**Home Depot**

PS Engagement Roadmap

**Summary View**

**PS Engagements**

Advanced PS

Engagement length will span 6.5-9 weeks depending on scoping call.

*\*\*Note: Official scoping and prioritization with THD needs to be accomplished prior to a firm estimate being entered in SF.\*\**

Recommended engagement ordering is implied below.

| **PS Engagement Focus** | **Summary** | **Mid-Range Estimate** | **High-End Estimate** |
| --- | --- | --- | --- |
| Health Check & Code Review | N/A | 2 Weeks | 2 Weeks |
| Upgrade from 2015.3.3 to 2016.4.2 | Upgrade  Code Manager Migration  HA  Failover | 1 Week | 2 Weeks |
| Code Manager Migration | Migrate from r10k/mco based app deployment workflow to Code Manager. Must account for additional integrations (i.e. ServiceNow) | 1 Week | 2 Weeks |
| Paired Programming | Paired programming with 2-3 people at THD. | 1 Week | 1 Week |
| System Tuning | N/A | 0.5 Week | 1 Week |
| Metrics & Reporting | Result would be metrics (i.e. hostnames/facts).  Integration with something like dashboard or Radiator. | 1 Week  *\*\*Does not include integration with a dashboard\*\** | 2 Weeks  *\*\*Includes integration with a dashboard\*\** |
| **Total** |  | **6.5 weeks** | **9 Weeks** |

**Private Virtual Training:**

**$39,000 (with vouchers exercised)**

No T&E is included in the estimates below since they are virtual courses.

| **Course** | **# Students** | **# Vouchers Used** | **Cost** |
| --- | --- | --- | --- |
| Puppet Fundamentals & Puppet Essentials for Windows | 12 | 4 = $6,000 | $18k (PF) + $6k (PEW) - $6k = **$18,000** |
| Puppet Practitioner | 12 | 4 = $6,000 | $18k - $6k = **$12,000** |
| Puppet Architect | 12 | 3 = $3,000 | $12k - $3k = **$9,000** |

*The Home Depot currently (as of 6/28/2017) has 11 training vouchers.*

**Detailed View**

Upgrade from 2015.3.3 to 2016.4.2 **(4 - 5 days?)**

This would normally take 2-3 days. HA adds a day.

+2 days if they’re using something other than Monolithic master

+1 day if we think they’re going to want a lot of hand holding or are difficult to work with

I’ll go ahead and count the r10k -> Code manager migration in this estimate...

THD has been in the process of upgrading for quite some time. They’ve completed the upgrade in dev and QA.

After the upgrade is complete THD is interested in know how they can capitalize upon new features in the LTS.

Some areas of interest are: (This is saved for a later date. I’ve got some time for discussion about this stuff)

* Code Manager / File Sync
* Orchestrator enhancements (i.e. running phased deployments / coordinated roolouts)
* Overview of new reporting functionality (i.e. corrective change reporting)
* Support for automating delivery of cloud infrastructure (i.e. THD is using Google Cloud and Cloud Foundry)
* Jenkins self-service provisioning workflows

Code Manage & File Sync Migration

This is probably one day as a stand-alone item, otherwise we’d roll it into the upgrade

Migration to Code Manager and File Sync from an r10k/MCollective workflow.

Code Review **(5 days)**

Need some idea of how big their codebase is. If they’re starting from scratch, then it’s not really a code review. More like a code workshop (if say, 5 - 10 people participating) or paired programming (if say, 1 - 3 people)

I’m going to call this a week because it’s a convenient size for either a code review, code workshop or paired programming session.

As THD begins to use Puppet for configuration management purposes they are interested in having a code review.

Essentially they are in need of the following:

* Review of code to pinpoint areas for improvement
* Code refactoring PS engagement
* Roadmap forward that outlines the rest of the work to be accomplished after PS engagement
* Peer programming

Metrics & Reporting **(5 days)**

I should ask questions here, but this is probably 3 - 5 days. I’ll go ahead and estimate 5 days. The deliverable would be something like a spreadsheet with hostnames and status of their facts.

We could offer something like integration with a dashboard or radiator, it would add another 5 days

THD is currently leveraging PuppetBoard and PQL to report on metrics. Most of reporting is home-grown at this time.

THD is looking for more robust ways to gain insights into system management and performance

The key driver here is that THD is going to begin looking at Service Level Obligations guaranteeing xyz and then show numbers that they satisfied this. For example, they will need to say they have puppet available x% of the time and show what metric supports that it’s available.

They are essentially trying to tell a deployment story that involves all the moving parts to app deployment and configuration management. They’d like to be able to show their success rates and set objectives for the future.

System Tuning **(3 Days)**

There’s some room to negotiate here. It could just be adding compile masters, which would get wrapped into the upgrade. If they want some sort of report or status, 3 days should cover it.

Being able to scale into the future is key. THD is looking to setup metrics that will allow THD to easily monitoring the health of their Puppet-managed infrastructure and teach how to easily tune Puppet to allow the system to be as performant as possible.

Failover  **1 day(already added to upgrade)**

Current failover plans include ‘home grown’ solutions.

THD is looking for guidance on how to move away from these ad-hoc solutions and move to a more PE supported, robust set of capabilities.

Would also like monitoring capabilities baked in to allow for alerting when a failure occurs.

Optional Items - These are all price book, so I’ll skip.

On-Site Fundamentals Training & Windows Essentials

On-Site Practitioner Training

Training at PuppetConf 2017