**京峰教育，专注IT课程高薪培训**

**京峰教育：让天下没有难学的Linux**



京峰教育Linux云计算公开课

旨在交流Linux相关技能，为开源事业贡献京峰的绵薄之力，一起改变超越!

学习时间：上午10:00-11:30，下午14:30-16:00

学习地址：<https://ke.qq.com/course/173130>



课程大纲：<http://www.jfedu.net/linux>

Linux云计算VIP班&DevOps班VIP大纲

学习交流群：1500190682

可馨老师微信：[1753938973](http://wpa.qq.com/msgrd?v=3&uin=1753938973&site=qq&menu=yes)

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公开课资料及VIP课程咨询老师联系方式

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**SHELL训练营LNMP脚本实战-京峰教育Linux公益实战教程**

1. 参加京峰SHELL训练营获奖事宜；
2. SHELL编程LNMP编程思路；
3. SHELL编程LNMP项目脚本优化实战；
4. **参加京峰SHELL训练营获奖事宜**
5. SHELL训练营3次课程，到课率100%（紧跟课堂）；
6. 每次训练营，要完成老师步骤作业，微信群发布作业；
7. SHELL训练营公屏互动有激情的同学、积极的同学。

**完成以上3个需求，将名单提交给腾讯课堂，腾讯课堂统一评判获奖的学员，进行奖品赠送！直接校招进入腾讯的机会！**

1. **SHELL编程开发LNMP一键脚本（编程思路）**
2. LNMP是目前互联网主流的WEB服务器架构，主要是由Linux+Nginx+MYSQL|Mariadb+PHP组合，可以发布企业门户网站代码（PHP动态网页），运维人员要能够独立构建LNMP平台。
3. 基于手工MAKE源码方式构建LNMP WEB平台，操作步骤、指令非常的繁琐，如果企业要求快速、高效的配置平台，通过手工操作会消耗大量的人力成本，可以引入SHELL编程自动化实现。

* Nginx官网下载Nginx软件包&解压&编译&安装；
* MYSQL官网下载MYSQL软件包&解压&编译&安装；
* PHP官网下载PHP软件包&解压&编译&安装；
* LNMP配置文件整合，创建PHPinfo测试页面&访问。

1. **SHELL编程开发LNMP一键脚本（v1版本）**

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| --- |
| #!/bin/bash  #2020年2月25日20:23:16  #auto install lnmp web  #by author www.jfedu.net  ########################  #Install nginx web  yum install -y wget gzip tar make gcc  yum install -y pcre pcre-devel zlib zlib-devel  wget -c http://nginx.org/download/nginx-1.16.0.tar.gz  tar -xzf nginx-1.16.0.tar.gz  cd nginx-1.16.0  useradd -s /sbin/nologin www -M  ./configure --prefix=/usr/local/nginx --user=www --group=www --with-http\_stub\_status\_module  make  make install  /usr/local/nginx/sbin/nginx  ps -ef|grep nginx  netstat -tnl|grep -w 80  setenforce 0  firewall-cmd --add-port=80/tcp --permanent  systemctl reload firewalld.service  iptables -t filter -A INPUT -m tcp -p tcp --dport 80 -j ACCEPT  #Install MYSQL db  yum install -y gcc-c++ ncurses-devel cmake make perl gcc autoconf  yum install -y automake zlib libxml2 libxml2-devel libgcrypt libtool bison  wget -c http://mirrors.163.com/mysql/Downloads/MySQL-5.6/mysql-5.6.45.tar.gz  tar -xzf mysql-5.6.45.tar.gz  cd mysql-5.6.45  cmake . -DCMAKE\_INSTALL\_PREFIX=/usr/local/mysql56/ \  -DMYSQL\_UNIX\_ADDR=/tmp/mysql.sock \  -DMYSQL\_DATADIR=/data/mysql \  -DSYSCONFDIR=/etc \  -DMYSQL\_USER=mysql \  -DMYSQL\_TCP\_PORT=3306 \  -DWITH\_XTRADB\_STORAGE\_ENGINE=1 \  -DWITH\_INNOBASE\_STORAGE\_ENGINE=1 \  -DWITH\_PARTITION\_STORAGE\_ENGINE=1 \  -DWITH\_BLACKHOLE\_STORAGE\_ENGINE=1 \  -DWITH\_MYISAM\_STORAGE\_ENGINE=1 \  -DWITH\_READLINE=1 \  -DENABLED\_LOCAL\_INFILE=1 \  -DWITH\_EXTRA\_CHARSETS=1 \  -DDEFAULT\_CHARSET=utf8 \  -DDEFAULT\_COLLATION=utf8\_general\_ci \  -DEXTRA\_CHARSETS=all \  -DWITH\_BIG\_TABLES=1 \  -DWITH\_DEBUG=0  make  make install  #Add MYSQL system service  cd /usr/local/mysql56/  \cp support-files/my-default.cnf /etc/my.cnf  \cp support-files/mysql.server /etc/init.d/mysqld  chkconfig --add mysqld  chkconfig --level 35 mysqld on  service mysqld stop  mv /data/mysql/ /data/mysql.bak/  mkdir -p /data/mysql/  useradd mysql  /usr/local/mysql56/scripts/mysql\_install\_db --user=mysql --datadir=/data/mysql/ --basedir=/usr/local/mysql56/  ln -s /usr/local/mysql56/bin/\* /usr/bin/  service mysqld restart  #Install PHP FPM WEB  yum install libxml2 libxml2-devel gzip bzip2 -y  wget -c http://mirrors.sohu.com/php/php-5.6.28.tar.bz2  tar jxf php-5.6.28.tar.bz2  cd php-5.6.28  ./configure --prefix=/usr/local/php5 --with-config-file-path=/usr/local/php5/etc --with-mysql=/usr/local/mysql56/  --enable-fpm  make  make install  #Config LNMP WEB and Start Server.  cp php.ini-development /usr/local/php5/etc/php.ini  cp /usr/local/php5/etc/php-fpm.conf.default /usr/local/php5/etc/php-fpm.conf  cp sapi/fpm/init.d.php-fpm /etc/init.d/php-fpm  chmod o+x /etc/init.d/php-fpm  /etc/init.d/php-fpm start  cat>/usr/local/nginx/conf/nginx.conf <<EOF  worker\_processes 1;  events {  worker\_connections 1024;  }  http {  include mime.types;  default\_type application/octet-stream;  sendfile on;  keepalive\_timeout 65;  server {  listen 80;  server\_name localhost;  location / {  root html;  fastcgi\_pass 127.0.0.1:9000;  fastcgi\_index index.php;  fastcgi\_param SCRIPT\_FILENAME \$document\_root\$fastcgi\_script\_name;  include fastcgi\_params;  }  }  }  EOF  /usr/local/nginx/sbin/nginx -s reload |

1. **SHELL编程开发LNMP一键脚本（v2版本）**

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| --- |
| #!/bin/bash  #2020年2月25日22:22:29  #auto install lnmp web.  #by author www.jfedu.net  ######################  if [ $1 -eq 1 ];then  #Install Nginx WEB.  yum install -y wget gzip tar make gcc  yum install -y pcre pcre-devel zlib-devel  wget -c http://nginx.org/download/nginx-1.16.0.tar.gz  tar zxf nginx-1.16.0.tar.gz  cd nginx-1.16.0  useradd -s /sbin/nologin www -M  ./configure --user=www --group=www --prefix=/usr/local/nginx  make && make install  /usr/local/nginx/sbin/nginx  setenforce 0  systemctl stop firewalld.service  fi  if [ $1 -eq 2 ];then  #Install MYSQL Database.  cd ../  yum install -y gcc-c++ ncurses-devel cmake make perl gcc autoconf  yum install -y automake zlib libxml2 libxml2-devel libgcrypt libtool bison  wget -c http://mirrors.163.com/mysql/Downloads/MySQL-5.6/mysql-5.6.45.tar.gz  tar -xzf mysql-5.6.45.tar.gz  cd mysql-5.6.45  cmake . -DCMAKE\_INSTALL\_PREFIX=/usr/local/mysql56/ \  -DMYSQL\_UNIX\_ADDR=/tmp/mysql.sock \  -DMYSQL\_DATADIR=/data/mysql \  -DSYSCONFDIR=/etc \  -DMYSQL\_USER=mysql \  -DMYSQL\_TCP\_PORT=3306 \  -DWITH\_XTRADB\_STORAGE\_ENGINE=1 \  -DWITH\_INNOBASE\_STORAGE\_ENGINE=1 \  -DWITH\_PARTITION\_STORAGE\_ENGINE=1 \  -DWITH\_BLACKHOLE\_STORAGE\_ENGINE=1 \  -DWITH\_MYISAM\_STORAGE\_ENGINE=1 \  -DWITH\_READLINE=1 \  -DENABLED\_LOCAL\_INFILE=1 \  -DWITH\_EXTRA\_CHARSETS=1 \  -DDEFAULT\_CHARSET=utf8 \  -DDEFAULT\_COLLATION=utf8\_general\_ci \  -DEXTRA\_CHARSETS=all \  -DWITH\_BIG\_TABLES=1 \  -DWITH\_DEBUG=0  make  make install  #Config MYSQL Set System Service  cd /usr/local/mysql56/  \cp support-files/my-large.cnf /etc/my.cnf  \cp support-files/mysql.server /etc/init.d/mysqld  chkconfig --add mysqld  chkconfig --level 35 mysqld on  mkdir -p /data/mysql  useradd mysql  /usr/local/mysql56/scripts/mysql\_install\_db --user=mysql --datadir=/data/mysql/ --basedir=/usr/local/mysql56/  ln -s /usr/local/mysql56/bin/\* /usr/bin/  service mysqld restart  fi  if [ $1 -eq 3 ];then  #Install PHP WEB 2020  cd ../../  yum install libxml2 libxml2-devel -y  wget http://mirrors.sohu.com/php/php-5.6.28.tar.bz2  tar jxf php-5.6.28.tar.bz2  cd php-5.6.28  ./configure --prefix=/usr/local/php5 --with-config-file-path=/usr/local/php5/etc --with-mysql=/usr/local/mysql56/ --enable-fpm  make  make install  fi  if [ $1 -eq 4 ];then  #Config LNMP WEB and Start Server.  cp php.ini-development /usr/local/php5/etc/php.ini  cp /usr/local/php5/etc/php-fpm.conf.default /usr/local/php5/etc/php-fpm.conf  cp sapi/fpm/init.d.php-fpm /etc/init.d/php-fpm  chmod o+x /etc/init.d/php-fpm  /etc/init.d/php-fpm start  echo "  worker\_processes 1;  events {  worker\_connections 1024;  }  http {  include mime.types;  default\_type application/octet-stream;  sendfile on;  keepalive\_timeout 65;  server {  listen 80;  server\_name localhost;  location / {  root html;  fastcgi\_pass 127.0.0.1:9000;  fastcgi\_index index.php;  fastcgi\_param SCRIPT\_FILENAME \$document\_root\$fastcgi\_script\_name;  include fastcgi\_params;  }  }  }" >/usr/local/nginx/conf/nginx.conf  echo "  <?php  phpinfo();  ?>">/usr/local/nginx/html/index.php  /usr/local/nginx/sbin/nginx -s reload  fi |

1. **SHELL编程开发LNMP一键脚本（v3版本）**

|  |
| --- |
| #!/bin/bash  #2020年2月25日20:23:16  #auto install lnmp web  #by author www.jfedu.net  #####################  #Define nginx variable  NGX\_VER="1.16.0"  NGX\_YUM="yum install -y"  NGX\_DIR="/usr/local/nginx"  NGX\_SOFT="nginx-${NGX\_VER}.tar.gz"  NGX\_URL="http://nginx.org/download"  NGX\_SRC=$(echo $NGX\_SOFT|sed 's/\.tar.gz//g')  NGX\_ARGS="--user=www --group=www --with-http\_stub\_status\_module"  #Define mysql variable  MYSQL\_YUM="yum install -y"  MYSQL\_SOFT="mysql-5.6.45.tar.gz"  MYSQL\_DIR="/usr/local/mysql56/"  MYSQL\_SRC="echo $MYSQL\_SOFT|sed 's/\.tar.gz//g'"  MYSQL\_URL="http://mirrors.163.com/mysql/Downloads/MySQL-5.6"  #Define php variable  PHP\_YUM="yum install -y"  PHP\_SOFT="php-5.6.28.tar.bz2"  PHP\_DIR="/usr/local/php5/"  PHP\_SRC="echo $PHP\_SOFT|sed 's/\.tar.gz//g'"  PHP\_URL="http://mirrors.sohu.com/php/"  function install\_nginx(){  #Install nginx web  CHECK\_NUM=$(rpm -qa|grep -wcE "gcc|pcre-devel")  if [ $CHECK\_NUM -lt 2 ];then  $NGX\_YUM wget gzip tar make gcc  $NGX\_YUM pcre pcre-devel zlib zlib-devel  fi  wget -c $NGX\_URL/$NGX\_SOFT  tar -xzf $NGX\_SOFT  cd $NGX\_SRC  useradd -s /sbin/nologin www -M  ./configure --prefix=$NGX\_DIR $NGX\_ARGS  if [ $? -eq 0 ];then  make  make install  fi  $NGX\_DIR/sbin/nginx  ps -ef|grep nginx  netstat -tnl|grep -w 80  setenforce 0  firewall-cmd --add-port=80/tcp --permanent  systemctl reload firewalld.service  iptables -t filter -A INPUT -m tcp -p tcp --dport 80 -j ACCEPT  }  function install\_mysql(){  #Install MYSQL db  $MYSQL\_YUM gcc-c++ ncurses-devel cmake make perl gcc autoconf  $MYSQL\_YUM automake zlib libxml2 libxml2-devel libgcrypt libtool bison  wget -c $MYSQL\_URL/$MYSQL\_SOFT  tar -xzf $MYSQL\_SOFT  cd $MYSQL\_SRC  cmake . -DCMAKE\_INSTALL\_PREFIX=$MYSQL\_DIR/ \  -DMYSQL\_UNIX\_ADDR=/tmp/mysql.sock \  -DMYSQL\_DATADIR=/data/mysql \  -DSYSCONFDIR=/etc \  -DMYSQL\_USER=mysql \  -DMYSQL\_TCP\_PORT=3306 \  -DWITH\_XTRADB\_STORAGE\_ENGINE=1 \  -DWITH\_INNOBASE\_STORAGE\_ENGINE=1 \  -DWITH\_PARTITION\_STORAGE\_ENGINE=1 \  -DWITH\_BLACKHOLE\_STORAGE\_ENGINE=1 \  -DWITH\_MYISAM\_STORAGE\_ENGINE=1 \  -DWITH\_READLINE=1 \  -DENABLED\_LOCAL\_INFILE=1 \  -DWITH\_EXTRA\_CHARSETS=1 \  -DDEFAULT\_CHARSET=utf8 \  -DDEFAULT\_COLLATION=utf8\_general\_ci \  -DEXTRA\_CHARSETS=all \  -DWITH\_BIG\_TABLES=1 \  -DWITH\_DEBUG=0  make  make install  #Add MYSQL system service  cd $MYSQL\_DIR/  \cp support-files/my-default.cnf /etc/my.cnf  \cp support-files/mysql.server /etc/init.d/mysqld  chkconfig --add mysqld  chkconfig --level 35 mysqld on  service mysqld stop  mv /data/mysql/ /data/mysql.bak/  mkdir -p /data/mysql/  useradd mysql  $MYSQL\_DIR/scripts/mysql\_install\_db --user=mysql --datadir=/data/mysql/ --basedir=$MYSQL\_DIR/  ln -s $MYSQL\_DIR/bin/\* /usr/bin/  service mysqld restart  }  function install\_php(){  #Install PHP FPM WEB  yum install libxml2 libxml2-devel gzip bzip2 -y  wget -c $PHP\_URL/$PHP\_SOFT  tar jxf $PHP\_SOFT  cd $PHP\_SRC  ./configure --prefix=$PHP\_DIR --with-config-file-path=$PHP\_DIR/etc --with-mysql=$MYSQL\_DIR/  --enable-fpm  make  make install  #Config LNMP WEB and Start Server.  cp php.ini-development $PHP\_DIR/etc/php.ini  cp $PHP\_DIR/etc/php-fpm.conf.default $PHP\_DIR/etc/php-fpm.conf  cp sapi/fpm/init.d.php-fpm /etc/init.d/php-fpm  chmod o+x /etc/init.d/php-fpm  /etc/init.d/php-fpm start  }  function lnmp\_config(){  cat>$NGX\_DIR/conf/nginx.conf <<EOF  worker\_processes 1;  events {  worker\_connections 1024;  }  http {  include mime.types;  default\_type application/octet-stream;  sendfile on;  keepalive\_timeout 65;  server {  listen 80;  server\_name localhost;  location / {  root html;  fastcgi\_pass 127.0.0.1:9000;  fastcgi\_index index.php;  fastcgi\_param SCRIPT\_FILENAME \$document\_root\$fastcgi\_script\_name;  include fastcgi\_params;  }  }  }  EOF  $NGX\_DIR/sbin/nginx -s reload  }  case $1 in  1 )  install\_nginx  ;;  2 )  install\_mysql  ;;  3 )  install\_php  ;;  4 )  lnmp\_config  ;;  \* )  echo -e "\033[32m----------------\033[0m"  echo -e "\033[32m1)Install Nginx WEB.\033[0m"  echo -e "\033[32m2)Install MYSQL DB.\033[0m"  echo -e "\033[32m3)Install PHP-FPM WEB.\033[0m"  echo -e "\033[32m4)Install LNMP config.\033[0m"  echo -e "\033[32mUsage:{/bin/sh $0 1|2|3|4|help}\033[0m"  esac |

