

IBM WW Z Security Conference October 6-9, 2020

Hyper Protect Virtual Server in action

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Apprentice

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IBM Hyper Protect Virtual Servers

A Secure Infrastructure Foundation

IBM Hyper Protect Virtual Servers serves as both a solution for external clients to securely build Docker based applications on IBM Z and LinuxONE and a foundational component of IBM solutions

Hyper Protect Digital Assets Platform

Enabling custodians, exchanges, & Distributed Ledger Technology (DLT) ecosystem participants to protect tokenized assets and valid participants for DLT transactions

Data Privacy Passports

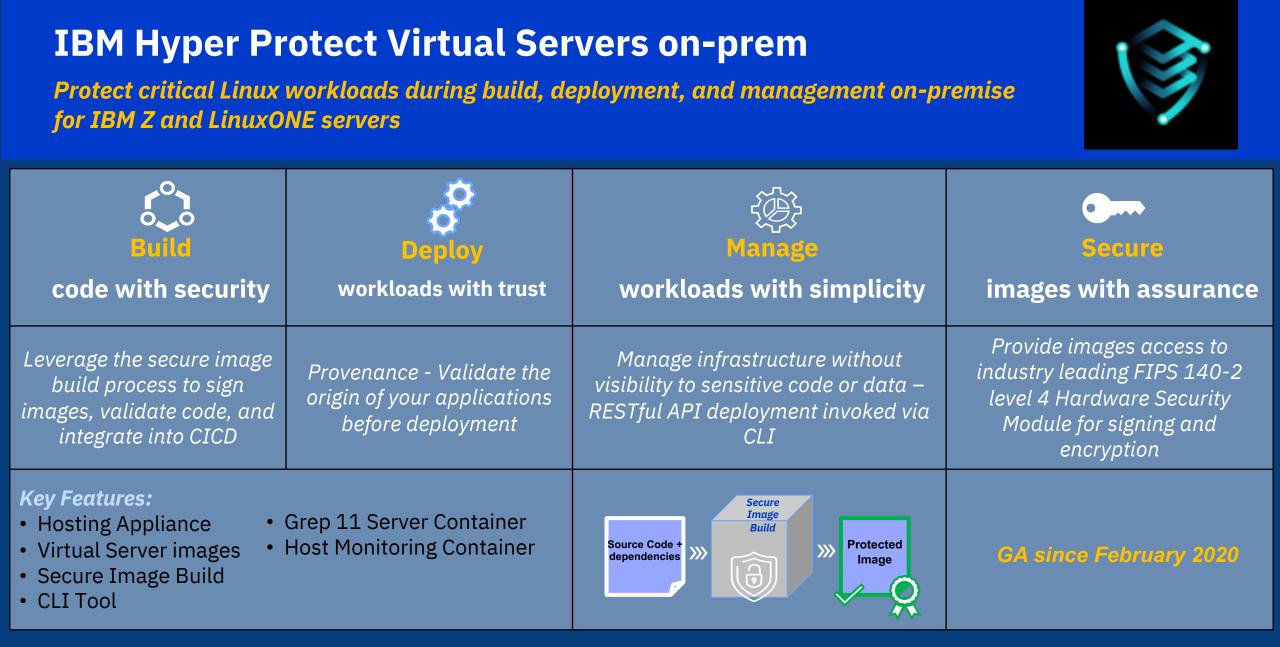
Provide a secure host environment to deploy the Passport Controller, used for policy enforcement and data transformation in Data Privacy Passports

Client Workload

Target sensitive workloads that require a high degree of isolation and data protection to meet security & compliance needs for their organization, industry, or geography



FUTURE / ROADMAP: Enable clients to securely build their Platform as a Service, protecting critical containerized workloads from even cloud / k8s administrators

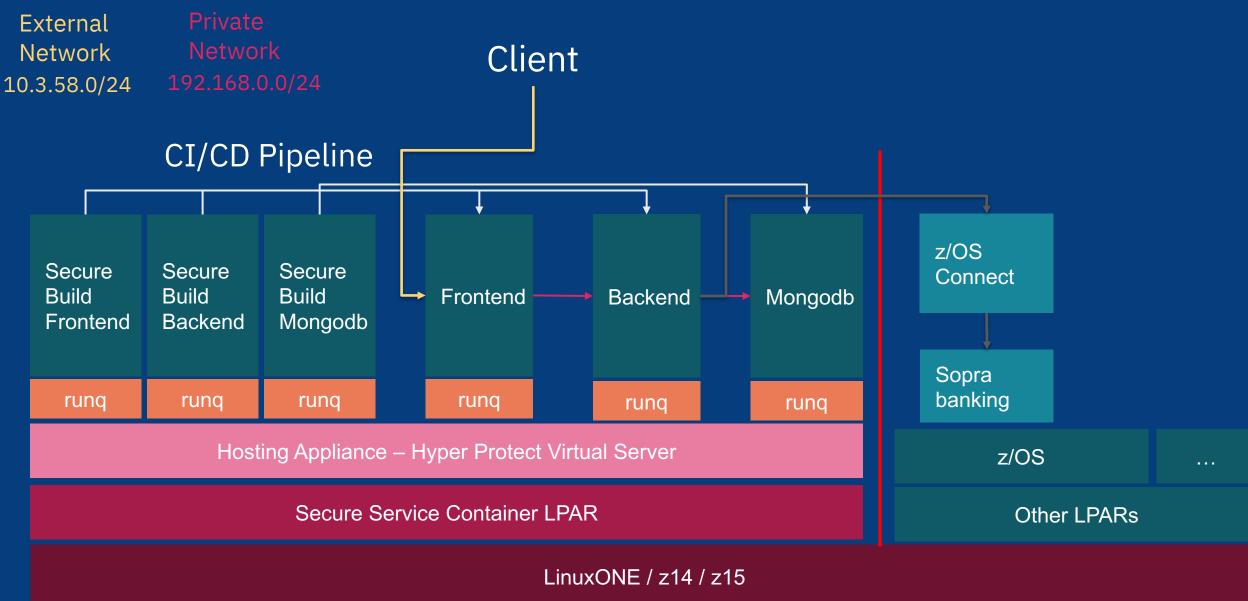


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Demonstration : Architecture





Demonstration : Roles







Developper

System Administrator

Appliance Administrator

Cloud Administrator



How to create a SSC LPAR for Hyper Protect Virtual Servers



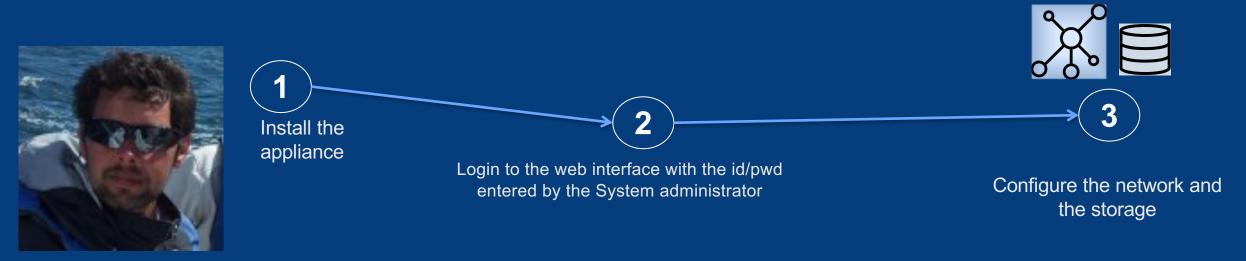
System Administrator

More details here : https://www.ibm.com/support/knowledgecenter/SSHPMH 1.2.x/topics/create ssc.html



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How to create an Hyper Protect Appliance

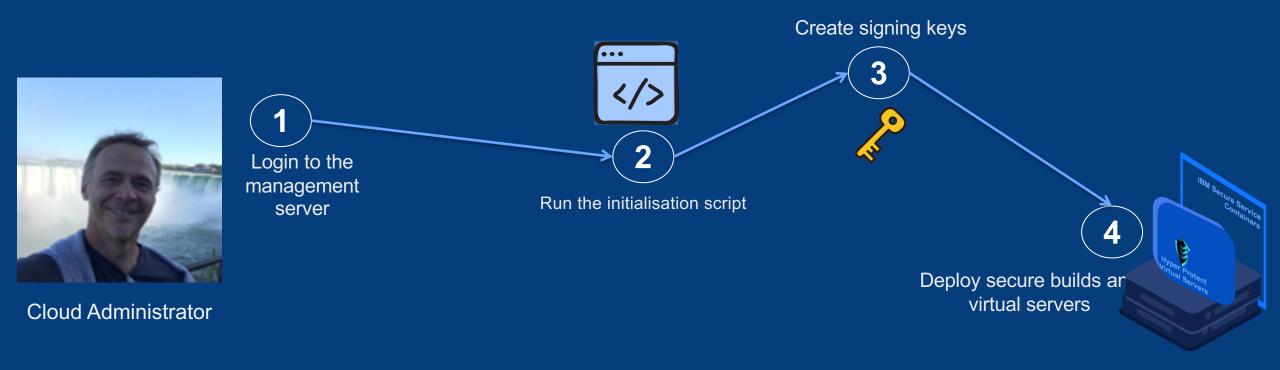


Appliance Administrator

More details here : https://www.ibm.com/support/knowledgecenter/SSHPMH 1.2.x/topics/setup ssc.html



How to configure an Hyper Protect Virtual Servers



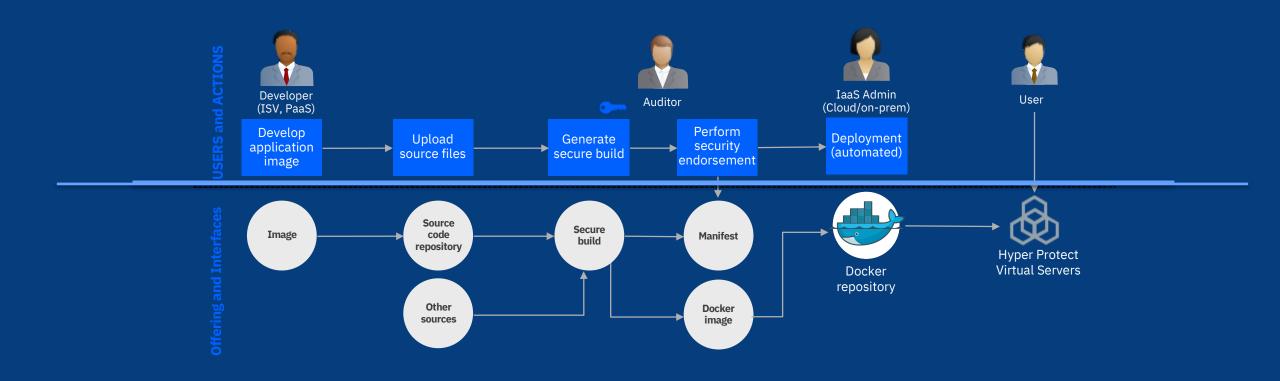
More details here : <u>https://www.ibm.com/support/knowledgecenter/SSHPMH_1.2.x/topics/setup_shscript.html</u>



How to deploy application into Hyper Protect Virtual



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How Hyper Protect Virtual Servers COMBATS risks:

- Sign application via secure build flow
- Encrypt and register application configuration info
- Check image provenance via workload manifest
- **Decrypt** application **registration file** only possible via Secure Service Container (trusted execution environment)
- Manage infrastructure via only RESTful interfaces

Thank you for your attention

