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PREZI

Introduction in Scalarizr API



Concepts

- Plain objects
- JsonRPC
- HTTP transport



Plain Objects

class SysInfo(object):

```
@rpc.service_method
def load_average(self):
return os.getloadavg()
```

server = JsonRPCServer({'sysinfo': SysInfo()})
server.serve_forever()



JsonRPC

Simple Request / Response protocol

```
Request:
{"params": {"bar": 42}, "method": "foo", "id": 1336479051.099472}

Response:
{"result": 42, "id": 1336479051.099472}
```

Error:

{"error": {"data": "Something error in netware", "code": -32603}, "id": 1336479051.099472}



HTTP transport

POST http://domain/jsonrpc-service/<module-name>

request as raw POST data

module A => Python object Abricos

module B => Python object Bananas

module C => Python object Melon

Security:

- Server-Id and Timestamp header
- Encrypted and singed raw POST data



Already implemented APIs

- SysInfo
- HAProxy



SysInfo

SNMP replacement!

- fqdn get/set
- block devices
- uname
- dist
- cpu_info
- load_average
- disk stats
- net_stats

