BABr11.5 for Linux のインストール

ここでは BrightStore ARCserve Backup 11.5 for Linux のインストール手順を説明します。

前提条件

1) HTTP サーバが動作している必要があります。YaST > Networks Service > HTTP Server を開き、HTTP サービスが動作しているか確認してください。
2) 適切なネットワーク設定が行われている必要があります。スタンドアローン運用されている場合でも、ネットワークポートにIPアドレスにスタティックなアドレスが設定されていないとインストールに失敗します。

インストールの開始

BAB_r_11_5_LNX CD-ROM を挿入して install シェルを Run Terminal で実行します。


```
You are running Linux on Kernel 2.6.16.46-0.12-smp. Analyzing the environment

CA, Inc. ("CA")

-ライセンスの説明 -

Please enter your choice:[Y|N] (default: N)y

Do you want to view the installation notes? (y/n):(default: y)_n


CA licensing gets installed in /opt/CA/SharedComponents.
Do you want to provide an alternative installation path? [y|n]:(default: n)Enter
Process licensing.../ [ OK ]
```

Please make the appropriate selection for licensing your product:
1. An ALP Certificate
2. OEM key - A 29-character key, such as "ABCDE-FGHIJ-KLMNO-PQRST-UVWXY"
3. A 29-character or trial key, such as "ABCDE-FGHIJ-KLMNO-PQRST-UVWXY"
4. Skip
Your choice: 3
Please enter the license key: xxxxx-xxxxx-xxxxx-xxxxx-xxxxx **<- キーをセットします。**
Valid License Key.
Do you want to enter more license keys? [y|n]:(default: n)**Enter**

Preparing for the installation, please wait...|

The following products are available to install:

```
##################################################################
#       BrightStor ARCserve Backup Installation Options
##################################################################
# 1. BrightStor ARCserve Backup for Linux Server & Manager    (BABsvr & BABmgr)
# 2. BrightStor ARCserve Backup for Linux Client Agent    (BABagntux)
# 3. BrightStor ARCserve Backup for Linux Storage Area Network (SAN) option    (BABsan)
# 4. BrightStor ARCserve Backup for Linux NDMP NAS Option    (BABnas)
# 5. BrightStor ARCserve Backup for Linux Agent for Oracle    (BABora)
# 6. BrightStor ARCserve Backup for Linux Agent for MySQL    (BABmysql)
# 7. BrightStor ARCserve Backup for Linux Enterprise Option for SAP R/3 for Oracle(BABsap & BABbaim)
# 8. BrightStor ARCserve Backup for Linux Enterprise Option for Advantage Ingres (BABing)
#
# 0. Quit
##################################################################
```

Please enter your selection separated by "," For example: 1,2. Press Enter to select the default components
(Server & Manager , Client Agent)..

Your choices are:**1** **<- Server & Manager を選択**

Please specify the installation path of Server & Manager   (default: /opt/CA):**Enter**
Please specify the installation path of Client Agent for Linux   (default: /opt/CA):**Enter**

The choices you selected are:

  . Install Server & Manager   (BABsvr & BABmgr)==> [/opt/CA/BrightStorARCserve]
  . Install Client Agent for Linux   (BABagntux)   ==> [/opt/CA/BABuagent]

Are you sure? (y)es/(n)o/(q)uit: **y**
All BrightStor ARCserve Backup agents can be configured for automatic startup
and shutdown as part of your operating system startup and shutdown.
Do you want to enable automatic startup and shutdown of all backup agents? [y|n]:(default: y)**Enter**

Do you want to install the BrightStor ARCserve Backup documentation set?

(y) to continue, (n) to skip (default:y):**Enter**

BrightStor ARCserve Backup browser-based management requires that you install
and configure a web server. Typically, Linux comes with the Apache Web Server
(apache package). Please install and configure an Apache Web Server before
you rerun the installation or use BrightStor ARCserve Backup.

(y) to continue, (q) to quit : **y インストールが開始されます**

```
Checking available space in /                           ==> [ OK ]


Installation log file is                    ==> [ /tmp/BrightStorInstall122107-1541.log ]

    Server & Manager                (BABsvr&BABmgr) ==> [ INSTALLING ]    Server & Manager
(BABsvr&BABmgr)  ==> [ INSTALL SUCCESSFUL ]
    Common Agent Module             (BABcmagt)      ==> [ INSTALLING ]    Common Agent Module
(BABcmagt)      ==> [ INSTALL SUCCESSFUL ]
    Client Agent for Linux          (BABagntux)     ==> [ INSTALLING ]    Client Agent for Linux
(BABagntux)     ==> [ INSTALL SUCCESSFUL ]

Copying documentation of BrightStor ARCserve Backup into /opt/CA/BrightStorARCserve/doc ...
Successfully installed BrightStor ARCserve Backup documents.

#########################################################################


    Please perform the following setup/configuration:

    Server & Manager                (BABsvr & BABmgr)==> [ Set up Environment Variables ]
    Server & Manager                (BABsvr & BABmgr)==> [ csetup ]

    For additional information, please see the Getting Started Guide and
    the other documents accompanying the product.
    Installation log file is                ==> [ /tmp/BrightStorInstall122107-1541.log ]
#########################################################################
```

Do you want to view the readme? [y|n]:(default: y)**n Readme は読まないで No**

システムを一旦リブートします。

Csetup の実行

再起動が完了したらターミナルから csetup スクリプトを実行します。

my-linux2:~ # csetup

The kernel parameters are OK.

This setup script will prompt you for information required to properly
configure various BrightStor ARCserve Backup services.
Configuration includes the setting of domain name, primary and secondary
discovery services, httpd web service port number, media server, database,
authentication.

BrightStor ARCserve Backup has a discovery service that is used to share
information on BrightStor ARCserve Backup resources among a group of machines.
There should always be a single discovery service among a group of machines.
A second discovery service is optional and is used if the primary discovery
service is unavailable.

You must configure all machines in the group to reference the same
primary discovery server and the secondary server if it exists.
BrightStor ARCserve Backup uses a domain name to verify that processes
are communicating with the correct server.

Is this host [my-linux2] the primary discovery server (default: y) [y,n,q]:**y**

Do you have a secondary discovery server (default: y) [y,n,q]:**n**

What is the BrightStor ARCserve Backup domain name(15 character maximum)? **Mydomain <- BABr11 をまとめて管理するためのドメイン名です。**

```
     PRIMARY_SERVER:    my-linux2
   SECONDARY_SERVER:    none
        DOMAIN_NAME:    mydomain
```

Is this information correct (default: y) [y,n,q]:**y**

Enter the port number for the web server: (default: 6060)?**Enter（デフォルトでポート 6060 が使用されます）**

Preparing for Advantage Ingres installation on Linux.

User 'ingres' does not exist. Do you want to add it (if no, you must
add it manually before you can continue) (y/n [y])?_**y**

Please Note: The Ingres Installation path should ONLY contain alphabetic,
                digit, period, underscore and hyphen characters.

If this is the first time you are setting up Advantage Ingres on this server,
you must specify the full path where you want Advantage Ingres to be installed.
Otherwise, enter the full path where Advantage Ingres is already installed.
Press <Enter> to accept the default path (/opt/CA/ingresii):
/opt/CA/BrightStorARCserve/bin/cadbase_setup: line 641: test: 18446744073709551615: integer expression expected

Please select a setup method:

    1) Basic setup
    2) Advanced setup (recommended for production environments)

Enter a number (1-2): **1 <- 基本セットアップ**

Based on the number of files to be backed up daily, we recommend
the following values for the transaction log file size:

Number of files to be backed up daily	Recommended Transaction log file size
< 100K	400 MB
> 100K < 500K	1 GB

```
> 500K                      2 GB
```

Please specify the size of the transaction log file in MB (1000):**Enter**

```
Advantage Ingres installation setup:
------------------------------------------------------------------
Advantage Ingres installation path: /opt/CA/ingresii/ingres
Advantage Ingres transaction log file path: /opt/CA/ingresii/ingres
Advantage Ingres database path: /opt/CA/ingresii/ingres
Advantage Ingres transaction log size: 1000  (MB)
------------------------------------------------------------------
```

Proceed with these settings (y/n [y]): **y**

Starting installation

```
Please provide a UID for user ingres to be created [cr=auto]:
Creating user 'ingres'
Ingres R3 Install
Building package list ...
Invoking RPM ...
Preparing...              ######################################## [100%]
   1:ca-ingres-WV          ######################################## [  6%]
II_INSTALLATION configured as WV.
   2:ca-ingres-dbms-WV     ######################################## [ 13%]
Setting up Ingres Intelligent DBMS, this may take some time...
See /opt/CA/ingresii/ingres/files/install.log for more info.
   3:ca-ingres-net-WV      ######################################## [ 19%]
Building the password validation program 'ingvalidpw'.
Could not compile ingvalidpw: Using executable from the distribution instead.
Executable successfully installed.
   4:ca-ingres-abf-WV      ######################################## [ 25%]
   5:ca-ingres-c2audit-WV  ######################################## [ 31%]
   6:ca-ingres-das-WV      ######################################## [ 38%]
   7:ca-ingres-esql-WV     ######################################## [ 44%]
   8:ca-ingres-jdbc-WV     ######################################## [ 50%]
   9:ca-ingres-odbc-WV     ######################################## [ 56%]
  10:ca-ingres-ome-WV      ######################################## [ 63%]
  11:ca-ingres-qr_run-WV   ######################################## [ 69%]
  12:ca-ingres-rep-WV      ######################################## [ 75%]
  13:ca-ingres-star-WV     ######################################## [ 81%]
  14:ca-ingres-tuxedo-WV   ######################################## [ 88%]
  15:ca-ingres-vision-WV   ######################################## [ 94%]
  16:ca-ingres-bridge-WV   ######################################## [100%]
Ingres release 3 has installed successfully.
my-linux2

CHANGE ii.my-linux2.rcp.lock.per_tx_limit: (750)...(2000)

ii.my-linux2.rcp.lock.lock_limit: (13000)...(26333)
ii.my-linux2.rcp.lock.hash_size: (2593)...(5261)
```

```
ii.my-linux2.rcp.lock.resource_hash: (2593)...(5261)
ii.my-linux2.rcp.lock.resource_limit: (13000)...(26333)
ii.my-linux2.syscheck.rcp_segment: (11051008)...(22028288)

CHANGE ii.my-linux2.dbms.*.system_readlock: (shared)...(nolock)

The instance will now be started ...

Ingres/ingstart

Checking host "my-linux2" for system resources required to run Ingres...

Your system has sufficient resources to run Ingres.

Starting your Ingres installation...

Starting the Name Server...

Allocating shared memory for Logging and Locking Systems...

Starting the Recovery Server...
II_DBMS_SERVER = 39686

Starting the Archiver Process...

Starting DBMS Server (default)...
II_DBMS_SERVER = 54848

Starting Net Server (default)...
GCC Server = 52576
    TCP_IP port = WV (28336)

Starting Data Access Server (default)...


Starting Star Server (default)...
II_DBMS_SERVER = 43883

Starting the Visual DBA Remote Command Server...

Ingres installation successfully started.
ingstart has been called
The Advantage Ingres installation completed successfully.
Creating BrightStor ARCserve Backup database...
INGRES TERMINAL MONITOR Copyright 2005 Computer Associates Intl, Inc.
Ingres Linux Version II 3.0.3 (int.lnx/103) login
Thu Dec 20 23:11:32 2007

continue
* * Executing . . .

continue
*
Your SQL statement(s) have been committed.

Ingres Version II 3.0.3 (int.lnx/103) logout
Thu Dec 20 23:11:32 2007
```

Creating database 'cadbase' . . .

   Creating DBMS System Catalogs . . .
   Modifying DBMS System Catalogs . . .
   Creating Standard Catalog Interface . . .
   Creating Front-end System Catalogs . . .

Creation of database 'cadbase' completed successfully.

Creating tables for BrightStor ARCserve Backup database...
Creating indexes for BrightStor ARCserve Backup database...
Creating tables and indexes for BrightStor ARCserve Backup MMO database...

NOTE:

   The installation has created the user 'ingres'.
   Remember to define a password for this user.

Press Enter to continue ...**Enter**

BrightStor provides the ability to extend its internal database to multiple directory
locations. This allows for size growth if the underlying file system does not
support large files (> 2 GB) or does not have enough space. When the directory
locations are on multiple disks, this can result in a performance increase.

BrightStor lets you extend the internal database now or later.
Do you want to extend the database now? (y/n [n]):**Enter**

You can configure Advantage Ingres to shut down when the BrightStor ARCserve Backup database
engine is shut down.
NOTE: We do not recommend this shutdown if there are other applications using the same
Advantage Ingres installation.
Do you want to stop Advantage Ingres when the BrightStor ARCserve Backup database engine is shut down?
(y/n [n]):**Enter**

The BrightStor ARCserve Backup database installation completed successfully.

Will this BrightStor server share media with other BrightStor servers ?(default: n)[y|n] :

Will Vaulting Management be performed on this BrightStor server's media ?(default: n)[y|n] :

Configuring MMO on the local primary server...
A vnode for the MMO primary server is created!
Updating adapter and device information in camediad.cfg...

File system device must be created if you want to use Disk Staging feature. Do you want to enable backup t
o disks? (default: n) [y,n,q]:**Enter**

Scanning for SCSI devices

Do you want to configure libraries now? (default: n) [y,n,q]:
You can also configure local SCSI libraries through the GUI

Remember: shared libraries must be configured using the
command line ...

You can configure BrightStor ARCserve Backup to send email alerts to one
or more users when BrightStor ARCserve Backup detects a critical event.
(A critical event requires immediate attention)

Do you want to enable email alerts for critical events? (default: n)[y,n,q]:

By default, the BrightStor Logger will write some informational messages
to the system console (syslog).

Do you want to disable the BrightStor Logger from writing messages to the system console? (default: n)[y,n,
q]:**Enter**

Your settings are as follows:

        Maximum Activity log size (kbytes)   : 32000
        Maximum other log size (kbytes)   : 32000
        Print log files to spooler   : not set
        Email Alert   : not set
        Disable Log To System Console   : no

Your Logger has been configured by csetup. You can rerun csetup to change it.

You can configure BrightStor ARCserve Backup for automatic startup and shutdown as part of your operating s
ystem startup and shutdown.
Do you want to enable automatic startup and shutdown of BrightStor ARCserve Backup (y/n [y]):**Enter**

To complete the setup, BrightStor ARCserve Backup needs to be started

Do you want to start BrightStor ARCserve Backup now? (default: y) [y,n,q]:**Enter**

Starting BrightStor ARCserve Backup ...

Please wait for all services to start. This may take a few minutes...

BrightStor ARCserve Backup GUI daemons started

Initializing authentication database ...

Setting up password for caroot user account ...
[!!! WARNING: This is the main administrative password for
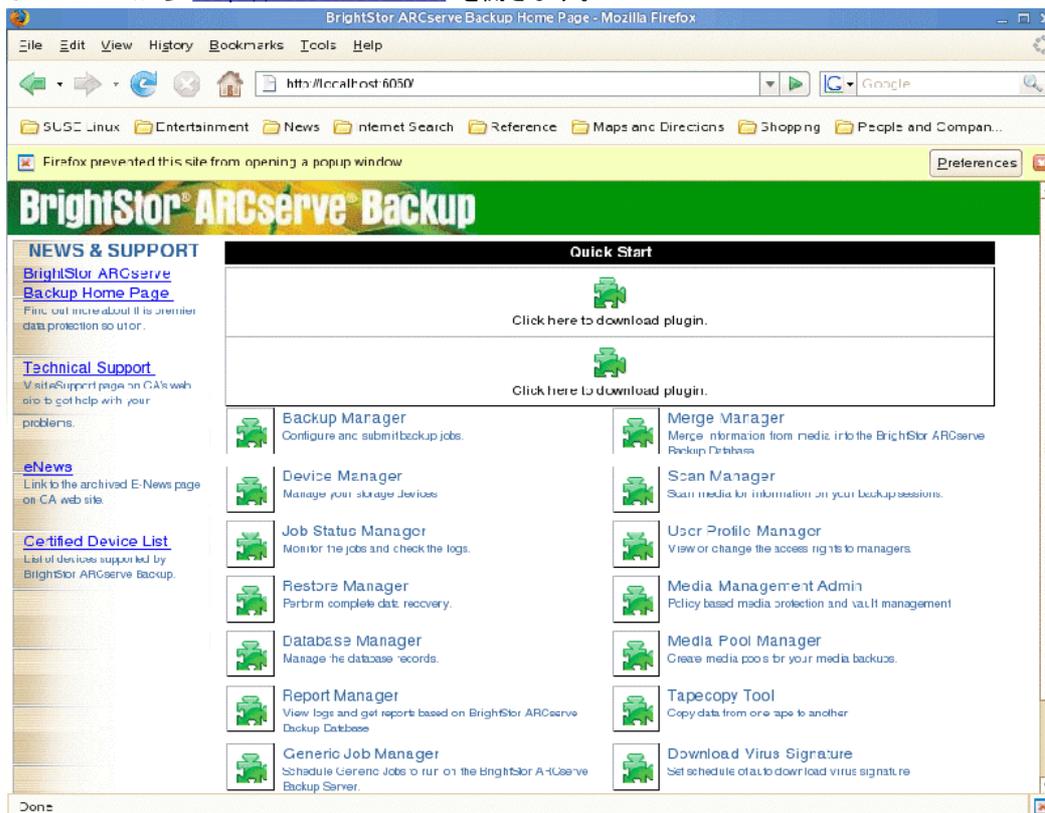BrightStor ARCserve Backup. Please remember this password for future use.]

Please enter the caroot password:********** <- caroot のパスワードをセットします**
Please confirm the caroot password:************

Setting up BrightStor ARCserve Backup resources...

Congratulations! BrightStor ARCserve Backup has been set up on my-linux2 successfully.

ここで FireFox から http://localhost:6060 を開きます。

まだ、 Java のプラグインがインストールされていないため、アイコンが出てきません。

jdk-6u3-linux-i586-rpm.bin のインストール

　http://java.sun.com から適切な Java Runtime Edition を捜してインストールします。
ここでは jdk-6u3-linux-i586-rpm.bin をインストールしてみます。ダウンロードしたインストーラに
X (実行)フラグをつけます。

\# ./jdk-6u3-linux-i586-rpm.bin
でインストールします。

Fire Fox プラグインへ登録

/user/lib/firefox/plugin に ns7 用 libjavaplugin.oji.so のシンボリックリンクを ln –s コマンドで作ります。

```
my-linux2:/usr/lib/firefox/plugins # ls /usr/java/jdk1.6.0_03/jre/plugin/i386/ns7
libjavaplugin_oji.so
my-linux2:/usr/lib/firefox/plugins # ln -s /usr/java/jdk1.6.0_03/jre/plugin/i386/ns7/libjavaplugin_oji.so
<- ln -s コマンド ns7 用 Java Plugin を登録します
my-linux2:/usr/lib/firefox/plugins # ls -al
total 21
drwxr-xr-x  2 root root   120 Dec 21 16:21 .
drwxr-xr-x 13 root root   968 Dec 21 16:13 ..
lrwxrwxrwx  1 root root    62 Dec 21 16:21 libjavaplugin_oji.so -> /usr/java/jdk1.6.0_03/jre/plugin/i386/n
s7/libjavaplugin_oji.so <-  プラグインのシンボリックリンクが作成されました
```
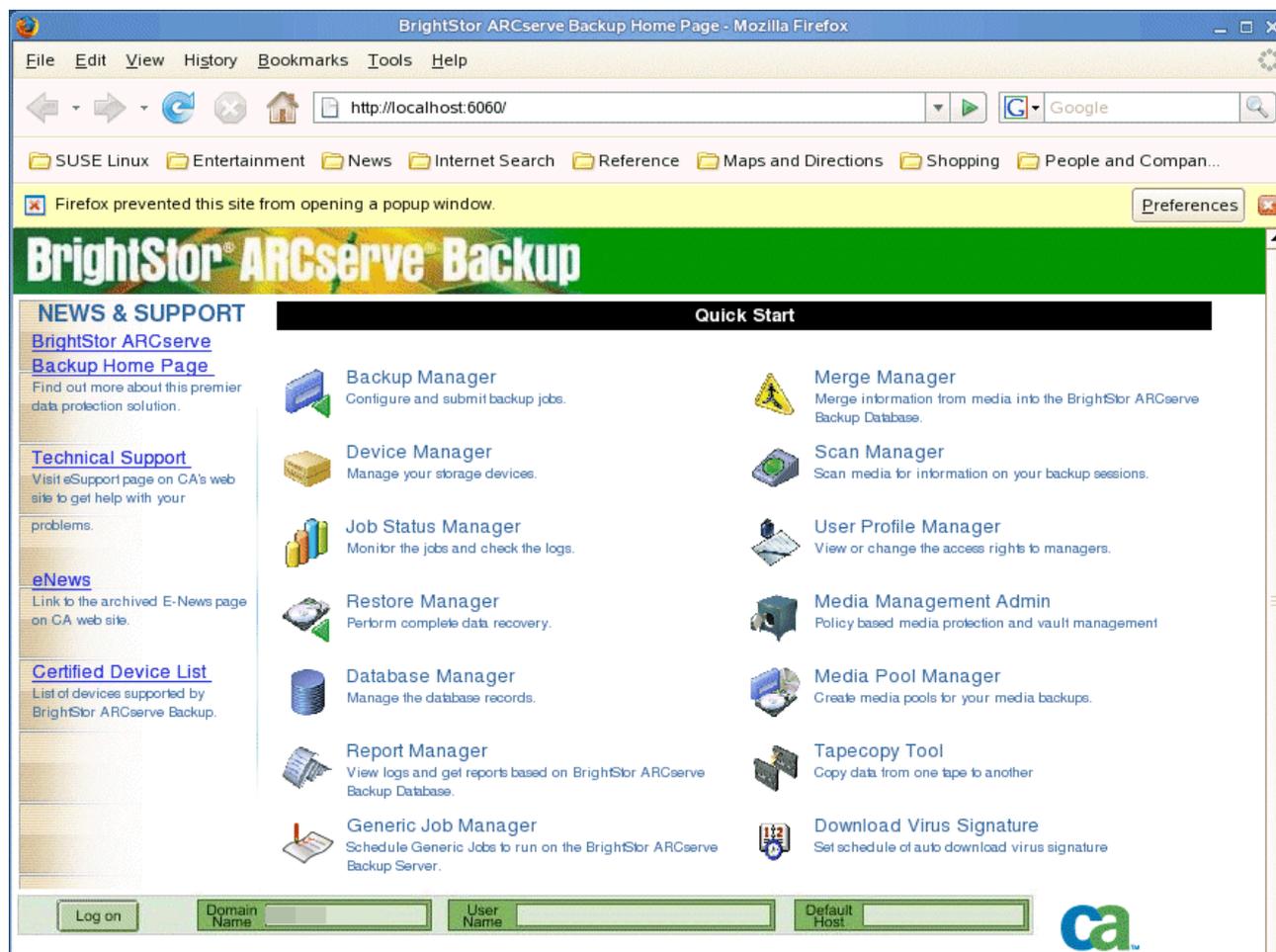
```
-rwxr-xr-x  1 root root 19080 May 19  2007 libnullplugin.so
my-linux2:/usr/lib/firefox/plugins #
```

FireFox から http://localhost:6060 を開きます。

正常にアイコンが表示されれば完了です。