



# GovStack Cloud BB: Sovereign Clouds for all countries

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FOSDEM  
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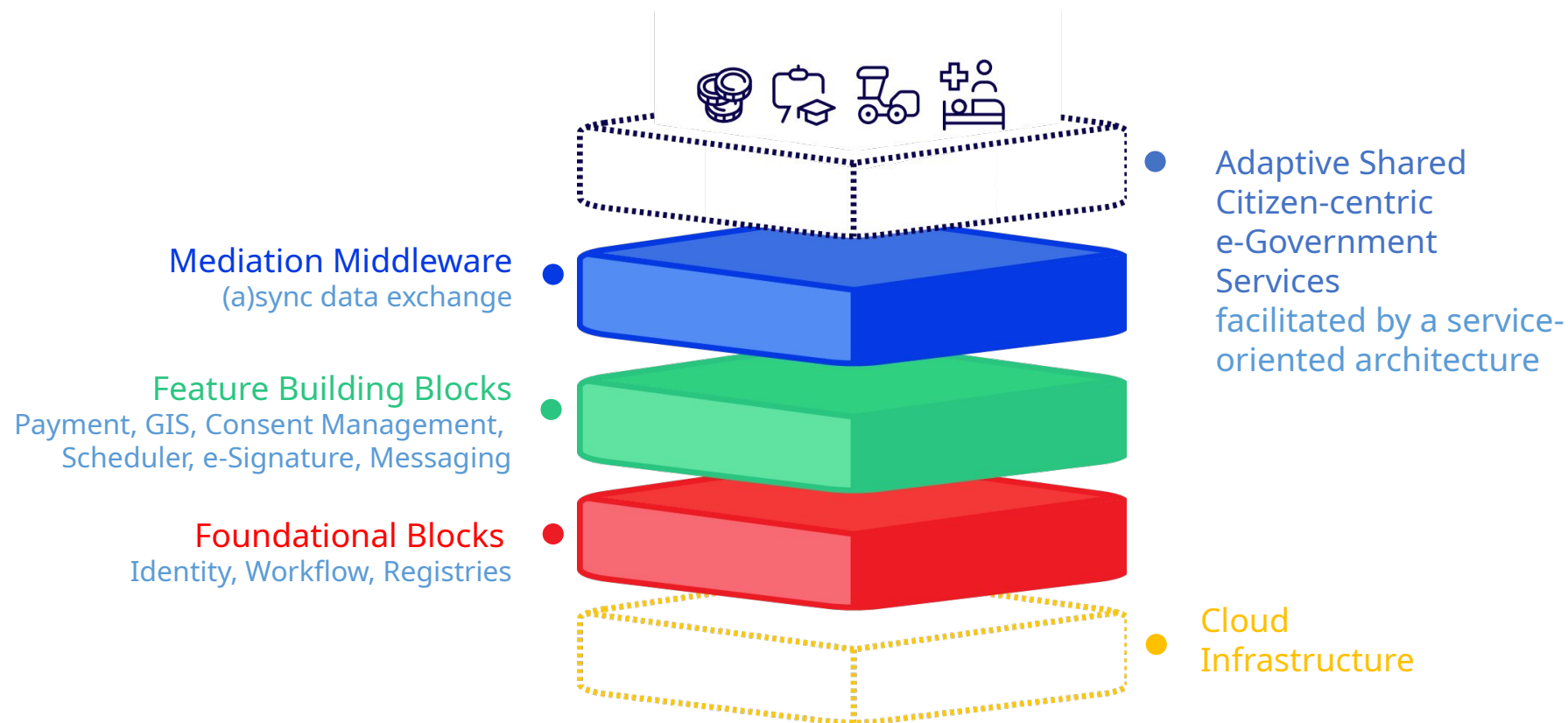
#GovStack

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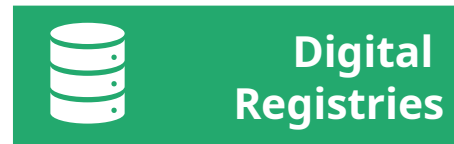


# GovStack

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# Building Blocks Specifications



[govstack.gitbook.io](http://govstack.gitbook.io)

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# Neutral Broker



Government

GovStack

Software Provider

Contribute with  
Best Practices

Contribute with  
Best Practices



# Value of Specifications



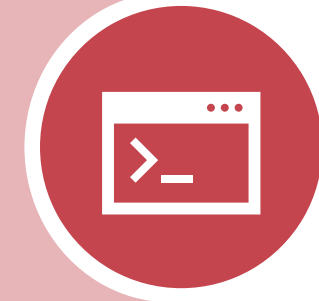
Planning  
Procurement  
Integration

Government



Client Needs  
Add Features  
New Market

GovStack



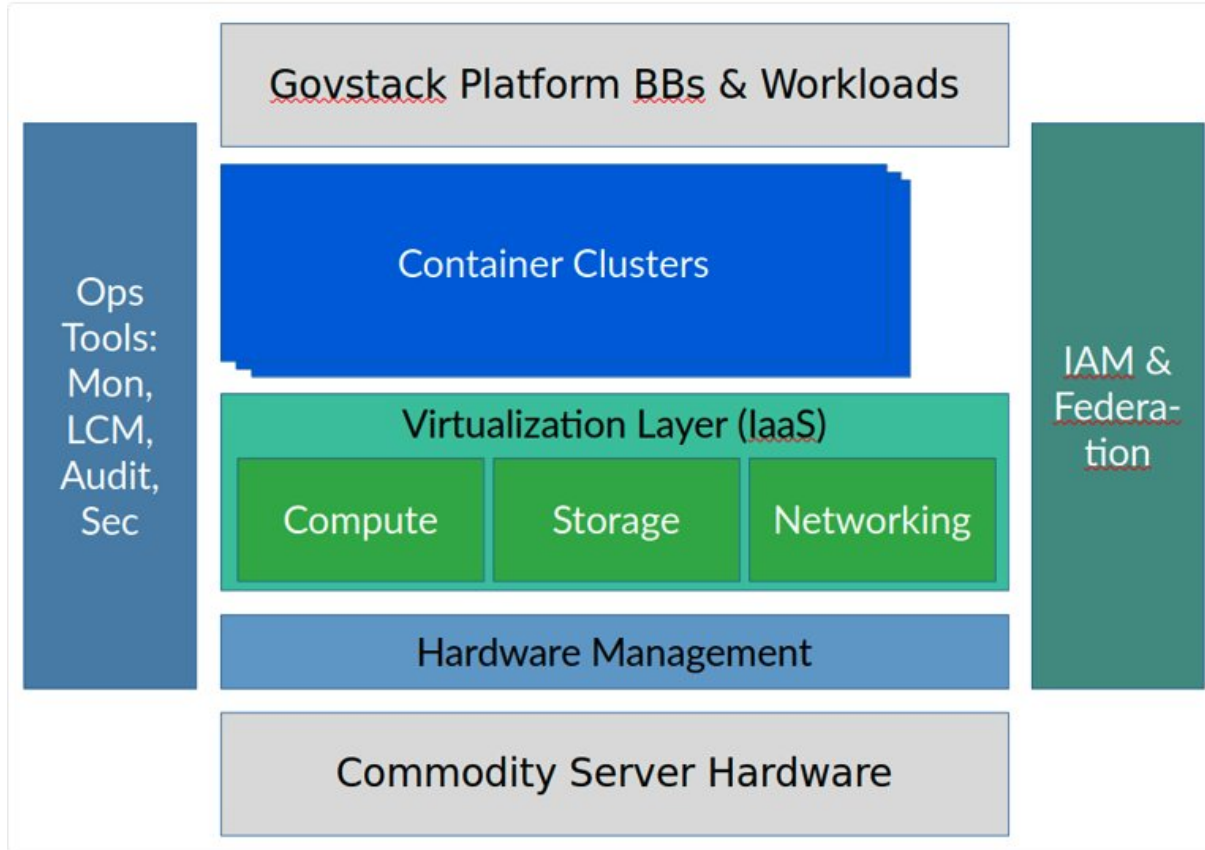
Software  
Provider





# Cloud Infrastructure

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Cloud Infrastructure

1 Version History

2 Description

3 Terminology

4 Key Digital Functionalities

5 Cross-Cutting Requirements

**6 Functional Requirements**

7 Data Structures

8 Service APIs

9 Internal Workflows

10 Other Resources

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## 6 Functional Requirements

This section lists the technical capabilities of this Building Block.

### 6.1 Management of physical hardware

- Asset management for the physical infrastructure and automation to deploy the basic infrastructure tooling for rolling out the virtualization management platform and operational tooling (REQUIRED).

### 6.2 Virtualization platform

- Virtualization management platform that supports Virtualization of compute, storage, and network resources on top of commodity server hardware (REQUIRED).
- Compute virtualization offers the creation of virtual machines of various standardized sizes/properties (with respect to virtual CPUs and memory) (REQUIRED).
  - The available sizes/properties may be limited to a list of predefined templates (flavors) or be chosen freely (OPTIONAL).
- Optionally, virtualized or pass-through GPU compute capacity is exposed to the VMs (OPTIONAL).
- There is a scheduling mechanism that finds the most suitable host that fulfills all the constraints from the user (REQUIRED).
  - Situations where common VM flavors can no longer be scheduled due to capacity shortage should be avoided (RECOMMENDED).
  - Users must have ways to prevent or force scheduling of VMs on the same host (REQUIRED)
  - Users may express softer preferences for the placement (RECOMMENDED).
- The virtual machines are booted using operating system images. Providers provide a set of regularly updated standard images (REQUIRED).

6.1 Management of physical hardware

6.2 Virtualization platform

6.3 Container orchestration platform

6.4 Identity and Access Management

6.5 Operational and Security Tooling

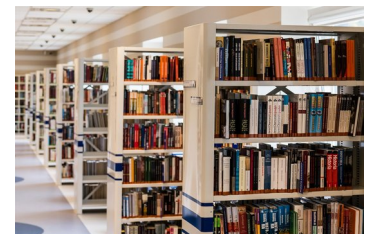
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# Digital Sovereignty: What? Why?

- **Data Sovereignty:** Control over data (and compliance with data protection regulations)
- **Choice:** No vendor lock-in
  - Strong technical standards: Option to choose and change providers, federability
- **Technological Sovereignty:** Complete transparency through open source software
  - Flexibility and adaptability of the software
- **Open Operations:** Transparency of operations through available operational knowledge
  - Own expertise and knowledge





# SCS deliverables to improve Digital Sovereignty



Certifiable Standards

**Choice**



Modular Open Source  
Reference Implementation

**Technological  
Sovereignty**



Accessible  
operational knowledge


**Open Ops/  
Knowledge**



# GovStack Country Implementation



Legend:

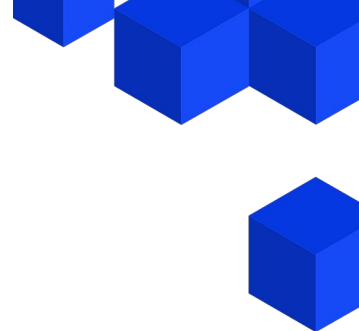
-  GovStack Implementing Countries
-  GovStack Upcoming Countries



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# SCS in Country Engagements



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# The stakes are increasing it's no longer just about *digital* freedom

Zuckerberg, Bezos, Pinch ai, Muskin the first row at the 2025 Trump inauguration

Elon Musk doing the Nazi salute

OR



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