

Confidence in a connected world.

Simplifying Feature Enablement With Keyless Licensing

The Problem(s) with License Keys



- Typical scenario:
 - System Admin is deploying a new SFHA host
 - SA has taken care of the hardware setup, OS, patches and SFHA Bits
 - To make the bits functional, SA needs a valid SFHA license key...
- Where's the license key?
 - Business owner drew down the license and got the key
 - Business owner forwarded the email with the key
 - But the SA never received the email...
- SA is on a tight schedule and needs to go live asap
 - SA calls support
 - SA calls his account team
 - Both support and the account team scramble, they call PM
 - SA gets a temp key to get the system up and running...
- That temp key will pose a significant risk to production applications

Simplifying Feature Enablement



SFHA Customer Requirements

- Make it simpler to get the product up and running
- Make it simpler to report on what is deployed in the environment
- Adopting change should be an option, not a requirement

SFHA 5.1 Makes License Keys Optional at Install

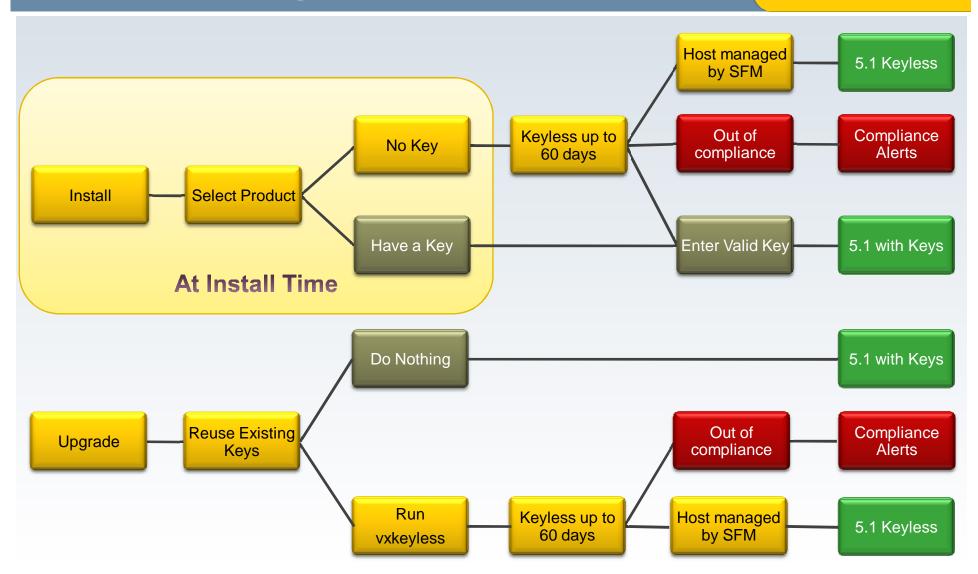
- Product is fully functional post-install, even without a license key
- User has 60 days post install to either add a key or go keyless
- Temp Keys will no longer be needed as stop-gap solutions

Keyless Licensing Requires Storage Foundation Manager

- SFHA 5.1 is keyless by default
- SFM is required for a host to be keyless for more than 60 days
- The SFM tie-in provides real-time visibility in SFHA 5.1 estate

Key Considerations At Install and Upgrade





Keyless Licensing Highlights



Keyless or not, a host MUST be entitled to run SFHA

- After 60 days, WARNING messages every 4 hours in syslog
 - Production functionality is NOT affected
- vxkeyless allows user to set and change product level
 - Set to desired level using keywords such as SFENT or SFHASTD
 - Display the level previously set
 - All changes are logged for future reference / audit
- Note that vxkeyless does not change the bits installed
- Storage Foundation Manager enables real-time visibility

Example Product Level Strings



Level	Description
SFBASIC	Storage Foundation Basic Edition
SFSTD	Storage Foundation Standard Edition
SFSTD_VVR	Storage Foundation Standard Edition with VVR
SFENT	Storage Foundation Enterprise Edition
SFENT_VVR	Storage Foundation Enterprise Edition with VVR
VCS	Cluster Server
VCS_GCO	Cluster Server with GCO option
SFHASTD	SF Standard Edition with Cluster Server
SFHASTD_VVR	SF Standard Edition with Cluster Server and VVR
SFHAENT	SF Enterprise Edition with Cluster Server
SFHAENT_VVR	SF Enterprise Edition with Cluster Server and VVR
SFHAENT_GCO	SF Enterprise Edition with Cluster Server and GCO
SFHAENT_VVR_GCO	SF Enterprise Edition with Cluster Server and VVR & GCO
SFCFSENT	SF Cluster File System Enterprise Edition
SFCFSENT_VVR	SF Cluster File System Enterprise Edition with VVR feature
SFCFSHAENT	SF Cluster File System Enterprise Edition with Cluster Server
SFCFSHAENT_VVR	SF Cluster File System Enterprise Edition with Cluster Server and VVR
SFCFSHAENT_VVR_GCO	SF Cluster File System Enterprise Edition with Cluster Server and VVR & GCO
SFCFSRACENT	SF Cluster File System for Oracle RAC Enterprise Edition (only Linux)
SFCFSRACENT_VVR	SF Cluster File System for Oracle RAC Enterprise Edition with VVR (only Linux)
SFRACENT	SF for Oracle Real Application Cluster Enterprise Edition
SFRACENT_VVR	SF for Oracle RAC Enterprise Edition with VVR
SFRACENT_GCO	SF for Oracle RAC Enterprise Edition with GCO
SFRACENT_VVR_GCO	SF for Oracle RAC Enterprise Edition with VVR & GCO

Storage Foundation Manager License Deployment Reporting (LDR)



