

No.	Category	Criteria	How to measure		Description	Applicable for		Exclusion criteria (A) Weighting criteria (B) Information criteria (I) Criteria type	Weighting > multiplied with earned points (see column E) = weighted points
			Description	Point distribution (Range 0-4 points)		Pilot service	Fully Integrated service		
1	Overhead criteria	Service is provided for free	Basic service (frame conditions are to be defined for each service when describing the service in detail, cannot be defined for all) can be provided for free	Yes/No	Within Helmholtz cloud, services shall be provided to interested centres for free while offering the initial Service Portfolio (3-5 years)	Yes	Yes	A	
2	Overhead criteria	Service is provided by a Helmholtz centre	Service provider is a Helmholtz centre /no external service provider	Yes/No	Exclude services if only provided by external service providers (DFN is also an external service provider)	Yes	Yes	A	
3	Overhead criteria	Service is ready to be integrated in less than 1 month	Service Readiness for Helmholtz cloud integration is given within 1 month (time span)	Yes/No	Service Readiness Requirements are: > ability to accommodate additional users > clarity about current limitations > conditions for offering the service to external users are clarified (especially data protection & IT security aspects) > Helmholtz Legal Framework signed (as soon as possible) > Helmholtz AAI policies have been accepted by Service Provider > Multi-tenant capability or ability to manage access rights according to different user groups Service requiring more time should come back to us as soon as they are ready	Yes	Yes	A	
4	Overhead criteria	Service is not offered with the intention of gaining profits	e.g. for the use, provision or operation of the service; self declaration given by service provider	Yes/No		Yes	Yes	A	
5	Overhead criteria	Personal data which is necessary for service operation can be processed in compliance with GDPR		Yes/No		Yes	Yes	A	
6	Overhead criteria	Service is free of advertisement; use of the service is independent from the display or consumption of not earmarked content.	Self declaration given by service provider	Yes/No		Yes	Yes	A	
7	Overhead criteria	The Service provider ensures the support for the service	Self declaration given by service provider	Yes/No	Including the processing of service disruptions as well as the correction of errors in the service (or underlying software) - and including the clear definition of the support interface (end point of support) and HIFIS Helpdesk interface	Yes	Yes	A	
8	Technical criteria	Service Provider commits to fulfill quality standards in service provisioning		Yes/No	The service needs to be able to be technically integrated into Helmholtz Cloud. Quality Standards in service provisioning are: > Session Management is implemented > On-demand self-service (still fulfilled if preceding application process for authorization are necessary, as long as these application processes are easily accessible and intuitive in handling for users) > Broad network access (which means accessibility from the internet, regardless of access regulations due to safety mechanisms) > Resource pooling > Rapid elasticity (does not only include the physical scalability of resources but also the proactive and prompt management of available resources, thus resulting in resources being released for further usage as soon as not required anymore by previous users) > Monitored service	Yes/No	Yes	A	
9	Technical criteria	Service supports automatic user provisioning via Helmholtz AAI		Yes/ No	Service generally supports automated user provisioning via Helmholtz AAI, independent from whether this is already technically implemented or not. "Automated user provisioning" means automated creation of user accounts and their quota in the service after successful Login via Helmholtz AAI and authorization. Possibly manual steps in course of the authorization or preceding application processes are not included here.	Yes/No	Yes	A	
10	Technical criteria	Service supports automatic user deprovisioning		Yes/ No	Service generally supports automated user deprovisioning, independent from whether this is already technically implemented or not. Please note that automated user deprovisioning can be handled by the Helmholtz Cloud Agent in future.	Yes/No	Yes	A	
11	Technical criteria	Service provider has a backup strategy/process established			Gives us an insight on if there is a strategy and what is included	No	Yes	A	
12	Overhead criteria	Service is explicitly important for the scientific process		Service is explicitly important in the phases "Acquire data" or "Analyze" of the scientific process: 4 Service is explicitly important in other phases of the scientific process: 2 Service is not explicitly important for the scientific process: 0	This criterion is important to give services points which do not earn points in the other Weighting criteria, e.g. science services for a smaller community. The service providers shall give us an insight on the importance of the service in the phases of the outlined scientific process: ("Plan/Research/Hypothesize" > "Acquire data (Experiment/Create or collect Data/Processing)" > "Analyze (Analyze/Conclude)" > "Publish" > "Store Data" > "Organize Data Access (FAIR/OpenAccess)" > "Evaluate Data re-use") Those services which are important in the phases "Acquire data" or "Analyze" shall earn points, since these service should be "truly scientific services"	Yes	Yes	B	1,00
13	Overhead criteria	High number of users or centres is interested in using the service		More than seven centres or more than 400 users: 4 More than five centres or more than 150 users: 3 More than three centres or more than 75 users: 2 More than one centres or more than 30 users: 1 Less/ no estimation possible: 0	Services with a large number of interested Helmholtz Cloud users or Helmholtz centres should be granted with points using this criterion. When looking at the number of interested centres, the service provider's centre doesn't count.	Yes	Yes	B	0,44
14	Overhead criteria	Service onboarding process was initiated by incubator platform	Interconnection with other platforms/ pilot projects (e.g. HAF > Heat, HAICU, HIDA, HIFIS internally etc.)	Yes: 4 No: 0	Services that support the interconnection within the incubator shall earn points > also services that support HIFIS internally e.g. HIFIS Cloud supports HIFIS Software cluster	Yes	Yes	B	0,19
15	Technical criteria	Service uses no proprietary data formats/ interfaces (no vendor lock)	Services that use open data formats earn points	No proprietary data formats/interfaces: 4 Proprietary data formats/interfaces: 0	Provider-specific data formats/ interfaces lead to forced bonds which cause e.g. high migration costs when the service is replaced by another one > not only data, but also metadata should be exportable	Yes	Yes	B	0,63
16	Technical criteria	Service may be made available for external users	Services that can be made available to (Helmholtz) external users earn points	Yes (under conditions): 4 No: 0	Organizational topic: service provider allows external users to use services on their own systems > also in terms of access rights Conditions for external usage shall be described as a part of the service catalogue entry.	Yes	Yes	B	0,25
17	Technical criteria	Service has a promising long-term perspective	Sustainable (how long a service will at least be offered by the service provider) Services shall earn points	Provider offers service for more than 3 years: 4 2-3 years: 2 less than 2 years: 0	Service provider guarantees operation of the service for x years > also based on how long the service has already been provided	Yes	Yes	B	0,25
18	Technical criteria	User effort to enable the service is as low as possible	Services that are easily enabled without/ with low user effort earn points	No enabling needed: 4 User can enable service: 2 Admin can enable service: 0		Yes	Yes	B	0,75
19	Technical criteria	Service is open source		Open Source: 4 Proprietary Software: 0		Yes	Yes	B	0,25
20	Technical criteria	Service supports FAIR data principles		Yes: 4 No: 0	Not applicable for all services; needs to be considered somehow when evaluating the services	Yes	Yes	B	0,75
21	Technical criteria	Service is accessible from an IPv6 client		Yes/No (only IPv4)	Might become a weighting or exclusion criteria in future			I	