



Puppet Enterprise Standard Jumpstart Service Description

**Setup, workflows, and pair programming to help your team
get fast and sustainable results with Puppet Enterprise**

Overview	3
Recommended for	3
Consulting services description	3
Deliverables	6
Delivery approach	6
Phase 0: Kickoff call, prep, & initial discovery	6
Phase 1: Discovery	6
Phase 2: Installation	6
Phase 3: Workflow	6
Phase 4: Deployment	7
Phase 5: Documentation	7
Timeline	7
Fees	8
Key assumptions	8
Appendix 1 - Engagement technical requirements	10
Appendix 2 - Summary of roles & responsibilities	11

Overview

Puppet Consultants will provide services to help the Customer rapidly deploy Puppet Enterprise and successfully integrate it into their infrastructure. The engagement will consist of knowledge transfer and paired development.

The objective is a working implementation of Puppet Enterprise that is designed to meet the Customer's configuration management automation goals, and a Customer team that is well prepared to continue its configuration management automation effort.

Recommended for

- Installations of up to 1,500 nodes
- Small teams of up to 6 people
- Customers interested in an engagement focused on getting workflow established from the start
- Customers that want an additional week of deployment services (compared to Basic Jumpstart) to cement concepts, manage base configuration, and focus on their specific needs
- Customers that will carry forward extending configuration management post-engagement

Consulting services description

Puppet will provide the following services related to the implementation of Puppet Enterprise:

1. Pre-engagement planning and preparation

- a. Discovery call(s)
- b. Draft project plan
- c. Other preparation items as needed (research, testing, etc.)
- d. To be completed by the Customer prior to the start of the engagement:
 - i. Validate appropriate compute, network, and storage has been provisioned
 - ii. Confirm full-time availability of at least one technical contact for the duration of the engagement

2. Discovery and concept review

- a. Determine goals and business needs
- b. Provide high-level overview of Puppet concepts, if needed

3. Puppet Enterprise installation

- a. Installation of Puppet Enterprise in a Monolithic Master configuration
 - i. Add up to one compilation master for additional capacity to support up to 1,500 nodes

- b. Configure backup and maintenance of the Puppet Enterprise infrastructure
 - i. Knowledge transfer and initial configuration of Puppet Enterprise database backups and maintenance using the https://forge.puppet.com/puppetlabs/pe_database module
 - ii. Knowledge transfer of procedures for restoring the Puppet Enterprise infrastructure from backups
- c. Puppet Enterprise agent deployment
 - i. Knowledge transfer of Puppet Enterprise agent installation
 - ii. Installation of Puppet Enterprise agents on as many nodes as licensed and possible
 - iii. Knowledge transfer of options for automated Puppet Enterprise agent installation using one of the following techniques:
 - 1. Puppet Frictionless Agent Installation Tool
 - 2. Puppet Bolt and Tasks for mass agent installation via SSH/WinRM
 - 3. Windows Group Policy
 - 4. Suitable pre-existing Customer tooling
 - iv. Knowledge transfer of approaches to integrate Puppet agent installation into the Customer's OS-provisioning system

4. Puppet module abstraction best practices, as follows

- a. Knowledge transfer on Roles & Profiles pattern, which simplifies the classification of nodes, facilitates code reuse, and makes it simpler for users to have a high-level understanding of what Puppet Enterprise is managing on a system
- b. Pairing with the Customer's staff to create an initial "base" profile to manage common system settings and an additional profile to practice using the pattern
- c. High-level definition of at least 3 additional roles and the profiles they include, which provides a "business-level" view of what Puppet Enterprise is managing on a node, such as "Web Server" or "Database Server"
- d. Knowledge transfer on the use of the Node Classifier, which is used to assign roles, profiles, and component module code to managed nodes
- e. Setup of at least 3 Node Classifier node groups to practice use of the Node Classifier

5. Collaborate on component module development

- a. Pair with Customer to create at least 1 simple (fewer than 10 resources) module as a training exercise in module development
- b. Pair with Customer to convert at least 2 short (fewer than 100 lines) scripts into Puppet modules using the version control workflow OR to select appropriate Forge modules as replacements

6. Collaborate on Hiera for Code-Data Separation to increase module reusability

- a. Knowledge transfer on the appropriate use of Hiera and effective hierarchy design

- b. Pair with Customer to create a simple Hiera hierarchy containing a demonstrative number of facts (no more than 4 levels) as an introduction to the use of Hiera
- c. Knowledge transfer on debugging Hiera

7. Collaborate on how to use Forge modules

- a. Pair with Customer to select appropriate modules from the Puppet Forge for incorporation into the profiles created in step 4(b) to give insight into how to pick modules and assess their quality. Please see Key Assumption 10 for limitations.

8. Workflow setup, as follows

- a. Review of version control system options and assistance in selecting one that meets Customer requirements and is supported by Puppet Code Manager or r10k (e.g., GitLab, GitHub, GitHub Enterprise, Bitbucket Enterprise)
- b. Configure Puppet Code Manager or r10k to manage Puppet code and Hiera data on the Puppet master
 - i. Explain the purpose of a “Control Repo” and assist in its creation
 - ii. Explain the purpose of a Puppetfile for module pinning and assist in its creation

9. Deploy Puppet code with Puppet code development workflow

- a. Pair with the Customer to deploy the profiles and component modules to one Puppet code environment of the Customer’s choice
- b. Knowledge transfer of techniques for promoting Puppet modules through pre-production environments (i.e., Dev, Test, Q/A, Staging)
- c. If time allows and the Customer’s IT infrastructure and processes permit, the Puppet Consultant will pair with the Customer’s staff to demonstrate the promotion of Puppet code to at least one additional environment

10. Recap meeting to close out engagement and to reinforce all concepts covered

Deliverables

1. Puppet Enterprise installation
2. Puppet Enterprise agent deployment on as many nodes as possible
3. Workflow setup
4. Pair programming sessions
5. Post-engagement documentation, including:
 - a. Puppet Enterprise installation details
 - b. Workflow summary
 - c. Recap of work performed
 - d. Recommendations

Delivery approach

Our delivery approach is designed to effectively deliver fast time to value with Puppet Enterprise. We work with you throughout the engagement to implement your base configuration management and prepare you to extend configuration management to additional nodes and applications.

Phase 0: Kickoff call, prep, & initial discovery

The Puppet Consultant will spend up to 8 hours performing preparation and discovery work prior to the engagement. This includes pre-engagement call(s) with the Customer to discuss logistics and begin the discovery phase, project planning and preparation, and creation and review of an initial project plan.

Phase 1: Discovery

The Puppet Consultant collaborates with the Customer to understand their technical and business goals, checks their high-level understanding of how Puppet Enterprise works and fills in any gaps, and fills in any blanks in the project plan.

Phase 2: Installation

The Puppet Consultant and Customer install Puppet Enterprise and configure the various workflow components. Time is spent reviewing the nuts and bolts of maintaining these systems to ensure the Customer understands and can maintain them.

Phase 3: Workflow

The Puppet Consultant collaborates with the Customer team to design and implement a module development workflow that is tailored to the Customer's organizational structure and needs. The Puppet Consultant then pairs with the Customer team to convert an existing script into a Puppet module using the workflow, in order to provide hands-on experience.

Phase 4: Deployment

The Puppet Consultant pairs with the Customer team to bring nodes and services under Puppet Enterprise management. Some base configuration items will be managed on at least some test nodes by the time the engagement ends. Next steps and recommendations are discussed, and the time spent pairing leaves the Customer with hands-on experience bringing configuration items under management with Puppet Enterprise.

Phase 5: Documentation

The Puppet Consultant will spend eight (8) hours completing engagement documentation. The final documentation deliverable will be provided to Customer within five (5) business days of the end of the engagement, and will consist of the following:

- Engagement recap

- Architecture description and diagrams
- Workflow description and usage
- Recommendations for future enhancements to the Puppet Enterprise solution

Timeline

Phases 1-4 of the Puppet Enterprise Standard Jumpstart (as outlined in this service description) require 8 days (64 hours), delivered over two weeks, to complete. In addition to this, 16 hours are set aside for preparation and documentation, with each requiring approximately 8 hours. The chart below reflects the expected project timeline.

Phase	Pre-engagement	Week 1				Week 2	Post-engagement
		Day 1	Day 2	Day 3	Day 4	Days 5-8	
Preparation							
Discovery							
Installation							
Workflow							
Deployment							
Documentation							

Fees

Product description	Hours	Cost
Puppet Enterprise Jumpstart: Standard	Up to 80	\$23,995.00

The fees for this project will be a fixed price for up to a maximum of 80 hours. Puppet will use best efforts to complete the Services within this timeframe, but this project will be deemed completed if the maximum number of hours is reached.

Services for this engagement will be provided remotely, unless Customer and Puppet mutually agree the Services will be performed on-site. In addition to the fees above, Customer will be responsible for travel and expenses for on-site Services. A travel and expense estimate will be provided on the quote and billed at actuals not to exceed the estimate, unless otherwise specified in the quote that travel and expenses will be invoiced in full at the time of purchase. Any quote that does not include a travel and expense estimate will be performed remotely.

Key assumptions

The following assumptions are reflected in the services, timeline, and estimated effort outlined in this service description:

1. Phases 1-4 of the engagement (as outlined in this service description) will be performed in two weeks during normal business hours (Monday through Thursday, 8:00 a.m. - 5:00 p.m. local time), unless otherwise agreed to in writing by the parties.
2. Customer will provide prompt feedback on all deliverables.
3. Customer will provide prompt access to all systems and resources that Puppet will need in order to complete the work.
4. Customer must provide a single point of contact that will be available full time throughout the duration of the engagement.
5. Customer will provide Puppet with documentation and access to subject matter experts for non-Puppet systems/software within the scope of the engagement.
6. Customer will have identified key personnel prior to the beginning of the engagement.
7. Customer will have all necessary security exceptions, firewall rules, network routers, computer and storage resources available prior to the start of the engagement, as detailed in Appendix 1 of this service description.
8. Puppet does not provide support for third-party software that is implemented as part of a Puppet Enterprise solution, such as version control systems, repository management, packaging, and other software that is not part of the Puppet Enterprise stack.
9. Forge modules may not exist for the Customer's specific use case. Puppet makes no guarantees about specific modules being available on the Puppet Forge. Any alteration to pre-existing Forge modules to meet Customer needs will be at Puppet's discretion and will be the responsibility of the Customer to support and maintain post-engagement.
10. Module development and/or automation task implementation is confined to work that can be reasonably completed within the engagement's allocated hours. As a result, such work may not occur, may be incomplete, and/or may require further effort from the Customer to complete post-engagement.

Appendix 1 - Engagement technical requirements

A successful consulting engagement requires advance preparation. Failure to meet these pre-engagement requirements will have a direct impact on the completion of all the goals of the engagement.

The Customer is expected to review all requirements. Any requirements that are not met should be reported during the pre-engagement call or earlier. Puppet and the Customer will discuss the issues and determine whether to delay the engagement or attempt to work around the issue during the engagement.

Standard Jumpstart requirements

[The pre-engagement technical requirements](#) must be verified and completed by the Customer prior to the engagement. Failure to complete these will negatively impact Puppet's ability to meet all deliverables in the time allotted. Puppet bears no responsibility for delays due to incomplete pre-engagement requirements.

Appendix 2 - Summary of roles & responsibilities

- Puppet Consultant:** This refers to the Puppet Consultant who will be responsible for the delivery of the engagement. They will be involved in most if not all aspects of the engagement.
- Puppet Practitioner:** The Puppet Practitioner is the Customer's technical point of contact who is primarily responsible for the Puppet Enterprise implementation and is assumed to be championing the continued expansion of the usage of Puppet Enterprise post-engagement. They bear the majority of the responsibility for working with Puppet during the engagement and are expected to be present for ~75% of the engagement. Their schedule should be adjusted to ensure they are able to give the engagement the focus necessary.
- Manager/Director:** This is most often the buyer or project sponsor at the Customer. Their role is to be aware of what is happening as part of the engagement and act as a point of contact/escalation should any assistance be needed from other groups, or if work is blocked at a level that the Practitioner cannot resolve.
- Subject Matter Experts:** Subject Matter Experts are the technical specialists in non-Puppet systems/software who are aware of but may not be heavily involved in the use of Puppet Enterprise. This may include networking, provisioning, database, application, and development teams, or any other group that might be valuable to speak with as part of this engagement.

Note: Any group that has the potential to block progress during the engagement should be informed that the engagement is taking place so they are equipped to respond to any urgent requests.

Responsibilities (? = may need to be involved)	Puppet Consultant	Puppet Practitioner	Manager/ Director	SME
Preparation				
Review and verify pre-engagement requirements are met via email		✓	?	?
Pre-engagement preparation	✓	✓	✓	?
Pre-engagement kickoff call	✓	✓	✓	?
Pre-engagement discovery call(s)	✓	✓		?
Discovery				
Kickoff/discovery meeting	✓	✓	✓	✓
Finalize project plan	✓	✓	✓	
Puppet concept overview (if required)	✓	✓		

Install				
Install Puppet Enterprise in monolithic configuration	✓	✓		
Review Puppet Enterprise maintenance & backups	✓	✓		?
Install Puppet Enterprise agent on as many nodes as possible	✓	✓		
Knowledge transfer on how to automate install of remaining agents	✓	✓		
Pair on automating agent install during provisioning	✓	✓		?
Workflow				
Discuss and set up git server, if required	✓	✓		?
Set up Git/Code Manager or r10k Version Control Workflow (SME needed if a pre-existing git server exists and is not controlled by Practitioner)	✓	✓		?
Knowledge transfer of version control workflow	✓	✓		
Pair programming to practice workflow	✓	✓		
Knowledge transfer on roles & profiles	✓	✓		
Knowledge transfer on Hiera & creation of initial hierarchy	✓	✓		?
Deploy				
Incorporate Forge modules (SME needed for details Practitioner may not have)	✓	✓		?
Convert existing script(s) into Puppet modules	✓	✓		
Deploy managed configurations on pre-production environments	✓	✓		
Handoff call with support	✓	✓	✓	
Close-out meeting	✓	✓	✓	?
Documentation				
Create final documentation	✓			
Review and check-in final documentation to version control		✓	?	

? = May be needed

✓ = Required