

FAST DS Overview

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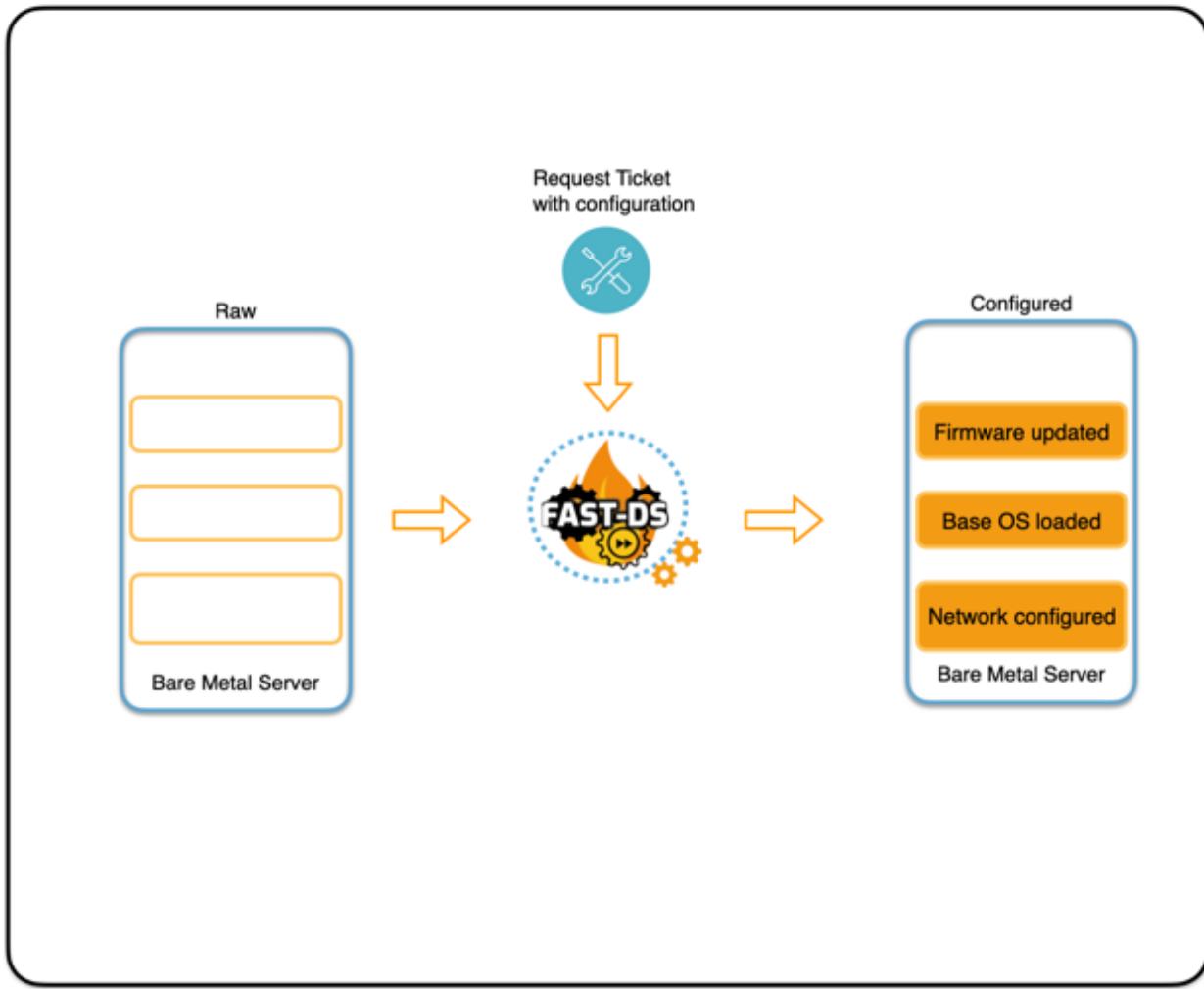
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FAST Deployment System (DS) Overview

The FAST-DS takes care of the host configuration automation process for a physically racked (raw) bare metal server or a previously configured server. Service teams can submit a ServiceNow request to get automation service for their host configuration. FAST-DS takes the input parameters provided in the ServiceNow request and returns a ready-to-use host.

In other words, FAST-DS provides complete automation, including all the tooling required to take a Bare Metal (BM) machine and set it up to be ready for use by a service team.

The following diagram illustrates a high-level summary of the FAST-DS request flow:



The FAST-DS automation process takes care of the following tasks:

- Takes a Server from Racked state to a Ready-to-Use state
- Processes a brand-new server or a previously configured one for clean deployments or updates/expansions
- Leverages existing and new ["bundles"](#)
- Provides full automation, removing bottlenecks that exist in the current flow

FAST-DS Execution Workflow

Here's a summary of the FAST-DS Execution workflow:

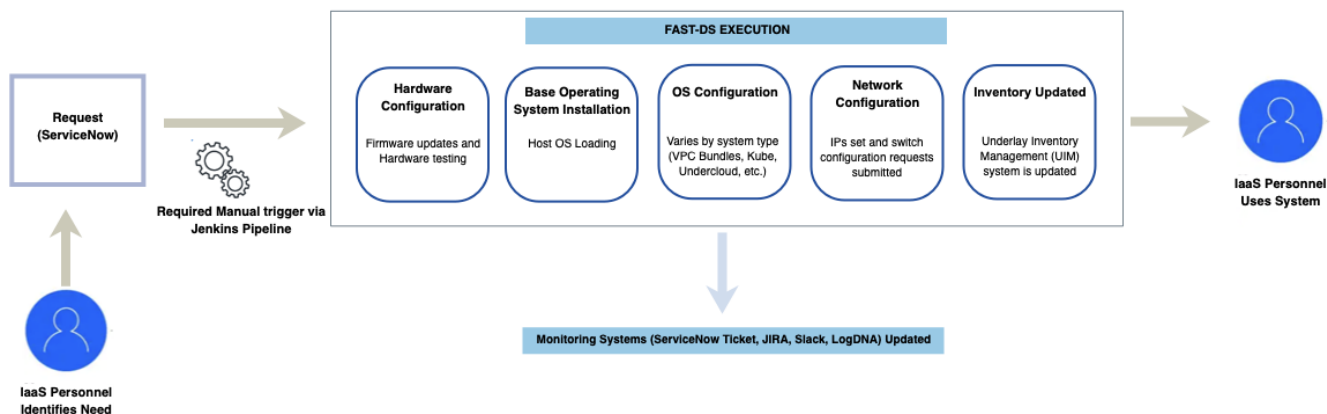
1. IaaS Team (personnel) identifies the need for a Host Configuration
2. IaaS Team member opens a ServiceNow request ticket for the Deployment Service (FAST-DS) with information on [required parameters](#)
3. A FAST-DS execution is triggered by a pipeline (manual Jenkins trigger today and automated via ServiceNow in the future)
4. FAST-DS performs the following tasks:
 - Configures hardware (firmware updates and hardware testing)
 - Installs base OS (Host OS loading)
 - Configures the OS (Task may vary by the system type; VPC Bundles, Kube, Undercloud, etc.)
 - Configures Network (Sets IPs and submits switch configuration requests)

- Updates Inventory (Updates the Underlay Inventory Management (UIM) system)

5. FAST-DS monitors all the execution tasks and outputs data to ServiceNow, JIRA, Slack, and/or LogDNA

6. System is ready-to-use by the IaaS personnel

The following diagram illustrates the FAST-DS execution workflow:



Related Documentation

- [Ephemeral FAST-DS Deployment for VPC-NG](#)
- [FAST-DS Deployment for NGDC](#)