



**Hewlett Packard  
Enterprise**

# A practical journey to sovereign cloud with HPE Cybersecurity Services



The global digital economy is evolving with new regulations, directives, and standards to comply with and a growing number of new cloud service offerings combining connectivity, collaboration, insights, growth with security, compliance, and sovereignty. Sovereign cloud is the next big cloud transformation affecting how organizations operate, provide, consume, and govern cloud services. This requires balanced considerations of people, processes, technologies as well as policies and regulations to be successful.

Sovereign cloud is a cloud computing service that is exclusively owned, controlled, and operated by a particular organization within a well-defined data center, collocation, country, or regional border. Business and geopolitical constraints have made organizational decision-makers increasingly aware of the importance of protecting their assets and data that are living on the IT infrastructures they use. The concept of sovereignty is not new; the financial industry and government sector have long prioritized controlling their own, as well as their customers' and citizens' data, ensuring it remains on independent platforms. The sovereignty question is especially interesting in the context of cloud which is about sharing resources and consuming these in an as-a-service way.

Enterprise customers may choose to consume existing sovereign cloud services in the market, but many others prefer to host workloads on their private infrastructure. Organizations often seek private cloud or hybrid cloud solutions not only due to cost considerations but also because of concerns around control, security, resilience, and regulatory compliance. As sovereignty requirements become increasingly integrated into regulatory compliance, enterprise customers are looking to — or want to be prepared to — implement trusted cloud solutions.

On the other hand, cloud service providers (CSPs) need assistance in developing their sovereign cloud strategies. As service providers design and build their cloud offerings, they must adhere to strict sovereign compliance regulations, both at the regional (such as EUCS and GDPR in the EU) and national levels (such as SecNumCloud in France, ENS in Spain, or C5 in Germany), to ensure data sovereignty and maintain jurisdictional control.

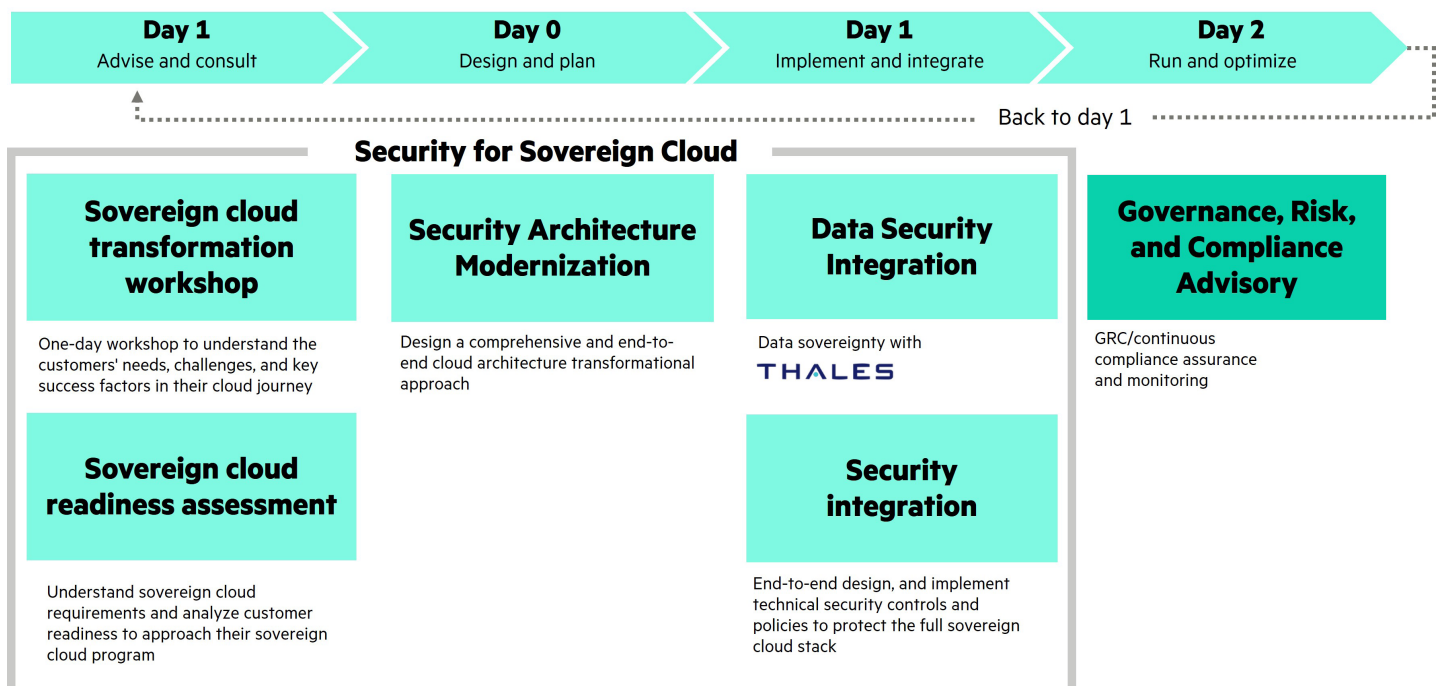
## Sovereign cloud requires a transformational approach

On [understanding sovereign cloud](#), you will realize there are no single solutions or silver bullets for addressing sovereign cloud requirements. Organizations should

realize that planning, implementing, and maintaining a sovereign cloud will require a transformation and long-term approach, as politics are moving fast, and the technology market is adapting to these requirements. Designing and implementing a sovereign cloud requires building a collaborative ecosystem working with partners and vendors to strengthen trust through a unified approach.

## A pragmatic approach to sovereign cloud with HPE Cybersecurity Services

HPE Services has developed a comprehensive portfolio built on the HPE security reference architecture for sovereign cloud — which is covered in sovereign cloud requires an architectural and holistic cybersecurity approach — for supporting all stages in the transformation. This architecture seamlessly integrates sovereign requirements, adhering to the most stringent standards and regulations governing data sovereignty. With an architectural approach, HPE Services team can help customers craft custom solutions tailored to their specific needs.



**Figure 1.** HPE security services for sovereign cloud

You can start your journey with the HPE Cybersecurity Services – Security for Sovereign Cloud. As part of this multi-offer service, Hewlett Packard Enterprise introduces different options that can help independently of the use case or the stage in the journey. These service options are designed for both service providers and end customers:

- Start your sovereign cloud journey with the sovereign cloud transformation workshop, a one-day workshop, to understand the customers' needs, challenges, and key success factors for a sovereign cloud program. This service leverages the [HPE Transformation Services – Edge-to-Cloud Adoption Framework \(E2CAF\)](#) providing tailored recommendations and insights on your current and future sovereign cloud capabilities to achieve these objectives.
- Readiness assessment for sovereign cloud can help organizations / service providers who need to understand their specific sovereign cloud requirements and analyze their capabilities' readiness to implement a sovereign cloud program. The outcome is a comprehensive readiness report, offering a road map with clear path to build or enhance their sovereign cloud program.
- With the [HPE Cybersecurity Services – Security Architecture Modernization](#) option, HPE can help customers design comprehensive and end-to-end sovereign cloud architecture in compliance with local regulatory requirements considering sovereign requirements.
- With the [HPE Cybersecurity Services – Data Security Integration](#) option, HPE can support customers to design and implement a data encryption and key management system to specifically address data sovereignty requirements.
- Security integration service option: HPE can support customers to consider a holistic approach for the design and implementation of technical security controls and policy enforcement controls. With this service option, HPE can implement foundational security controls considering built-in security features in the cloud stack such as access control, built-in encryption configuration, network segmentation and monitoring, backup and disaster recovery procedures, and integration with existing security monitoring tools. HPE also offers an advanced option to integrate add-on security controls which include system hardening, data security integration, advanced identity and access management

integration, multifactor authentication, privileged access management solutions, PKI deployment, threat and vulnerability management, penetration testing services or SOAR, and EDR solution integration.

Finally, [HPE Cybersecurity Services – Governance, Risk, and Compliance Advisory](#) can support customers on their GRC activities and guide them on cybersecurity certification process with local regulations. In the context of cloud, AI, and broader digital transformation initiatives, organizations face a growing array of sovereignty challenges related to governance, risk management, and compliance (GRC). Sovereign concerns are particularly significant when sensitive data or AI-driven systems must be managed within specific geographic or jurisdictional boundaries to comply with national regulations, data protection laws, and industry standards. These concerns add complexity to data sovereignty, security, ethical AI governance, and regulatory adherence. Security for Sovereign Cloud services plays a crucial role by offering expertise in addressing these sovereign concerns, helping organizations navigate regulatory landscapes, mitigate risks, and help ensure that cloud, AI, and digital strategies align with compliance requirements. By establishing strong governance frameworks, GRC advisors enable organizations to adopt innovative technologies while maintaining security, compliance, and operational resilience.

In summary, HPE proposes a cybersecurity-led approach to your sovereign cloud journey. Using security reference architecture for sovereign cloud from HPE, consultants can architect sovereign cloud based on HPE Private Cloud Enterprise and custom solutions to help ensure seamless interoperability with customer legacy systems.

Learn more about HPE GreenLake cloud and HPE Private Cloud Enterprise with disconnected management and sovereign management.

For more information on how HPE Services can help with cybersecurity in your sovereign cloud initiative, feel free to reach out to me or check out our Enterprise Security and Digital Protection Services.





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