Antikhttpd

Puppet module

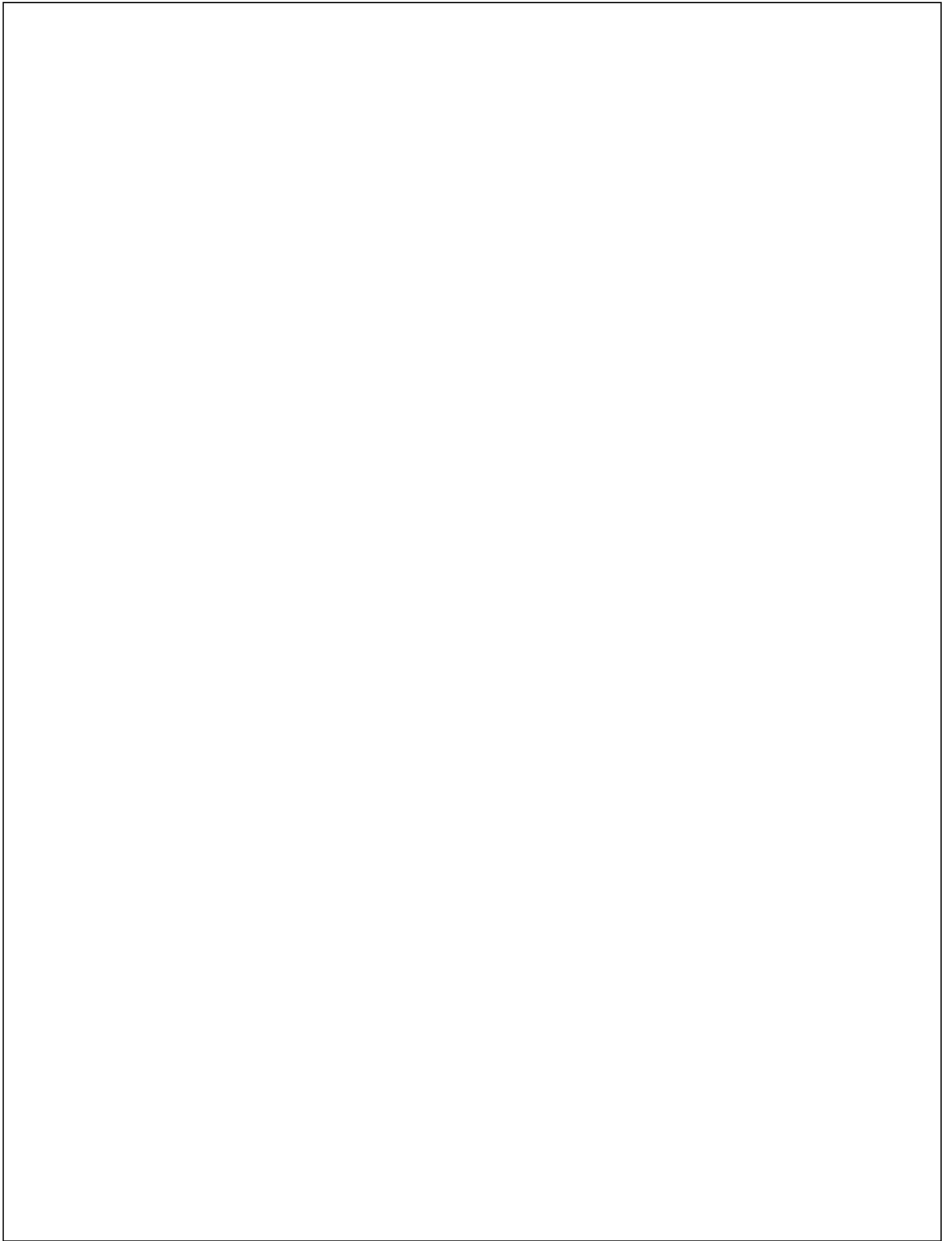v. 1.0

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Introduction

This document describes Puppet module called Antikhttpd which was created to be showed during GoodData job interview.

1.1 Purpose

Antikhttpd Puppet module installs, configures and start Apache server on target linux node and prepares script that shows basic information about the system. Script si called by Apache server during every show of internet page on ip address of target node.

Installation

2.1 Prerequisities

Module was created and tested in Puppet enterprise 2.7.21-7 in RedHat 5.9 x64 environment in two nodes configuration. One node with puppet master and puppet console and onde node with puppet agent.

on puppet master server :

- enough space only for store antikhttpd module into repository

on puppet agent node:

- enough space for Apache installation
- working packaging system with available httpd apache server

2.2 Deployment into repository

This Puppet module should be copied to puppet master server into modules directory. No further action is needed.

Hint: module directory can be retrieved with command
```
# puppet config print modulepath
```

2.3 Instalation to node

Installation is standard according to user manual for Puppet. For example in puppet web console it means to create antikhttpd class and editing target node and adding antikhttpd class. Then running the puppet agent in Live Management.

Module functionality

Module antikhttpd provides this functionality:

Step 1.
With usage of default packaging system module downloads httpd package and installs it on target node.

Step 2.
Module uploads prepared file `config/httpd.conf` from module directory to directory `/etc/httpd/conf/` and changes file attributes to 644.

Step 3.
Module upload prepared file `scripts/index.cgi` from module directory to directory `/var/www/html/` and changes file attributes to 755.

Step 4.
Module adds apache user with specific settings if does not exist yet.

Step 5.
This part (re)starts the apache service after acomplishing Step 1 and Step 2.

System info script

Basic cgi-perl script resides in `/var/www/html/` directory and provides information about:

- environment variables (env variables)
- cpu info (`/proc/cpuinfo` data)
- logged in users (usage of `w` command)
- running processes (usage of `ps` command)
- open files (usage of `lsof` command)

Appendix A – Files description

A. 1 Module files

Module antikhttpd consists of these files:

`antikhttpd/Modulefile – information about module`

`antikhttpd/manifests/init.pp – main module script`

`antikhttpd/files/config/httpd.conf – preconfigured file for Apache server`

`antikhttpd/files/scripts/index.cgi – cgi-perl scripts that provides system information`

A. 2 httpd.conf

Prepared `httpd.conf` has a few updates to get cgi script working as default page:

Added option execCGi for DocumentRoot `"/var/www/html"` directory.

Added value `index.cgi` for DirectoryIndex parameter.

Document version history

Version	Status	Date	Details of Changes	Author(s)
1.0	Released	2013-04-21	Initial version	T. Antos