

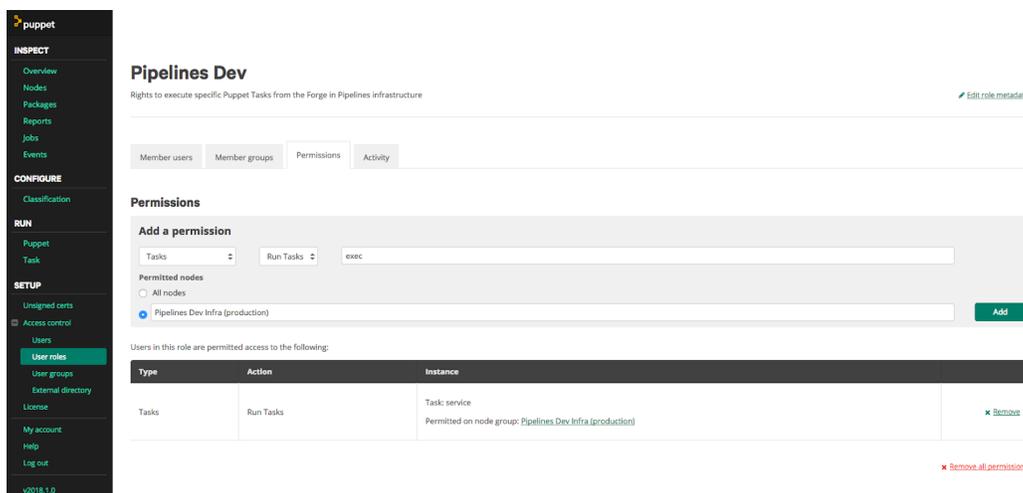
What's New in Puppet Enterprise® 2018.1

The de facto automation standard just got even better.

Puppet Enterprise 2018.1 says yes to anything you want to manage, improving on its robust model-driven and task-capable automation platform by delivering more granular control over users, a faster and more user-friendly console, all-new backup and recovery capabilities, and long-term release support that gives enterprises the confidence to scale automation across hundreds of thousands of on-premises and cloud resources.

Assign Puppet Task Authority Down to the Node

Users now have the most granular control over Puppet Tasks™ ever. PE 2018.1 enables administrators to delegate work in a surgical manner, allowing them to assign certain tasks on certain nodes to specific roles. We've also added RBAC to our dynamic node groups, which let teams design rules for granting rights. For example, as new machines are added to the production web cluster, your Site Reliability Engineer can automatically be granted rights to run troubleshooting tasks against those nodes. Logging and auditing is built in, too. Regardless of whether you're automating desired state or one-off changes, PE automatically keeps track of who did what and when.



Backup and Recovery Made Easy

Puppet Enterprise 2018.1 introduces new tooling to backup and restore your Puppet infrastructure, making it straightforward to quickly reproduce business-critical infrastructure in the event of catastrophe. Automation has long been a core part of disaster recovery planning, and it's now even easier to incorporate Puppet Enterprise into those plans. Combined with its high-availability features, Puppet Enterprise is always ready if there's an outage in your data center or cloud.

UI Workflows that Make Your Life Easier

A number of improvements, both visible and under the hood, make the Puppet Enterprise 2018.1 console the best ever. Optimized views and load times mean faster screen refreshes, even if you're managing more than 100,000 nodes and resources. New contextual help in the form of in-console metadata offers better inline documentation, and users can run jobs on entire node groups or execute searches across the console using PQL to better target actions to infrastructure.

Puppet Enterprise 2018.1 continues to improve the accessibility of Puppet Enterprise's web UI, too. If you use a screen reader, work exclusively with a keyboard, or see color differently, the console is better suited for your work.

```
[root@a7d01b8985fmkz1 ~]# puppet backup restore /var/puppetlabs/backups/pe_backup-2018-04-10_21_28.11_UTC.tgz --scope=certs
Checking for disk space to restore.
Disk space available.

Restoring backup file /var/puppetlabs/backups/pe_backup-2018-04-10_21_28.11_UTC.tgz
Scope: certs
Backup size: 45.94 KB
Backup PE version: 2018.1.0

Restoring to:
Master: a7d01b8985fmkz1.delivery.puppetlabs.net
PE version: 2018.1.0

This typically takes about 20 minutes, but in some cases could take several hours.
Continue with restore? Y/n

Log messages will be saved to /var/log/puppetlabs/pe-backup-tools/restore.log

Step 1 of 4: Stopping PE related services
Step 2 of 4: Cleaning the agent certificates from previous PE install
Step 3 of 4: Restoring PE file system components
Step 4 of 4: Configuring PE on newly restored master

Backup restored.
Time to restore: 2 min, 23 sec
Size: 45.94 KB, Scope: certs

Now run the following commands to check that Puppet Enterprise is running as expected.
If you had previously configured Code Manager in the backup you restored from, first run:
puppet access login
puppet code deploy --all --wait
Regardless if you have configured Code Manager, run the following:
puppet agent --test

[root@a7d01b8985fmkz1 ~]# clear && puppet backup create --scope=code,certs
Starting PE backup process. Note: The backup process does not disrupt Puppet Enterprise services.

Checking disk space for backup.

Estimated backup size: 49.29 KB
Estimated space needed to back up: 98.57 KB
Disk space available: 14.79 GB

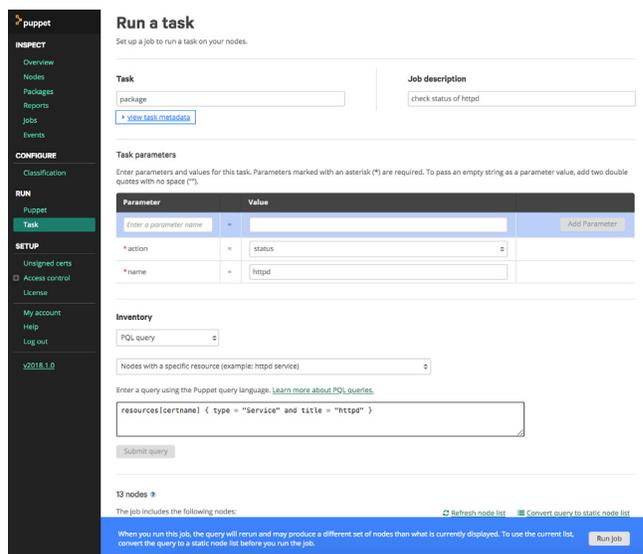
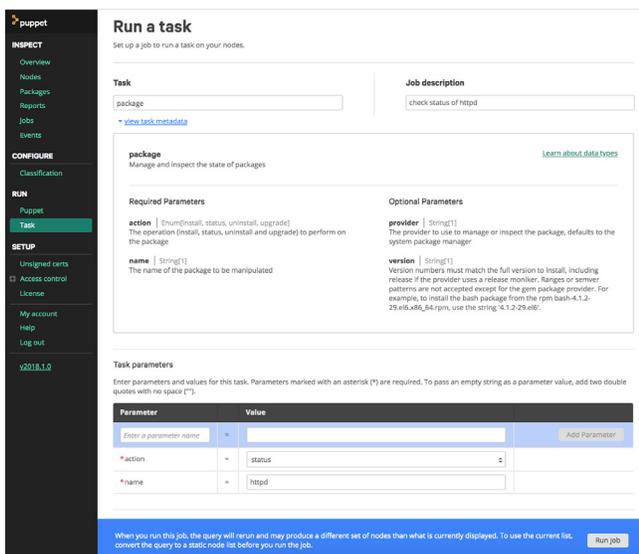
Creating backup at /var/puppetlabs/backups/pe_backup-2018-04-10_22_05.50_UTC.tgz
Log messages will be saved to /var/log/puppetlabs/pe-backup-tools/backup.log

Step 1 of 2: Creating file system backup
Step 2 of 2: Compressing archive file to backup directory

Success! Backup of 'code', 'certs' is 22.14 KB.

/var/puppetlabs/backups/pe_backup-2018-04-10_22_05.50_UTC.tgz

Move your backup to another location. Be sure to keep your backups in a safe location that is not on the master.
[root@a7d01b8985fmkz1 ~]#
```



Support for Puppet Development Kit (PDK)

To some degree, all Puppet users are Puppet code developers. Even if they're mostly adopting existing modules, they still write Puppet code when composing high-level building blocks that define the state of their infrastructure. The Puppet Development Kit (PDK) was created to give users prescriptive tools and best practices for testing their Puppet code. It offers a collection of tools in a powerful all-in-one package that helps users develop, test, convert and update modules right from a Windows, Mac or Linux workstation. With the simple unified interface, you can catch issues before Puppet code is applied to live infrastructure, and get going faster with a complete Puppet development environment.

Starting with version 1.5 and later, Puppet Development Kit is now officially supported for Puppet Enterprise customers on currently supported versions. That means you can work with confidence knowing the PDK is backed by guaranteed response times, a helpful knowledge base, and professional support engineers to guide you. [Download the PDK](#)

Long-term support release

Puppet Enterprise 2018.1 is the next long-term support release, succeeding version 2016.4. A lot has changed in these two years, and Puppet Enterprise now has the ability to:

- Execute one-off change in any language with Puppet Tasks™
- Run Puppet from anywhere
- Discover unmanaged packages with Package Inspector
- Scale out nodes and resource data (runs on 100,000+ vs. 10,000+ nodes)
- Keep Puppetizing through failures with High Availability
- Support the Japanese language
- Support ARM-based systems (aarch64)
- Take advantage of a Puppet-based Installer (simpler and self-healing upgrades)
- Help users write better code faster with the Puppet Development Kit

Download or upgrade Puppet Enterprise today:

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