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LINUX 7.2

ITOP 2.3.2—-2832

特别感谢"冷夜星空"——HARDIE 给予的无私的帮助

Centos 下载(浙大镜像站点): http://mirrors.zju.edu.cn/centos/ 母校的 FTP,支持一下

服务名: httpd 缺省端口: 80

查询已运行的 yum 进程号

[root@localhost ~]# ps -aux | grep yum

root 6994 0.3 0.3 424376 24452 pts/2 TI 22:48 0:00 /usr/bin/python /usr/bin/yum -y install httpd\*

root 7005 0.0 0.0 112660 964 pts/2 S+ 22:48 0:00 grep --color=auto yum 强制终止进程

[root@localhost ~]# kill -9 6994

[root@localhost ~]# yum -y install httpd

己加载插件: fastestmirror

mongodb-org-3.4

| 2.4 kB 00:00:00

updates

| 3.4 kB 00:00:00

**Determining fastest mirrors** 

- \* base: mirrors.cn99.com \* extras: mirrors.cn99.com \* updates: mirrors.cn99.com
- 正在解决依赖关系
- --> 正在检查事务
- ---> 软件包 httpd.x86\_64.0.2.4.6-40.el7.centos.4 将被 安装
- --> 正 在 处 理 依 赖 关 系 httpd-tools = 2.4.6-40.el7.centos.4 , 它 被 软 件 包 httpd-2.4.6-40.el7.centos.4.x86 64 需要
- --> 正在处理依赖关系 /etc/mime.types, 它被软件包 httpd-2.4.6-40.el7.centos.4.x86\_64 需要
- --> 正 在 处 理 依 赖 关 系 libaprutil-1.so.0()(64bit) , 它 被 软 件 包 httpd-2.4.6-40.el7.centos.4.x86\_64 需要
- --> 正在处理依赖关系 libapr-1.so.0()(64bit),它被软件包 httpd-2.4.6-40.el7.centos.4.x86\_64 需要
- --> 正在检查事务
- ---> 软件包 apr.x86 64.0.1.4.8-3.el7 将被 安装
- ---> 软件包 apr-util.x86\_64.0.1.5.2-6.el7 将被 安装
- ---> 软件包 httpd-tools.x86 64.0.2.4.6-40.el7.centos.4 将被 安装

- ---> 软件包 mailcap.noarch.0.2.1.41-2.el7 将被 安装
- --> 解决依赖关系完成

依赖关系解决

#### 己安装:

httpd.x86\_64 0:2.4.6-40.el7.centos.4

#### 作为依赖被安装:

apr.x86\_64 0:1.4.8-3.el7 httpd-tools.x86\_64 0:2.4.6-40.el7.centos.4 apr-util.x86\_64 0:1.5.2-6.el7 mailcap.noarch 0:2.1.41-2.el7

#### 完毕!

[1]+ 己杀死

yum -y install httpd\*

# systemctl start httpd.service

# systemctl stop httpd.service

# systemctl restart httpd.service

# systemctl status httpd.service

# systemctl enable httpd.service

# systemctl disable httpd.service

# service httpd start

# service httpd stop

# service httpd restart

# service httpd status

#### 检验 httpd 服务

# yum -y install links

# links http://localhost

安装 Apache, PHP, MySQL 以及 php 连接 mysql 库组件

# yum -y install httpd php mysql mysql-server php-mysql

安装 apache 扩展

# yum -y install httpd-manual mod\_ssl mod\_perl mod\_auth\_mysql

安装 php 的扩展

# yum -y install php-gd php-xml php-mbstring php-ldap php-pear php-xmlrpc

可改为

# yum -y install php-gd php-xml php-mbstring php-ldap php-pear php-xmlrpc php-soap

安装 MySQL 的扩展

# yum -y install mysql-connector-odbc mysql-devel libdbi-dbd-mysql

/mnt/Packages/wget-1.14-10.el7\_0.1.x86\_64.rpm

yum -y install wget

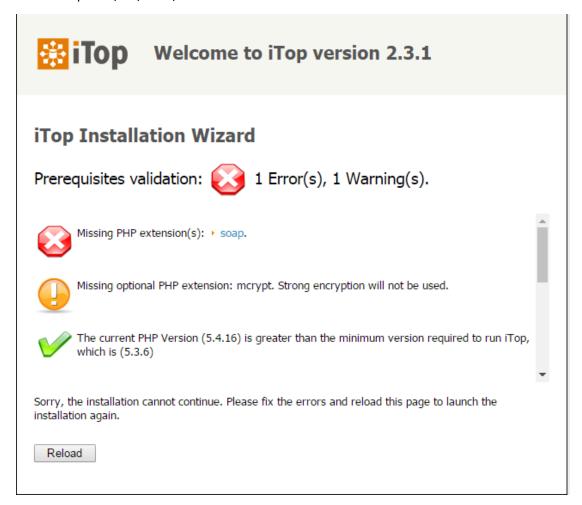
wget http://downloads.sourceforge.net/project/itop/itop/2.3.1/iTop-2.3.1-2832.zip # unzip iTop-2.3.1-2832.zip -d /var/www/html/itop

/mnt/Packages/unzip-6.0-15.el7.x86\_64.rpm # yum –y install unzip

# chown -R apache /var/www/html

# vi /etc/httpd/conf/httpd.conf
ServerRoot "/etc/httpd"
# vi /var/log/

The directory '/var/www/html/itop/web/log' exists but is not writable for the application. chown -R apache /var/www/html



[root@localhost var]# yum -y install php-soap

#### 安装编译工具:

yum update

yum install gcc gcc-c++ make

#### 安装 mcrypt:

wget http://sourceforge.net/projects/mcrypt/files/MCrypt/2.6.8/mcrypt-2.6.8.tar.gz

tar -xvzf mcrypt-2.6.8.tar.gz

cd mcrypt-2.6.8

LD LIBRARY PATH=/usr/local/lib./configure

make && make install

#### 安装 php-mcrypt:

wget http://museum.php.net/php5/php-5.4.16.tar.gz

tar -xvzf php-5.4.16.tar.gz

cd php-5.4.16/ext/mcrypt

phpize

php-config

./configure

make && make install

vi /etc/php.ini

添加: extension=mcrypt.so

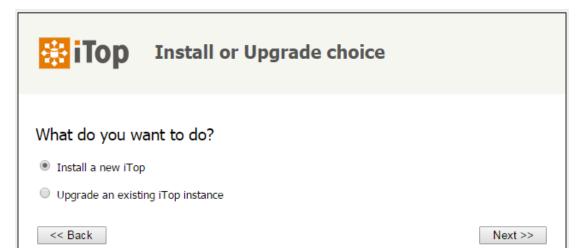
# yum -y install epel-release

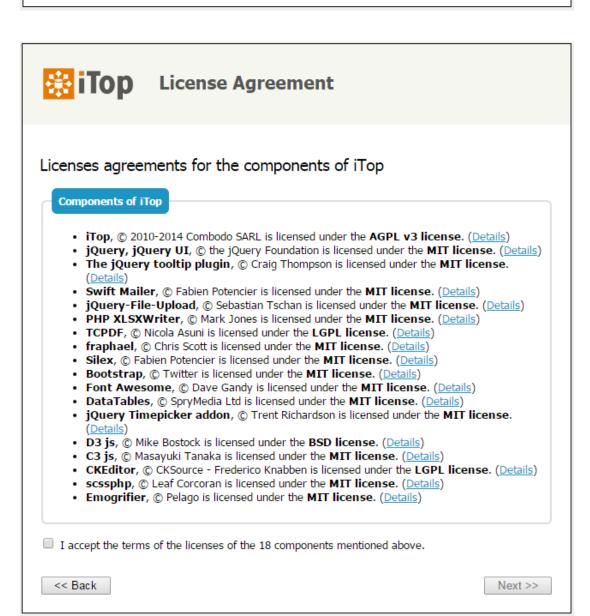
# yum repolist

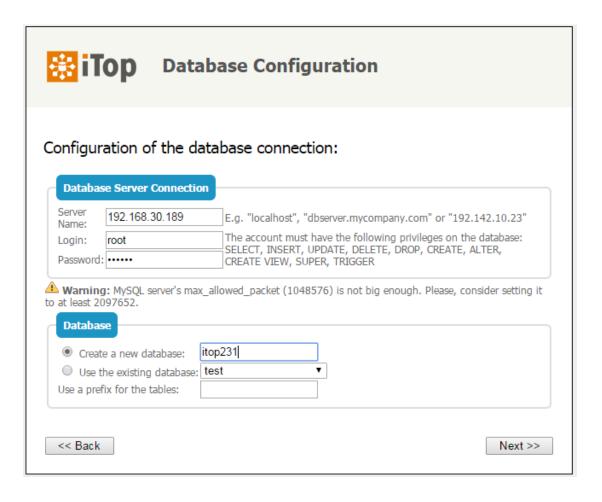
yum install libmcrypt libmcrypt-devel mcrypt mhash

# yum install php-mcrypt





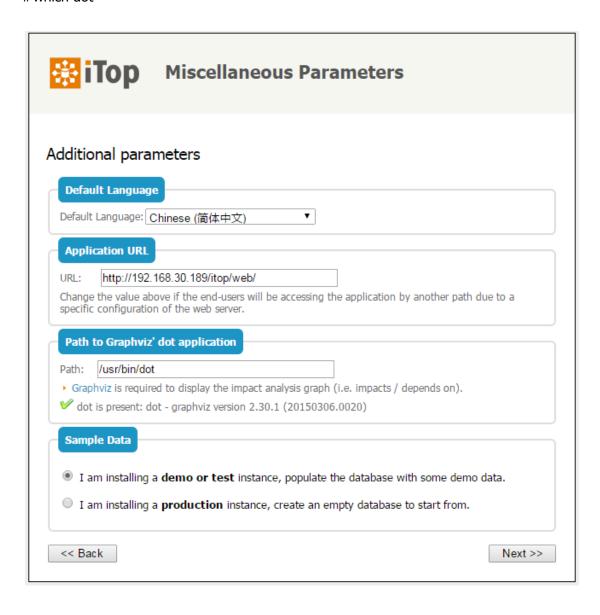






http://www.graphviz.org/

yum list available 'graphviz\*'
yum install 'graphviz\*'





# **iTop** Configuration Management options



The options below allow you to configure the type of elements that are to be managed inside iTop.

#### Configuration Management Core

All the base objects that are mandatory in the iTop CMDB: Organizations, Locations, Teams,

#### Data Center Devices

Manage Data Center devices such as Racks, Enclosures, PDUs, etc.

#### End-User Devices

Manage devices related to end-users: PCs, Phones, Tablets, etc.

#### Storage Devices

Manage storage devices such as NAS, SAN Switches, Tape Libraries and Tapes, etc.

#### Virtualization

Manage Hypervisors, Virtual Machines and Farms.

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# **iTop** Service Management options



Select the choice that best describes the relationships between the services and the IT infrastructure in your IT environment.

- Service Management for Enterprises
  - Select this option if the IT delivers services based on a shared infrastructure. For example if different organizations within your company subscribe to services (like Mail and Print services) delivered by a single shared backend.
- Service Management for Service Providers Select this option if the IT manages the infrastructure of independent customers. This is the most flexible model, since the services can be delivered with a mix of shared and customer specific infrastructure devices.

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## itop Tickets Management options



Select the type of tickets you want to use in order to respond to user requests and incidents.

#### Simple Ticket Management

Select this option to use one single type of tickets for all kind of requests.

#### Enhanced Customer Portal

Replace the built-in customer portal with a more modern version, working better with hand-held devices and bringing new features

#### ITIL Compliant Tickets Management

Select this option to have different types of ticket for managing user requests and incidents. Each type of ticket has a specific life cycle and specific fields

#### User Request Management

Manage User Request tickets in iTop

#### Incident Management

Manage Incidents tickets in iTop

#### Enhanced Customer Portal

Replace the built-in customer portal with a more modern version, working better with hand-held devices and bringing new features

#### No Tickets Management

Don't manage incidents or user requests in iTop

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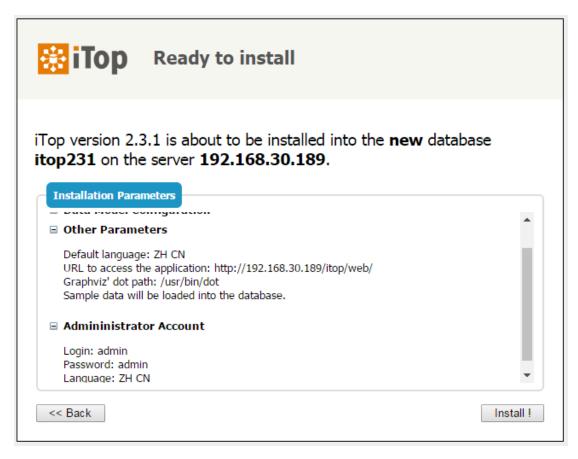


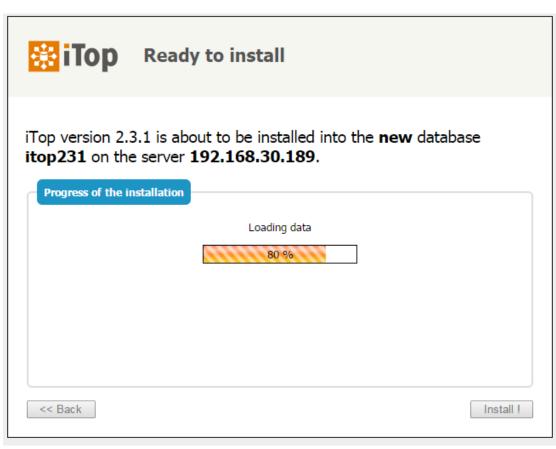
Select the type of tickets you want to use in order to manage changes to the IT infrastructure.

- Simple Change Management
   Select this option to use one type of ticket for all kind of changes.
- ITIL Change Management Select this option to use Normal/Routine/Emergency change tickets.
- No Change Management Don't manage changes in iTop

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#### Manual operations required

In order to complete the installation, the following manual operations are required:

Manual instructions for Tickets Management

#### Congratulations for installing iTop



Stay in touch with the iTop community

Get the lastest news about iTop: new features, online webinars, etc...



Be backed by the iTop experts.

Get enterprise grade support for your application, worry free upgrades, and more...



Whether you want get the most of your iTop installation, tailor iTop for your very own purpose or become an iTop guru...

Enter iTop

http://192.168.30.189/itop/web//documentation/itop-tickets.htm

<b>iTop</b>
欢迎来到 iTop!  在继续之前,确定您自己的身份
用户名称: <mark>admin</mark> 密码:
进入 iTop  • Forgot your password?



#### 其他:

Centos 6.6  $\top$ 



## **iTop** Welcome to iTop version 2.3.1

#### iTop Installation Wizard

Prerequisites validation: 1 Error(s), 0 Warning(s).





Error: The current PHP Version (5.3.3) is lower than the minimum version required to run iTop, which is (5.3.6)



Required PHP extension(s): dom, hash, iconv, json, mysqli, pcre, session, simplexml, soap, zip.



Optional PHP extension(s): gd, Idap, mcrypt.

Sorry, the installation cannot continue. Please fix the errors and reload this page to launch the installation again.

Reload

#### 查看 yum 支持的版本:

yum list php\* |grep php-devel

rpm -Uvh http://repo.webtatic.com/yum/el6/latest.rpm yum install php55w yum install php56w

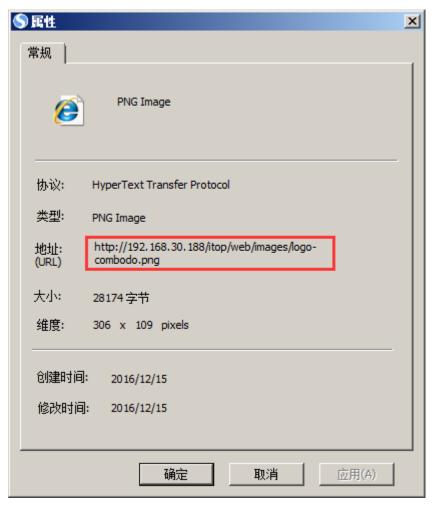
修改 ITOP LOGO 图片



http://192.168.30.181/itop/web/images/itop-logo.png?itopversion=2.3.1 http://192.168.30.181/itop/web/images/logo-combodo.png?itopversion=2.3.1

http://192.168.30.181/itop/web/为 itop 的 web 根目录

IE 类浏览器里在图片上选取右键菜单——属性



GOOGLE CHROME 浏览器里在图片上选取右键菜单——复制图片地址 FIREFOX 浏览器里在图片上选取右键菜单——复制图片地址|查看图片属性

制作同名 png 文件在服务器端覆盖(先对原图片备份)

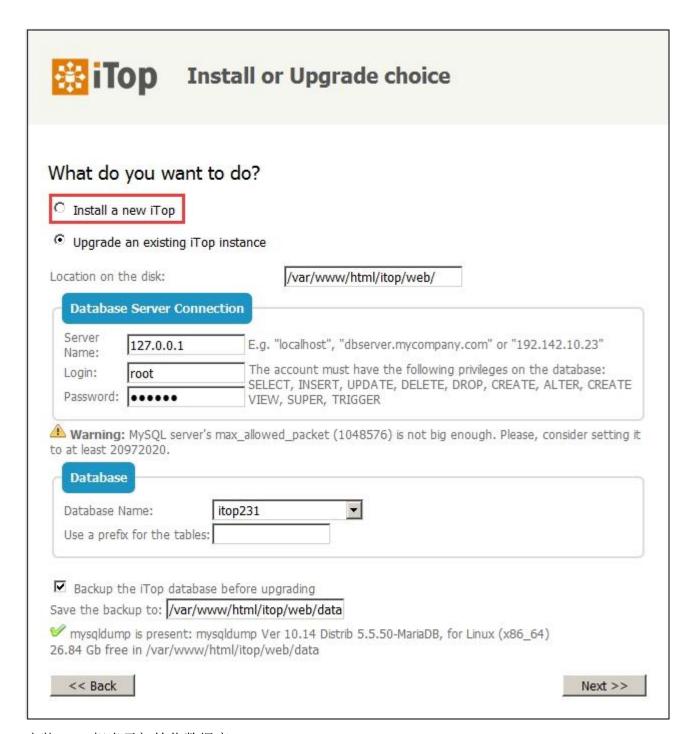
LINUX 下重启 Apache 服务 # service httpd restart # systemctl restart httpd

然后清除客户端浏览器的缓存内容或者是使用不同的浏览器确认修改



```
ITOP 插件安装:
# yum list 7zip
# yum list p7zip
# yum -y install p7zip
/var/www/html/itop/web/extensions
# rpm -qa |grep p7zip |xargs rpm -ql
解压在同一文件夹下
# 7za e ~/itop_plugin.7z
按照压缩包里的目录结构解压
# 7za x ~/itop_plugin.7z
# chown -R apache *
# systemctl restart httpd
[root@localhost ~]# cd /var/www/html/itop/web/conf/production/
[root@localhost production]# Is
config-itop.php
[root@localhost production]# Is -I
总用量 12
-r--r-- 1 apache apache 8679 12 月 5 01:08 config-itop.php
[root@localhost production]# chmod +w config-itop.php
[root@localhost production]# Is -I
总用量 12
-rw-r--r-- 1 apache apache 8679 12 月 5 01:08 config-itop.php
[root@localhost production]#
```

http://192.168.30.181/itop/web/setup/



安装 new 相当于初始化数据库



# iTop Configuration Management options



The options below allow you to configure the type of elements that are to be managed inside iTop.

#### Configuration Management Core

All the base objects that are mandatory in the iTop CMDB: Organizations, Locations, Teams, Persons, etc.

#### ✓ Data Center Devices

Manage Data Center devices such as Racks, Enclosures, PDUs, etc.

#### 

Manage devices related to end-users: PCs, Phones, Tablets, etc.

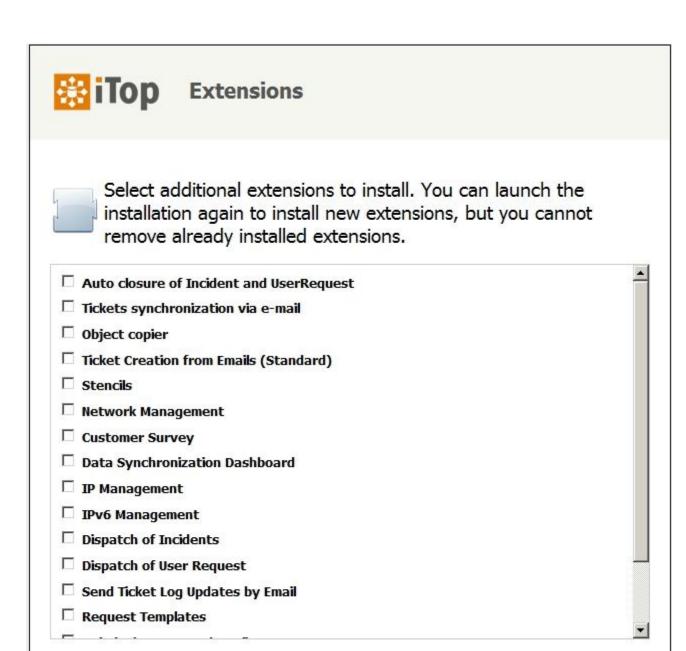
#### Storage Devices

Manage storage devices such as NAS, SAN Switches, Tape Libraries and Tapes, etc.

#### ✓ Virtualization

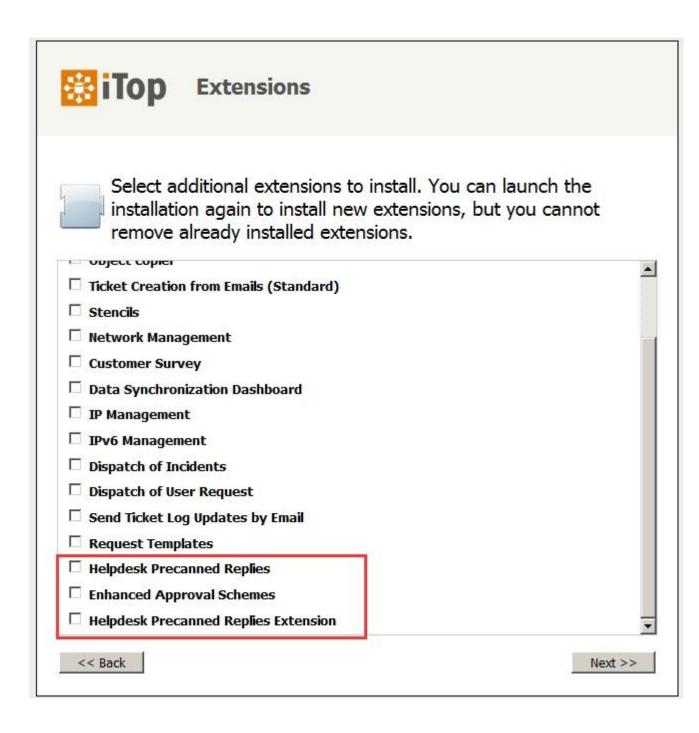
Manage Hypervisors, Virtual Machines and Farms.

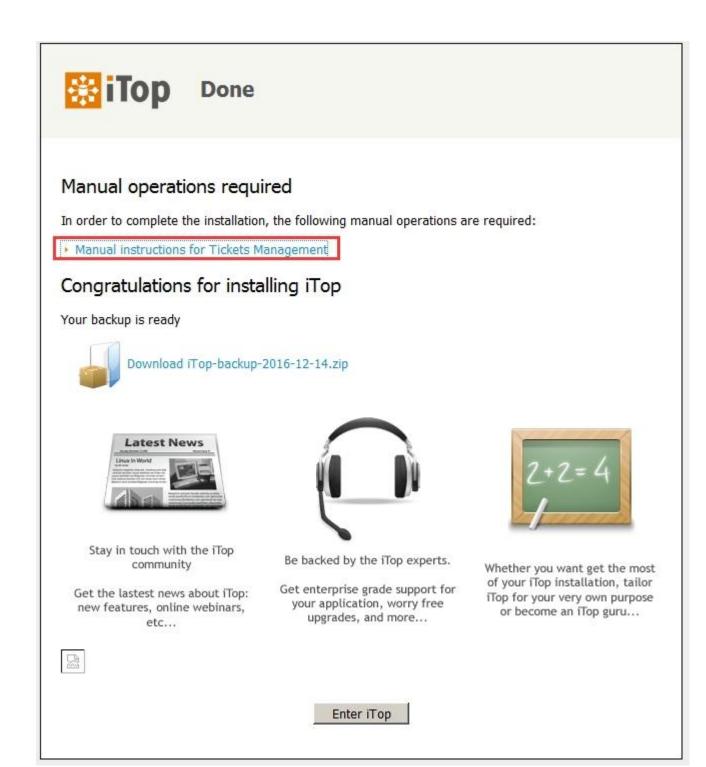
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Next >>

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# Completing the iTop installation for workflow management

Overview

In order to operate properly, iTop maintenance operations and asynchronous tasks must be executed on a regular basis. In order to ease the installation, all the background tasks have been grouped to be launched from a single file: webservices/cron.php

The following features require the activation of cron. php

- **Asynchronous emails**. By default, this option is disabled. To enable it, set 'email\_asynchronous' to 1 in the configuration file
- Check ticket SLA. Tickets reaching the limits will be passed into Escalation TTO/TTR states

For more information about cron. php, check the iTop Wiki

#### Scheduling cron. php on Windows

- Edit the file <itop root>/webservices/cron.params to set the credentials used for cronified tasks (requires administator privileges)
- Edit the file <itop root>/webservices/cron.cmd, and set the relevant path for
  your installation of PHP. If you care about security, it is recommended to change
  also the path to the parameters file <itop root>/webservices/cron.params and
  move this file to a place where its content is not served by the web server.
- 3. Schedule the execution of cron.cmd:

```
schtasks. exe /create /tn "iTop CRON" /sc minute /mo 1 /tr "\"\langle itop root \rangle/webservices/cron. cmd\""
```

#### Scheduling cron. php on Linux/Unix

- Edit the file <itop root>/webservices/cron.params to set the credentials used for cronified tasks (requires administator privileges)
- If you care about security: move the file <itop
   root>/webservices/cron.params into a directory not in the scope of the web
   server (Apache), and make it be readable only by the account that will execute
   the cron
- 3. Edit the crontab and add the following line:

```
* * * * * /usr/bin/php <itop root>/webservices/cron.php
--param_file=<itop root>/webservices/cron.params
```



#### Helpdesk Overview New user request Search for user requests Shortcuts Requests assigned to me Requests dispatched to my teams Hot Requests \* All open requests My support calls Requests waiting for approval

# 服务管理

- 概览
- 客户合同
- **)** 供应商合同
- Service families

Customer surveys

Quizzes Surveys

- ▶ 服务
- ▶ 服务子级类目
- \* SLAs
- ▶ SLTs
- Delivery models
- Request templates
- \* Coverage Windows
- Holiday Calendars
- Holidays
- Approval rules
- Precanned replies
- Precanned replies categories

#### 数据管理

- ▶ CSV 导入
- 审计
- 目录
- 组织
- Typology configuration
  Global IP Settings

# 管理工具 用户帐户 简档 通知 审计类目 运行查询 Query phrasebook 导出 数据模型 通用搜索 Synchronization Data Sources Synchronization Dashboard Scheduled Backups Configuration Incoming eMail Inboxes

#### 809758521

;upload\_tmp\_dir =

; Maximum allowed size for uploaded files.

; http://php.net/upload-max-filesize

upload\_max\_filesize = 20M

```
; Maximum number of files that can be uploaded via a single request max_file_uploads = 20

; Maximum size of POST data that PHP will accept.
; Its value may be 0 to disable the limit. It is ignored if POST data reading; is disabled through enable_post_data_reading.
; http://php.net/post-max-size
post_max_size = 8M

# unzip toolkit/iTopDataModelToolkit-2.3.zip -d.
# chown -R apache *
# systemctl restart httpd
浏览器:
http://192.168.30.181/itop/web/toolkit
```

\_\_\_\_\_

给有缘的你

注: 后期开发的内容带续集了。