

IEPM Topology Analysis Repository

Introduction

The Topology SVN houses all IEPM programs and scripts in relation to topology analysis and visualisation. The following is a listing of the currently modules and files related to the project:

```
[ytl@slac:~/svn/topology/trunk]$ tree
.
|-- bin
|   |-- asn.pl
|   |-- traceroute_topology.pl
|-- doc
|-- lib
|   |-- IEPM
|   |   |-- Topology
|   |   |   |-- ASGroup.pm
|   |   |   |-- Canvas
|   |   |   |   |-- Graphviz.pm
|   |   |   |-- Canvas.pm
|   |   |   |-- Link
|   |   |   |   |-- Graphviz.pm
|   |   |   |-- Node
|   |   |   |   |-- Graphviz.pm
|-- unit_tests
|   |-- test_canvas-graphviz.pl
|   |-- test_iepm-db-topology.pl
|   |-- test_topology.pl

9 directories, 10 files
```

The libs should be included in your `PERL5LIB` path in order for the modules to function. There are also some dependencies upon the base `iepm` project libraries.

bin

File	Description	Dependencies
asn.pl	This script determines AS information for supplied IP or DNS entries	iepm, iepm-bw
traceroute_topology.pl	This will create graphviz diagrams of traceroute data gathered from the IEPM-BW MySQL databases	iepm, iepm-bw

lib

File	Description	Dependencies
IEPM::Topology::ASGroup.pm	Defines a single AS entry	
IEPM::Topology::Canvas.pm	Defines a base class of objects to draw for topological representation	
IEPM::Topology::Canvas::Graphviz.pm	Inherited from Canvas.pm for Graphviz implementation specifics	
IEPM::Topology::Link::Graphviz.pm	Inherited object of IEPM::Topology::Link::Graphviz.pm for Graphviz specific representation	IEPM::Topology::Graphviz.pm
IEPM::Topology::Node::Graphviz.pm	Inherited object of IEPM::Topology::Node::Graphviz.pm for graphviz specific implementation	IEPM::Topology::Node::Graphviz.pm

unit_tests

File	Description	Dependencies
test_canvas-graphviz.pl	Creates some graphviz nodes and links and draws them in graphviz format	
test_iepm-db-topology.pl	Gathers some traceroutes from the iepm-bw traceroute databases and plots them in graphviz format	iepm-bw
test_topology.pl	Using some raw traceroute output (hardcoded), puts them into a graphviz canvas and plots them in graphviz format	