



```
[root@ip-20-0-1-122 profile]# tree
```

```
.
├── examples
│   └── init.pp
├── Gemfile
├── manifests
│   ├── base.pp
│   └── webservers.pp
├── metadata.json
├── Rakefile
├── README.md
├── spec
│   ├── classes
│   │   └── init_spec.rb
│   └── spec_helper.rb
└── templates
    ├── CentOS_apachevhost_config.erb
    ├── Debian_apachevhost_config.erb
    └── haproxy.cfg.erb
```

5 directories, 12 files

```
[root@ip-20-0-1-122 profile]#
```

```
[root@ip-20-0-1-122 profile]# cd manifests/
```

```
[root@ip-20-0-1-122 manifests]# ls
```

```
base.pp  webservers.pp
```

```
[root@ip-20-0-1-122 manifests]# tree
```

```
.  
├── base.pp  
└── webservers.pp
```

```
0 directories, 2 files
```

```
[root@ip-20-0-1-122 manifests]#
```

```
[root@ip-20-0-1-122 templates]# ls
```

```
CentOS_apachevhost_config.erb  Debian_apachevhost_config.erb  haproxy.cfg.erb
```

```
[root@ip-20-0-1-122 templates]# tree
```

```
.  
├── CentOS_apachevhost_config.erb  
├── Debian_apachevhost_config.erb  
└── haproxy.cfg.erb
```

```
0 directories, 3 files
```

```
[root@ip-20-0-1-122 templates]#
```

```
[root@ip-20-0-1-122 templates]# cat CentOS_apachevhost_config.erb
```

```
<VirtualHost www.webexample.com:80>  
    ServerName www.webexample.com  
    DocumentRoot "/www/docs/www.webexample.com"  
    ServerName www.webexample.com  
    ErrorLog "logs/www.webexample.com-error_log"  
    TransferLog "logs/www.webexample.com-access_log"  
</VirtualHost>  
  
<Directory "/www/docs/www.webexample.com">  
    Options FollowSymLinks Multiviews  
    MultiviewsMatch Any  
    AllowOverride All  
    Require all granted
```

```
</Directory>

<Directory /www/docs/www.webexample.com/listing>
Options Indexes FollowSymLinks
</Directory>

    Redirect "/*" "http://www.google.de/"

    Alias "/probe_local" "/www/docs/www.webexample.com"

    Alias "/probe_listing" "/www/docs/www.webexample.com/listing"

    ProxyPass "/probe_remote" "http://localhost"

[root@ip-20-0-1-122 templates]#
```

```
[root@ip-20-0-1-122 templates]# cat Debian_apachevhost_config.erb
```

```
<VirtualHost www.webexample.com:80>

    ServerName www.webexample.com

    DocumentRoot "/www/docs/www.webexample.com"

    ServerName www.webexample.com

    ErrorLog "logs/www.webexample.com-error_log"

    TransferLog "logs/www.webexample.com-access_log"

</VirtualHost>

<Directory "/www/docs/www.webexample.com">

    Options FollowSymLinks Multiviews

    MultiviewsMatch Any

    AllowOverride All

    Require all granted

</Directory>

<Directory /www/docs/www.webexample.com/listing>

Options Indexes FollowSymLinks

</Directory>

    Redirect "/*" "https://puppet.com/"

    Alias "/probe_local" "/www/docs/www.webexample.com"

    Alias "/probe_listing" "/www/docs/www.webexample.com/listing"

[root@ip-20-0-1-122 templates]#
```

```
[root@ip-20-0-1-122 templates]# cat haproxy.cfg.erb
```

global

```
#local2.*    /var/log/haproxy.log
log          127.0.0.1 local2
chroot      /var/lib/haproxy
pidfile     /var/run/haproxy.pid
maxconn     4000
user        haproxy
group       haproxy
daemon
```

```
# turn on stats unix socket
```

```
stats socket /var/lib/haproxy/stats
```

defaults

```
mode                http
log                 global
option              httplog
option              dontlognull
option              http-server-close
option forwardfor   except 127.0.0.0/8
option              redispatch
retries             3
timeout http-request 10s
timeout queue       1m
timeout connect     10s
timeout client      1m
timeout server      1m
timeout http-keep-alive 10s
timeout check       10s
maxconn             3000
```

frontend main

```
bind *:<%= scope().call_function('hiera',['lbserver::listen_port']) %>
```

```
option http-server-close

option forwardfor

default_backend app
```

```
#-----
```

```
# round robin balancing between the backend
```

```
#-----
```

```
backend app
```

```
    mode <%= scope().call_function('hier', ['lb_servers::mode']) %>
```

```
    balance <%= scope().call_function('hier', ['lb_servers::balance_algorithm']) %>
```

```
    reqrep ^([\^\ ]*\ /)probe_local[/]?(.*)      \1\2
```

```
    server app1 10.0.1.89:80 check fall 3 rise 2
```

```
    server app2 20.0.1.151:80 check fall 3 rise 2
```

```
[root@ip-20-0-1-122 templates]#
```

```
[root@ip-20-0-1-122 role]# tree
```

```
.
├── examples
|   └── init.pp
├── Gemfile
├── manifests
|   ├── lb_servers.pp
|   └── web_servers.pp
├── metadata.json
├── Rakefile
├── README.md
└── spec
    ├── classes
    |   └── init_spec.rb
    └── spec_helper.rb
```

```
4 directories, 9 files
```

```
[root@ip-20-0-1-122 role]#
```

```
class role::lbserver {
```

```
    include profile::base
```

```
}
```

```
[root@ip-20-0-1-122 manifests]# ls
```

```
lbserver.pp  webserver.pp
```

```
[root@ip-20-0-1-122 manifests]# cat webserver.pp
```

```
class role::webserver {
```

```
    include profile::webserver
```

```
}
```

```
[root@ip-20-0-1-122 manifests]#
```

```
[root@ip-20-0-1-122 manifests]# tree
```

```
.
```

```
├─ base.pp
```

```
└─ webserver.pp
```

```
0 directories, 2 files
```

```
[root@ip-20-0-1-122 manifests]#
```

```
#
```

```
class profile::base {
```

```
    $listen_port=hiera_array('lbserver::listen_port')
```

```
    $lb_mode=hiera_array('lbserver::mode')
```

```
    $lbbalance=hiera_array('lbserver::balance_algorithm')
```

```
    $msg = [ $listen_port, $lb_mode, $lbbalance ]
```

```
        package { 'haproxy':
```

```
            ensure => installed,
```

```
        }
```

```

notify { 'PPrinting...':
    message => "${mesg}",
}

file { "/etc/haproxy/haproxy.cfg":
    owner => 'root',
    group => 'root',
    mode => '0644',
    content =>
template("${module_name}/haproxy.cfg.erb"),
    notify => Service[hiera('lbserver::lbservice_name')],
}

service { hiera('lbserver::lbservice_name'):
    ensure => running,
    enable => true,
}

}

```

[root@ip-20-0-1-122 manifests]# cat webserver.pp

```

class profile::webserver {
    case $::operatingsystem {
        'Debian': {
            package { 'apache2':
                ensure => installed,
            }

            file { "/etc/apache2/sites-enabled/www.webexample.com.conf":
                owner => 'root',
                group => 'root',
                mode => '0644',
                content => template("${module_name}/Debian_apachevhost_config.erb"),
                notify => Service[hiera('webserver::webservice_name')],
            }

            service { hiera('webserver::webservice_name'):

```

```

        ensure => 'running',
        enable => 'true',
    }
}

'CentOS': {

    package { 'httpd24':
        ensure => installed,
    }

    file { ["/opt/rh/httpd24/root/etc/httpd/conf.d/www.webexample.com.conf":
        owner => 'root',
        group => 'root',
        mode => '0644',
        content => template("$module_name/CentOS_apachevhost_config.erb"),
        notify => Service[hiera('webservers::webservicename')],
    ]
    }

    service { hiera('webservers::webservicename'):
        ensure => 'running',
        enable => 'true',
    }
}

'default': {
}

}

}

```

[root@ip-20-0-1-122 manifests]#

[root@ip-20-0-1-122 production]# cat hiera.yaml

---

:backends: yaml

:hierarchy:

- "%{operatingsystem}"



- lbserver

:yaml:

:datadir: /etc/puppetlabs/code/environments/production/hieradata/

[root@ip-20-0-1-122 production]#

[root@ip-20-0-1-122 hieradata]# tree

```
.  
├── CentOS.yaml  
├── Debian.yaml  
├── lbserver.yaml  
└── webserver.yaml
```

0 directories, 4 files

[root@ip-20-0-1-122 hieradata]# cat CentOS.yaml

---

sshconfig::sshservicename: sshd

webserver::webservicename: httpd24-httpd

[root@ip-20-0-1-122 hieradata]# cat Debian.yaml

---

sshconfig::sshservicename: ssh

webserver::webservicename: apache2

[root@ip-20-0-1-122 hieradata]# cat lbserver.yaml

---

lbserver::lbservicename: haproxy

lbserver::listen\_port: 9090

lbserver::mode: http

lbserver::balance\_algorithm: roundrobin

[root@ip-20-0-1-122 hieradata]# more /etc/puppetlabs/puppet/puppet.conf

# This file can be used to override the default puppet settings.

# See the following links for more details on what settings are available:

# - [https://docs.puppetlabs.com/puppet/latest/reference/config\\_important\\_settings.html](https://docs.puppetlabs.com/puppet/latest/reference/config_important_settings.html)

# - [https://docs.puppetlabs.com/puppet/latest/reference/config\\_about\\_settings.html](https://docs.puppetlabs.com/puppet/latest/reference/config_about_settings.html)

# - [https://docs.puppetlabs.com/puppet/latest/reference/config\\_file\\_main.html](https://docs.puppetlabs.com/puppet/latest/reference/config_file_main.html)

# - <https://docs.puppetlabs.com/puppet/latest/reference/configuration.html>

[master]

vardir = /opt/puppetlabs/server/data/puppetserver

logdir = /var/log/puppetlabs/puppetserver

rundir = /var/run/puppetlabs/puppetserver

pidfile = /var/run/puppetlabs/puppetserver/puppetserver.pid

codedir = /etc/puppetlabs/code

hiera\_config = /etc/puppetlabs/code/environments/production/hiera.yaml

[root@ip-20-0-1-122 hieradata]#

[root@ip-20-0-1-122 hieradata]# cat

/etc/puppetlabs/code/environments/production/environment.conf

# Each environment can have an environment.conf file. Its settings will only

# affect its own environment. See docs for more info:

# [https://docs.puppetlabs.com/puppet/latest/reference/config\\_file\\_environment.html](https://docs.puppetlabs.com/puppet/latest/reference/config_file_environment.html)

# Any unspecified settings use default values; some of those defaults are based

# on puppet.conf settings.

# If these settings include relative file paths, they'll be resolved relative to

# this environment's directory.

# Allowed settings and default values:

modulepath = modules:\$basemodulepath

manifest = ./manifests

# config\_version = (no script; Puppet will use the time the catalog was compiled)

# environment\_timeout = (environment\_timeout from puppet.conf, which defaults to 0)

    # Note: unless you have a specific reason, we recommend only setting

    # environment\_timeout in puppet.conf.

[root@ip-20-0-1-122 hieradata]#

← → ↻ ⓘ 13.126.118.32:9090/probe\_listing/

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 <a href="#">Debian.txt</a>	2017-10-23 22:25	16	

*Apache/2.4.25 (Debian) Server at 13.126.118.32 Port 9090*



