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Puppet (software) Interview questions

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Question1. What Is Puppet?

Answer : Puppet is a configuration Tool which is use to automate administration tasks. Puppet Agent(Client) sends request to Puppet Master (Server) and Puppet Master Push Configuration on Agent.

Question2. What Is Manifests ?

Answer : Manifests, in Puppet, are the files in which the client configuration is specified.

Question3. What Is Module And How It Is Different From Manifest ?

Answer : Whatever the manifests we defined in modules, can call or include into other manifests. Which makes easier management of Manifests.It helps you to push specific manifests on specific Node or Agent.

Question4. What Are The Commands To Check Requests Of Certificates ?

Answer :

- puppetca -list (2.6)
- puppet ca list (3.0)

Question5. What Are The Commands To Sign Requested Certificates ?

Answer :

- puppetca --sign hostname-of-agent (2.6)
- puppet ca sign hostname-of-agent (3.0)

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Question6. Where Puppet Master Stores Certificates?

Answer : /var/lib/puppet/ssl/ca/signed

Question7. What Is Factor?

Answer : Sometime you need to write manifests on conditional expression based on agent specific data which is available through Factor. Factor provides information like Kernel version, Dist release, IP Address, CPU info and etc. You can defined your factor also.

Question8. What Is The Use Of Etckeeper-commit-post And Etckeeper-commit-pre On Puppet Agent ?

Answer :

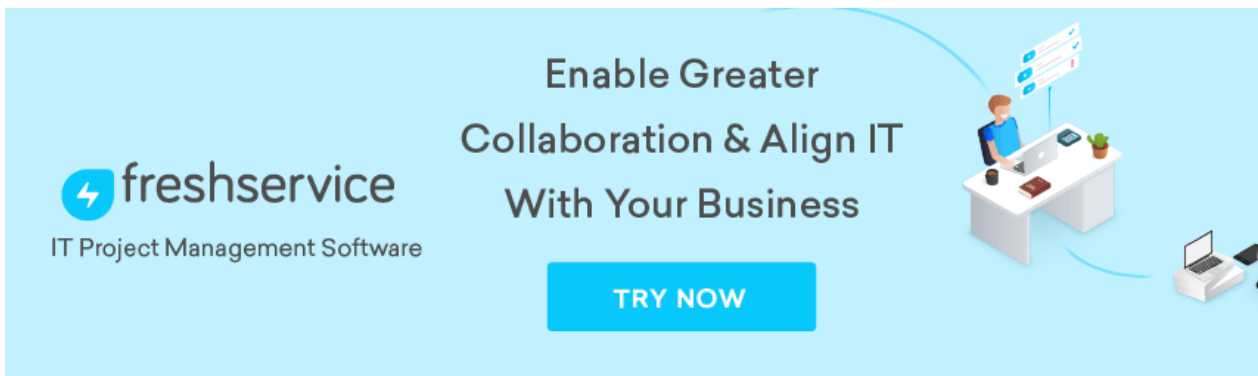
- **etckeeper-commit-post:** In this configuration file you can define command and scripts which executes after pushing configuration on Agente
- **etckeeper-commit-pre:** In this configuration file you can define command and scripts which executes before pushing configuration on Agent

Question9. What Is Puppet Kick ?

Answer : By default Puppet Agent request to Puppet Master after a periodic time which known as "runinterval". Puppet Kick is a utility which allows you to trigger Puppet Agent from Puppet Master.

Question10. What Is Mcollective ?

Answer : MCollective is a powerful orchestration framework. Run actions on thousands of servers simultaneously, using existing plugins or writing your own.



Question11. What's Special About Puppet's Model-driven Design?

Answer : Traditionally, managing the configurations of a large group of computers has meant a series of imperative steps; in its rawest state, SSH and a for loop. This general approach grew more sophisticated over time, but it retained the more profound limitations at its root.

Puppet takes a different approach, which is to model everything — the current state of the node, the desired configuration state, the actions taken during configuration enforcement — as data: each node receives a catalog of resources and relationships, compares it to the current system state, and makes changes as needed to bring the system into compliance.

The benefits go far beyond just healing the headaches of configuration drift and unknown system state: modeling systems as data lets Puppet simulate configuration changes, track the history of a system over its lifecycle, and prove that refactored manifest code still produces the same system state. It also drastically lowers the barrier to entry for hacking and extending Puppet: instead of analyzing code and reverse-engineering the effects of each step, a user can just parse data, and sysadmins have been able to add significant value to their Puppet deployments with an afternoon's worth of perl scripting.

Question12. Why Does Puppet Have Its Own Language? Why Not Use Xml

Or Yaml As The Configuration Format? Why Not Use Ruby As The Input

Language?

Answer : The language used for manifests is ultimately Puppet's human interface, and XML and YAML, being data formats developed around the processing capabilities of computers, are horrible human interfaces. While some people are comfortable reading and writing them, there's a reason why we use web browsers instead of just reading the HTML directly. Also, using XML or YAML would limit any assurance that the interface was declarative — one process might treat an XML configuration differently from another

Question13. Can Puppet Manage Workstations?

Answer : Yes, Puppet can manage any type of machine, and is used by many organizations that have a mix of laptops and desktops.

About Embedded Linux



Question14. Does Puppet Run On Windows?
(<https://www.wisdomjobs.com/e-university/linux-embedded-systems-tutorial-298/why-use-embedded-linux-9907.html>)

Answer : Yes. As of Puppet 2.7.6 based on Windows, the Puppet on Windows page, and bug report introduction-9907.html)

Question15. What Size Organizations Should Use Puppet?
Why Use Embedded Linux?

Answer : There is no minimum or maximum organization size that benefit. Organizations with servers to be a real problem to manage manually.

Question16. My Servers Are All Unique; Can Puppet Still Be Used?
Technical Reasons To Use Embedded Linux

Answer : Yes. All servers are at least somewhat unique, but very similar. Servers will always differ, but nearly every server runs a relatively standard operating system. Servers are also often very similar to other servers within a single organization — all Solaris servers might have roughly equivalent configurations.

Standards Based
other organizations. Finally, servers are often managed manually with no attempt at retaining consistency. Puppet can help both on the side of consistency that should exist, even if the configuration is unique.

on any type of data like operating system, process isolation and control. Puppet can be used to handle uniqueness, either by allowing unique or through specifying exceptions to the standard classes.

Question17. Who Is Puppet Labs?
tutorial-298/process-isolation-and-

Answer : Puppet Labs (formerly Red Hat Puppet Labs) is a small, private company focused on re-framing the server automation problem. Peripheral Support

Question18. How Should I Upgrade Puppet And Facter?
university/linux-embedded-systems-tutorial-298/peripheral-support-system's package management system, using either your vendor's repository or one of Puppet Labs' public repositories.

Windows?

types and providers do run on Windows. More information and patches are welcome.

ns Should Use Puppet?

um organization size that benefit. Organizations with servers to be a real problem to manage manually.

ique; Can Puppet Still Be Used?

newhat unique, but very similar. Servers will always differ, but nearly every server runs a relatively standard operating system. Servers are also often very similar to other servers within a single organization — all Solaris servers might have roughly equivalent configurations.

— even if they're very different from servers in other organizations. Finally, servers are often managed manually with no attempt at retaining appropriate consistency.

ncy and uniqueness. Puppet can be used to express consistency spans arbitrary sets of servers based on data centre, or physical location. Puppet can also be used to provision special provision of what makes a given host different from otherwise standard classes.

ve Labs) is a small, private company focused on re-

Puppet And Facter?

grade Puppet and Facter is via your operating system's package management system, using either your vendor's repository or one of Puppet Labs' public repositories.

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If you have installed Puppet from source, make sure you remove old versions entirely (including all application and library files) before upgrading. Configuration data (usually located in /etc/puppet or /var/lib/puppet, although the location can vary) can be left in place between installs.

Question19. What Characters Are Permitted In A Class Name? In A Module Name? In Other Identifiers?

Answer : Class names can contain lowercase letters, numbers, and underscores, and should begin with a lowercase letter. "::" can be used as a namespace separator.

The same rules should be used when naming defined resource types, modules, and parameters, although modules and parameters cannot use the namespace separator.

Variable names can include alphanumeric characters and underscores, and are case-sensitive.

Question20. How Do I Document My Manifests?

Answer : The puppet language includes a simple documentation syntax, which is currently documented on the Puppet Manifest Documentation wiki page. The puppetdoc command uses this inline documentation to automatically generate RDoc or HTML documents for your manifests and modules.



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