

Accelerate your cloud-native innovation

An HPE Helion Professional Service HPE Cloud Native Agile Development Service

Let the innovation begin.

Innovation is driving unprecedented demand for applications. In addition, market forces and competition require that you bring these innovations and capabilities to the market faster than ever before. Your development efforts must leverage your existing assets where possible, provide cloud portability, and accelerate your speed to delivery with the benefits of open source while providing the quality your enterprise requires.

Vendor lock-in, available developer and operator skills are also important considerations in cloud-native development. Public clouds and proprietary PaaS and IaaS can lock your applications into systems requiring major effort and cost when business demands dictate geographic scale or economic efficiencies. The HPE Cloud Native Agile Development Service can help you build the right environment to leverage the best of open source and reduce your risk with an enterprise-ready solution.

The objective of the service is to help your teams deploy a pilot application in a cloud-native environment. The cloud-native environment could be a container on PaaS, a container on cloud, containers as a service or natively on HPE Helion OpenStack®. The service also addresses the tools and best practices to develop in an agile fashion using continuous integration and continuous delivery techniques.

Service focus areas:

Whether you develop your own cloud-native applications today or are ready to begin the cloud-native journey, the HPE Cloud Native Agile Development Service is the right way

to leverage the best of open source and build cloud-native applications. The service utilizes our Docker and Cloud Foundry® based HPE Helion Stackato as well as HPE Helion Code engine, HPE Helion OpenStack, and open source to meet your business requirements.

1. The application



Understanding your application requirements is a critical first step in cloud-native development. Applications require services, monitoring, logging, and data persistence, but they also should be architected for the cloud with a service-oriented approach. At a high level, this means stateless, the ability to scale horizontally, fail well, and provide a more seamless approach to SLA adherence utilizing cloud application techniques. The service reviews the best practices of cloud application architecture and reviews your application for building in a cloud-native environment.

2. Development environment



The development environment should optimize the developer efforts and reduce the time producing code. Reducing the cycle times between builds and reducing the manual steps are essential to developer productivity. The service reviews your current build environment and integrates containers and or PaaS with HPE and open source tools, repositories, and integrated development environments.

3. Development process



The service reviews software lifecycle best practices, packaging, branching, and release strategy as well as workflows and your processes to drive applications to production. The service can

Solution brief

deploy and integrate a best practice CI/CD tool chain including technologies such as HPE Helion Code Engine or open source tool chains to meet your business requirements.

4. Testing



Testing is also a key consideration in decreasing development cycles, automated, failure injection, testing, as well as traditional unit and integration testing. These can often be automated and tailored to your CI/CD environment with proven HPE and open source technologies for testing not only the applications but the platforms as well.

5. Platforms and production



Your cloud-native applications must have the proper environment for each phase of delivery from development through production. Building the right cloud for PaaS development, testing, staging, and production as well as execution in the public cloud or hybrid approaches, are capabilities included in this service.

A concerted approach to cloud-native development

HPE Cloud Native Agile Development Service

The HPE Cloud Native Agile Development Service was created to adapt and align to your cloud strategy, development needs, and your need to accelerate innovation within your business.

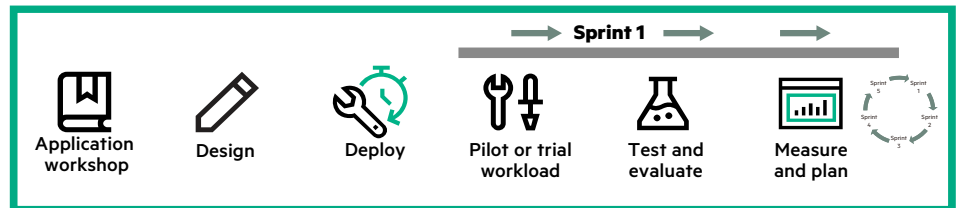
This service obtains the necessary requirements and architectures to build the development environments and tools to help you begin or improve your cloud-native development process.

About HPE Helion Professional Services

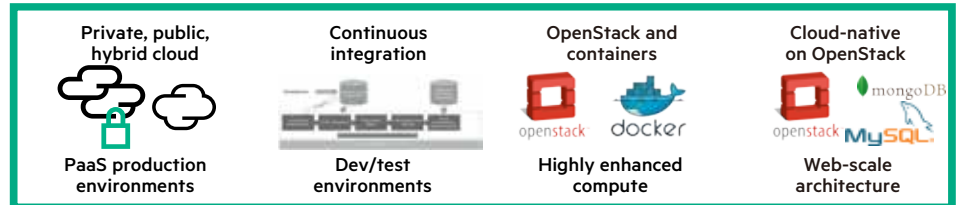
Enterprises, service providers, and governments are taking a closer look at how open source technologies can help cut costs, increase agility, enhance productivity, and provide competitive advantage. HPE Professional Services build and integrate the best of breed open source and HPE technology to yield better enterprise solutions.

HPE can help deliver on the promise of open source technologies. We not only have deep expertise of OpenStack technology, Cloud Foundry, and open source, we also understand traditional IT and other cloud technologies, so we can partner with you to deliver a Hybrid IT environment that meets your specific needs.

Agile Development Service Methodology



Cloud-native solutions



Benefits



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