

Djagios 'cause configuration is a bitch

# Djagios 'cause configuration is a bitch

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## About Me

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- inuits.be
- FOSDEM
- Freenode
- Exherbo Infra
- ...



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# Nagios

Who doesn't know?



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# Nagios

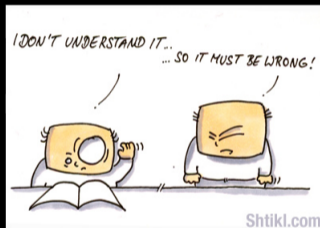
Who uses it?



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# Nagios

Who understands the configuration?



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# Nagios

Small Test: In how many ways can a host be set to a hostgroup?



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# Nagios

>5!

1. Add host to hostgroup.members
2. Add hostgroup to host.hostgroup
3. Add host.use to hostgroup.members
4. Add hostgroup to host.use.hostgroup
5. Add host to hostgroup-y that is a hostgroup\_member of hostgroup

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# Nagios

graphed: [http://docs.djagios.org/\\_images/djagios\\_model.png](http://docs.djagios.org/_images/djagios_model.png)

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# Nagios

'nuf said! complex!



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## Nagios

- awesome tool
- sucky configuration

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## Enter Djagios

setup once, easy configuration forever



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# What?

## Configuration!

1. Webbased
2. Python

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## Why?

- Do 1 thing and do it good
- Others are bloated, hard for non Nagios admins
- Tool lock-in

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## Goals

1. make **my** life easier
2. full python API
3. full developer documentation
4. easy to use
5. no lock-in
6. absorb free time

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## Status

1. Code

- 2k+ Python Lines

- 800+ Comment Lines

2. Doc

- 1.3k+ reStructuredText

3. Time

- almost none...

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## Functionality

- 90% object complete
- Basic REST API
- Full export on all objects
- Full import on all objects

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## TODO

- Full REST API
- 100% object complete
- Expand default theme
- Multi-Nagios

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## Demo

- <http://demo.djagios.org>
- <http://demo.djagios.org/nagios>

## Code

```
class Command(NagiosObject, models.Model):  
    """Definition for the Nagios command object"""  
    command_name = models.CharField(max_length=255,unique=True)  
    command_line = models.TextField()
```

gives:

```
CREATE TABLE `core_command` (  
  `id` integer AUTO_INCREMENT NOT NULL PRIMARY KEY,  
  `command_name` varchar(255) NOT NULL UNIQUE,  
  `command_line` longtext NOT NULL  
);
```

## More code

```
class Command(NagiosObject, models.Model):
    """Definition for the Nagios command object"""
    FILE_NAME = 'command.cfg'
    command_name = models.CharField(max_length=255,unique=True)
    command_line = models.TextField()
    @classmethod
    def get(self,criterion):
        o = None
        try:
            o = Command.objects.get(command_name=criterion.split('!')[0])
            return o
        except Command.DoesNotExist:
            raise Command.DoesNotExist('Cannot find the command based on you criterion %s'%criterion)
```

## More code

```
def parse_to_nagios_cfg(self, path=None):
    s = StringIO.StringIO()
    s.write('define command {\n')
    for attr in self._meta.get_all_field_names():
        if not hasattr(self, attr) or attr == 'id':
            continue
        value = getattr(self, attr)
        if not value:
            continue
        if isinstance(value, (str,int, unicode, bool,)):
            s.write('\t%s\t\t\t%s\n'%(attr,value))
    s.write('}\n')
    s.flush()
    ret = s.getvalue()
    s.close()
    return ret
```

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## Q&A



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## Thanks...

1. for coming
2. for staying awake
3. for not throwing stuff

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