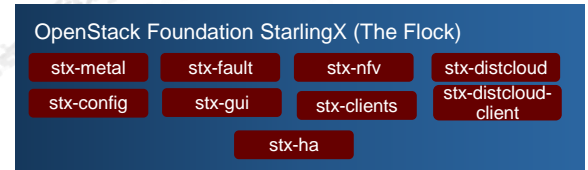




StarlingX Decoupling

Overview

- Decoupling of the seed code was required to implement the proposed project structure
- The following major work items are required:
 - Decouple sysinv component into inventory and configuration components
 - Inventory component moves to stx-metal
 - Configuration component resides in stx-config
 - Decouple stx-fm from sysinv component in stx-config
 - Decouple stx-ha from sysinv component in stx-config
 - Decouple guest agent/server from stx-metal and move to stx-nfv
 - Decouple pmon from stx-metal and move to stx-ha

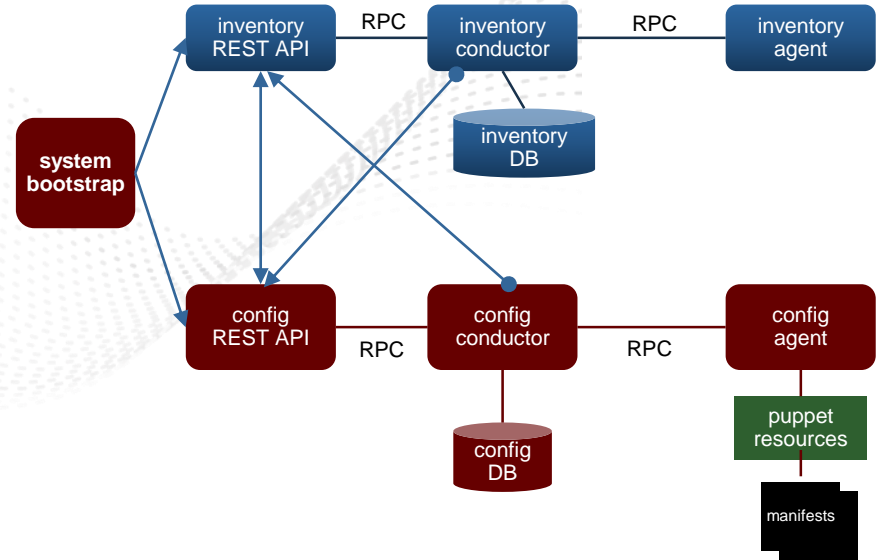


Status

- STX-FM – done
 - Successfully decoupled from stx-config
 - Now has it's own endpoints/API/client and database
- STX-HA – done
 - Successfully decoupled from stx-config
 - Now has it's own endpoints/API/client
- Move guest server/agent from stx-metal to stx-nfv – imminent
- Move pmond from stx-metal to stx-ha – not started

Inventory/System Configuration Decoupling from Sysinv

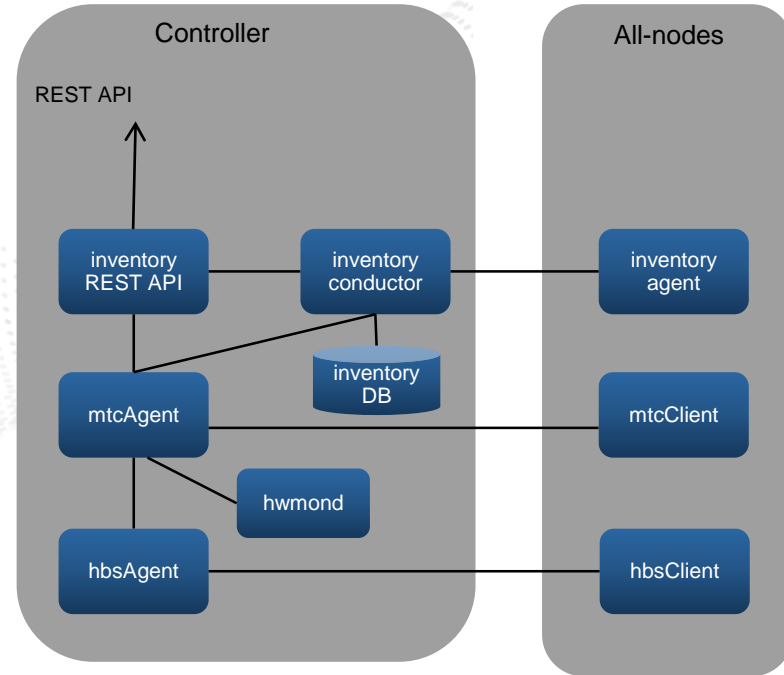
- This is by far the largest decoupling task
- Objective is to decouple the system configuration from the current sysinv subsystem
- This new subsystem would go into stx-config
- The remaining sysinv would be rebranded inventory and be moved to stx-metal



In Progress

Inventory

- Inventory responsibilities
 - Node Installation
 - H/W inventory discovery
 - CPU/Cores, hyper-threading, processors, numa nodes
 - Memory including huge pages, storage/disks
 - Ports, PCI devices, LLDP neighbor, sensors, GPU's etc.
 - Inventory audit
 - Host configuration and persistence
 - Host administrative commands



System Configuration

- System configuration responsibilities
 - Puppet hiera data generation/management
 - Runtime manifest apply
 - Service parm framework
 - System/service configuration and persistence
 - Interfaces
 - System attributes (i.e. https)
 - Address pools, NTP, DNS, OAM IP addresses, TPM
 - Certificates, remote logging, firewall rules
 - Controller filesystem management
 - Storage backend management
 - Integrated CEPH and external back ends
 - K8S node label assignments
 - HELM chart system overrides generation
 - Deployment of armada applications

