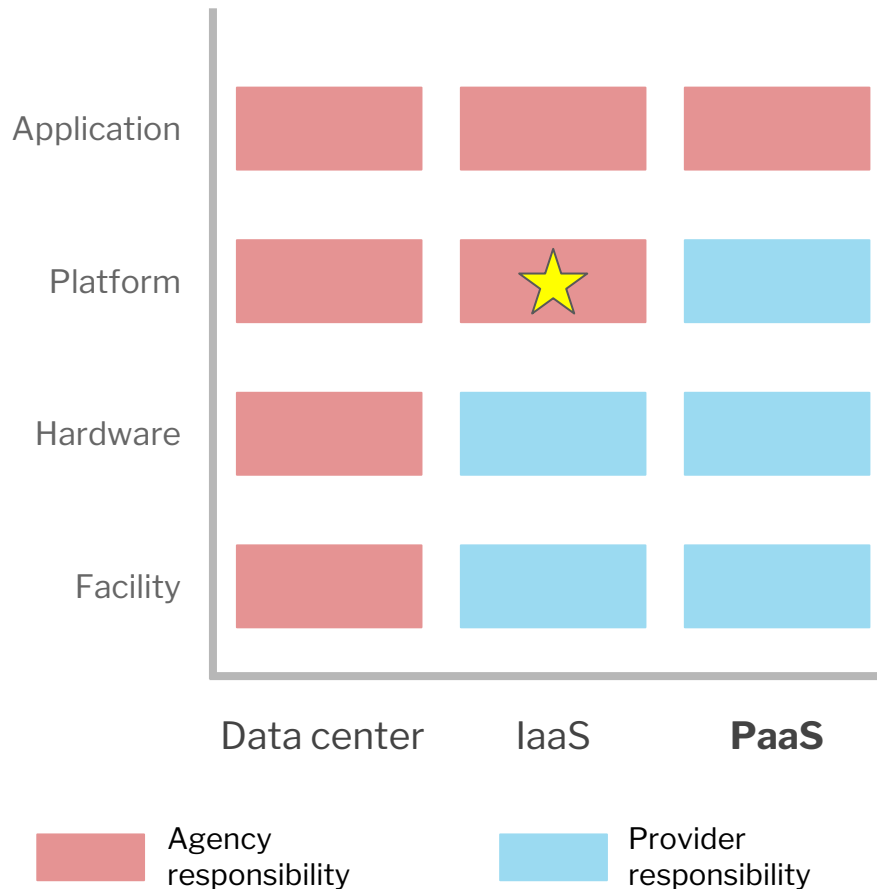
CLOUD**FOUND**RY



AWS GovCloud (US)



Platform as a Service



cloud.gov is a **pre-built environment** ready for deploying an application.

It lets agencies reduce what they need to manage and focus on **mission needs** instead.

**Here is my source code
Run it on the cloud for me
I do not care how**

18 agencies, 31 systems



Federal Election Commission



General Services Administration



Department of Education



Department of Justice, FBI



Federal Deposit Insurance Corporation



Department of Health and Human Services



National Institutes of Health



Environmental Protection Agency



Department of the Interior



Bureau of Alcohol, Tobacco, Firearms, and Explosives



Department of Homeland Security



Department of State



National Oceanic and Atmospheric Administration



Office of Personnel Management



US Agency for International Development



Department of Agriculture, Forest Service



US Air Force



Internal Revenue Service

Demo

Federal Election Commission (fec.gov)

FEC spent \$1.4 million annually
on their data center

With cloud.gov + AWS, initial
estimates show **\$1.2 million in
savings annually**



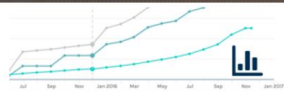
Menu

Federal Election Commission
UNITED STATES — of — AMERICA

An official website of the U.S. government

Protecting the integrity of the federal campaign finance process

[More about the FEC](#)



[Campaign finance data](#)

Showing how money is raised and spent in federal elections.

[Learn more](#) ▼



[Help for candidates and committees](#)

Providing guidance for individuals and groups that are active in federal elections.

[Learn more](#) ▼



[Legal resources](#)

Administering and enforcing federal campaign finance law.

[Learn more](#) ▼

By the numbers

Production apps

375

Managed services

816

Paying organizations

64

Team size

8

(down from a peak of 24)

Our goal in the coming months: articulate cloud.gov's vision for 2020 and beyond.

**We'd like to work with you to
make that happen.**

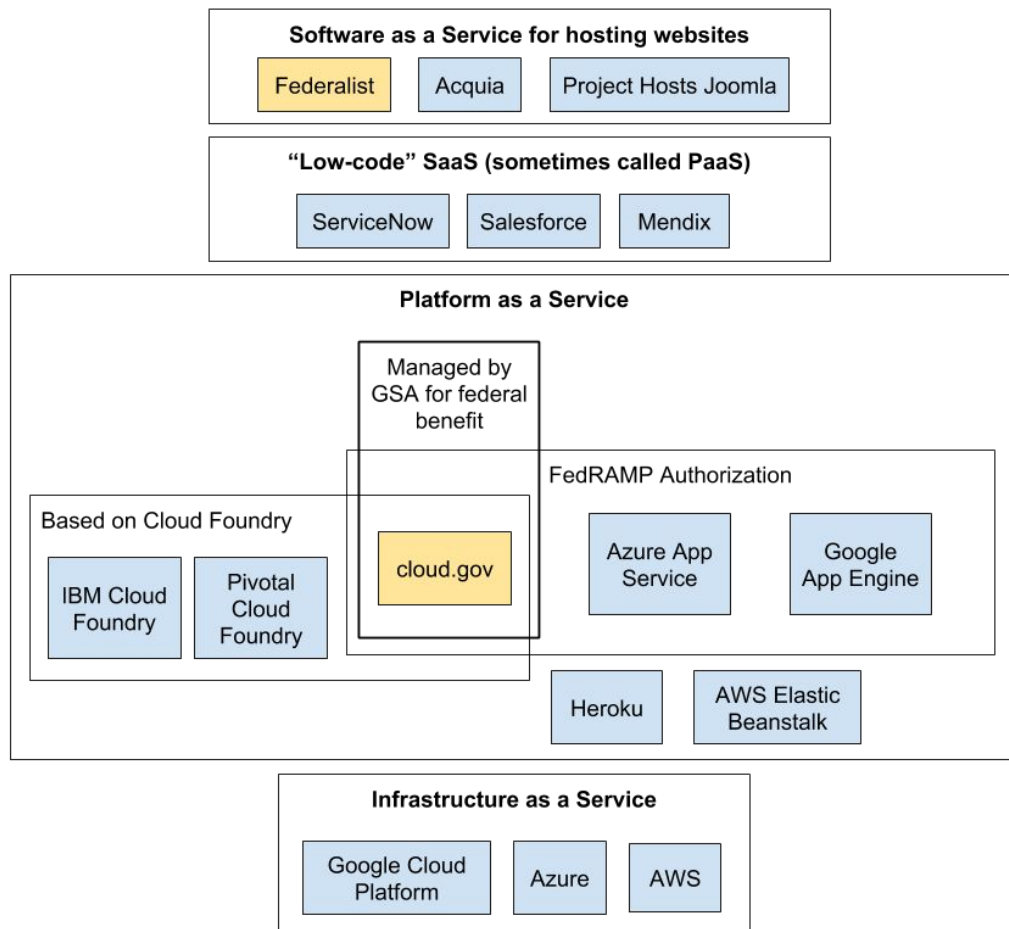
**We'd also like to lead the way
in building GSA IT/TTS
relationships.**

Thank you!

cloud.gov

Appendix

Cloud.gov's placement in the cloud ecosystem



Links to explore

- [Case studies](#)
- [Quickstart](#)
- [FedRAMP](#)
- [ATO process](#)
- [Supported applications](#)
- [Pricing](#)
- [Data flow diagrams](#)