Using and Installing Perl

Puma
Perl is installed on the operating system of each node and is currently at 5.16.3. `perl --version`

ElGato
Perl is installed on the operating system of each node and is currently at 5.16.3. `perl --version`

Ocelote
There are two versions of Perl available on Ocelote

1. Perl 5.10.1 is the default if you just want to use the system version. Try `perl --version`
2. Perl 5.22.1 is the default module provided with `module load perl; instmodsh`

Perl Module Policy
We will provide a version of perl through modules or the operating system and the user is expected to create their own perl environment using perl-virtualenv.

Here is a useful Perl tutorial: [http://www.tutorialspoint.com/perl/perl_modules.htm](http://www.tutorialspoint.com/perl/perl_modules.htm)
Additionally, O'Reilly Media is a well regarded source for Perl

Installing Perl Packages Using perl-virtualenv
One of the best things about Perl is the number of packages provided by the user community. Installing packages generally requires root access but that is not a viable solution in the HPC environment.

There is an easy solution. You can use perl-virtualenv to create a personal Perl environment that will persist for each time you log in. There is no risk of packages being updated under you for another user.

Here is an example session:
module list
Currently Loaded Modulefiles:
  1) pbspro/13.0.2.153173  2) gcc/5.2.0

module load perl

perl: /cm/shared/uaapps/perl/5.22.1/bin/perl
venv: /home/u13/netid/my_project

source my_project/bin/activate
Attempting to create directory /home/u13/chrisreidy/my_project

(c_project) perl

$ cpanm -i Config::Trivial
--> Working on Config::Trivial
Fetching http://www.cpan.org/authors/id/A/AT/ATRICKETT/Config-Trivial-0.81.tar.gz ... OK
Configuring Config-Trivial-0.81 ... OK
=> Found dependencies: Pod::Coverage, Test::Pod::Coverage, IO::Capture
--> Working on Pod::Coverage
Fetching http://www.cpan.org/authors/id/R/RC/RCLAMP/Pod-Coverage-0.23.tar.gz ... OK
Configuring Pod-Coverage-0.23 ... OK
Building and testing Pod-Coverage-0.23 ... OK
Successfully installed Pod-Coverage-0.23

--> Working on Test::Pod::Coverage
Fetching http://www.cpan.org/authors/id/N/NE/NEILB/Test-Pod-Coverage-1.10.tar.gz ... OK
Configuring Test-Pod-Coverage-1.10 ... OK
Building and testing Test-Pod-Coverage-1.10 ... OK
Successfully installed Test-Pod-Coverage-1.10

--> Working on IO::Capture
Fetching http://www.cpan.org/authors/id/R/RE/REYNOLDS/IO-Capture-0.05.tar.gz ... OK
Configuring IO-Capture-0.04 ... OK
Building and testing IO-Capture-0.04 ... OK
Successfully installed IO-Capture-0.05
Building and testing Config::Trivial-0.81 ... OK
Successfully installed Config::Trivial-0.81
4 distributions installed