

## ■ VMware Player のセットアップ

VMware Player は VMware 社のホームページからダウンロードして、書籍の内容を参考にセットアップしてください。

VMware のバージョンは最新の **6.0.2** を使用します。**書籍に記載のバージョン 4.0.3 とは異なります。**

## ■ 前提とする PC 環境

**書籍に記載のものとは必要なマシンスペック、OS、VMware バージョンが異なります。**

CPU: x86-64 で Intel VT または AMD-V のもの

メモリ: **6G バイト**以上 (BIG-IP の仮想メモリには自動で **2G バイト**割り当てられます。この仮想メモリは変更しないようにしてください)

ハードディスク: **4G バイト**以上

OS: **Windows 7/8 64 ビット** (64 ビット OS が必要です)

## ■ 仮想マシンのセットアップ


「2.3 仮想マシンのセットアップ」の内容を参考にセットアップしてください。

VMware Player 6.0.2 で「仮想マシン設定」を開くには、VMware Player 上部から「Player」-「管理」-「仮想マシン設定」をクリックします。

## ■ 2.4.1 BIG-IP LTM Virtual Edition のダウンロード

### ● BIG-IP のダウンロード

- ① 「<http://f5.com/trial>」にアクセスします。
- ② 「Go to BIG-IP LTM VE Download」をクリックします。


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### Download Free Trial and Go!

Ready to try BIG-IP? Get started today. Download a free trial of LTM VE.

[Get the 90-Day BIG-IP LTM VE Trial](#)

**BIG-IP LTM VE is the core of application delivery:**

- Intelligent traffic management
- Increase operational efficiency
- Ensure peak application performance
- Access control for 10 concurrent BIG-IP Access Policy Manager user sessions

The **BIG-IP LTM VE Free Trial** is available as version 11.3.0 hotfix 1 for a VMware hypervisor environment.

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### Get Free Full-Featured Evaluation License

Need more features or want to test out the latest version? The 30-day evaluation licenses include the latest version of the entire BIG-IP solution set.

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Free evaluation licenses are available for these F5 products:

- BIG-IP Local Traffic Manager
- BIG-IP Global Traffic Manager
- BIG-IP Application Acceleration Manager
- BIG-IP Advanced Firewall Manager
- BIG-IP Access Policy Manager
- BIG-IP Application Security Manager
- BIG-IP Carrier-Grade NAT
- BIG-IP Policy Enforcement Manager

Optional add-on evaluation licenses include:

### Buy BIG-IP for Your Development Lab

Want to build, test, configure and stage BIG-IP modules in your development lab? The BIG-IP Lab License provides a full-featured VE version of the BIG-IP solution set for a nominal fee. No time limits!

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F5's low-cost **BIG-IP lab license** includes:

- BIG-IP Local Traffic Manager
- BIG-IP Global Traffic Manager
- BIG-IP Application Acceleration Manager
- BIG-IP Advanced Firewall Manager
- BIG-IP Access Policy Manager
- BIG-IP Application Security Manager

F5 lab licenses are also available for:

- BIG-IP Carrier-Grade NAT
- BIG-IP Policy Enforcement Manager

- ③ F5.com アカウントを持っている場合は「Login」をクリックしてログインします。  
持っていない場合は「Register」をクリックして F5.com アカウントを作成してください。


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[BIG-IP LTM VE](#)
[SELF-HELP](#)

configuration and restore it to a production BIG-IP device to experience the ultimate in flexibility.

**Requirements:**

- To access the trial, you'll need to sign-in or create an F5 account. We'll send you a registration key that you will use to [download](#) the trial.


**Specifications:**

- Supported Hypervisors: VMware ESXi 5.1 and 5.5, vCloud Director 5.1
- BIG-IP Version: VE Trial 11.3.0 hotfix 1
- Maximum L4/L7 Throughput: 1 Mbps
- Disk Space Required: 18 GB
- Memory Required: 2 GB
- Number of Processors Required: 1 vCPU
- Max. Concurrent SSL VPN Users: 10

**Yes - I am interested in a 90-day trial**

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Home > Login  
 Registered users please log in below.  
 You must be logged in to access the requested resource.



USER EMAIL:   
 PASSWORD:

[Register for an Account >>](#)  
[Forgot Password >>](#)



 Problems logging in?  
 Visit our FAQ section  
 for some helpful  
 hints

**I have an F5 ID. Can I use that here?**

Not at this time. Your F5 Support ID and your F5 ID are separate logins at this time. Your F5 ID provides access to premium resources on f5.com and DevCentral. Your F5 Support ID provides single sign-on access to support, services and education resources on websites such as support.f5.com, websupport.f5.com, iHealth.f5.com, downloads.f5.com and F5 University. If you are an F5 Partner, your F5 Support ID also grants you access to valuable resources on our Partner Resource Center.

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#### ④ 「Generate Registration Key」をクリックします。



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PRODUCTS

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BIG-IP LTM increases your operational efficiency and ensures peak application performance by providing a flexible, high-performance application delivery system. The 90-day trial gives you the ability to run BIG-IP LTM and 10 concurrent BIG-IP Access Policy Manager user sessions with your network applications in a pre-production environment to test configurations. When you are ready to use BIG-IP in production, back up your configuration and restore it to a production BIG-IP device to experience the ultimate in flexibility.

**Requirements:**

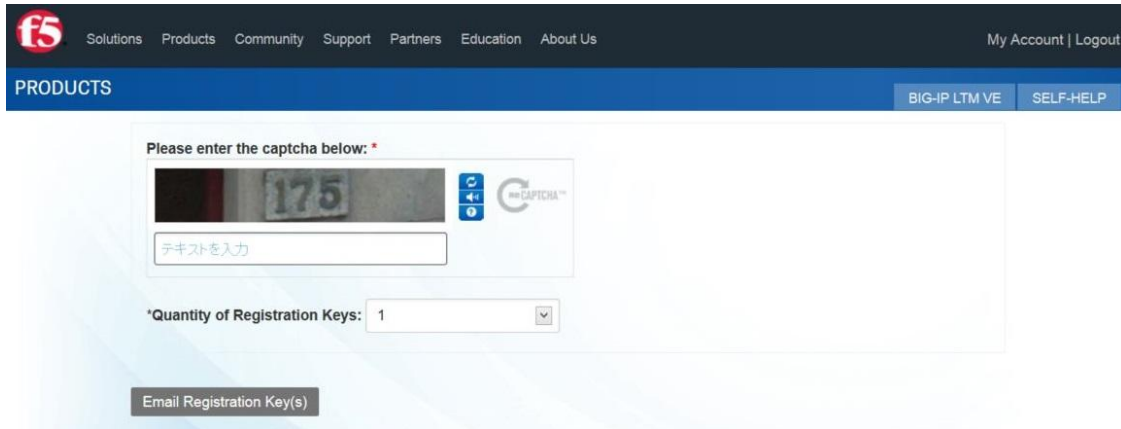
- To access the trial, you'll need to sign-in or create an F5 account. We'll send you a registration key that you will use to [download](#) the trial.

**Specifications:**

- Supported Hypervisors: VMware ESXi 5.1 and 5.5, vCloud Director 5.1
- BIG-IP Version: VE Trial 11.3.0 hotfix 1
- Maximum L4/L7 Throughput: 1 Mbps
- Disk Space Required: 18 GB
- Memory Required: 2 GB
- Number of Processors Required: 1 vCPU
- Max. Concurrent SSL VPN Users: 10

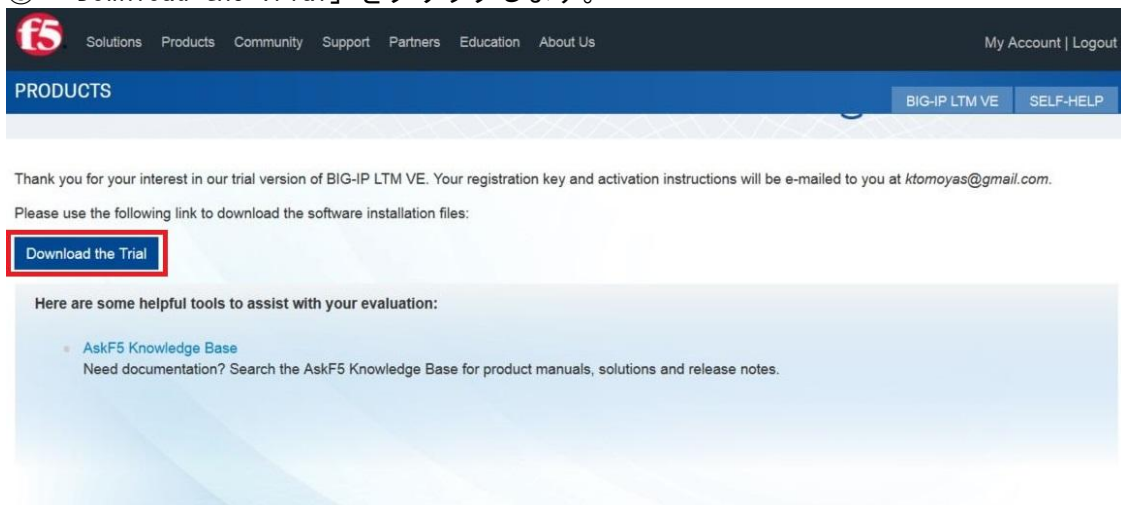
Download today to see how BIG-IP LTM can deliver your business critical applications securely, rapidly, and reliably to anyone, anywhere, at any time.

⑤ captcha の認証コードと「Quantity of Registration Key」にライセンス数を入力し、「Email Registration Key(s)」をクリックします。



The screenshot shows the f5 website's registration page. At the top, there is a navigation bar with the f5 logo and links for Solutions, Products, Community, Support, Partners, Education, and About Us. On the right, there are links for My Account and Logout. Below the navigation bar is a blue header with the word "PRODUCTS" and two buttons: "BIG-IP LTM VE" and "SELF-HELP". The main content area has a light blue background with a large, faint "f5" watermark. It contains a form with the following elements: a captcha prompt "Please enter the captcha below: \*" with a captcha image showing the number "175" and a reCAPTCHA logo; a text input field with the placeholder "テキストを入力"; a label "\*Quantity of Registration Keys:" followed by a dropdown menu showing the number "1"; and a button labeled "Email Registration Key(s)".

⑥ 「Download the Trial」をクリックします。



The screenshot shows the f5 website's registration page after the registration key has been emailed. The top navigation bar and header are the same as in the previous screenshot. The main content area has a light blue background with a large, faint "f5" watermark. It contains the following text: "Thank you for your interest in our trial version of BIG-IP LTM VE. Your registration key and activation instructions will be e-mailed to you at ktomoyas@gmail.com." followed by "Please use the following link to download the software installation files:". Below this text is a button labeled "Download the Trial", which is highlighted with a red rectangular border. At the bottom, there is a section titled "Here are some helpful tools to assist with your evaluation:" followed by a link to "AskF5 Knowledge Base" and a note: "Need documentation? Search the AskF5 Knowledge Base for product manuals, solutions and release notes."

⑦ 「I Accept」をクリックします。



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--  
  
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⑧ 「BIGIP-11.3.0.39.0-scsi.ova」をクリックします。





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### Select a Download

**Product:** BIG-IP v11.x / Virtual Edition

**Version:** 11.3.0

**Container:** Virtual-Edition-Trial

The Virtual-Edition Trial requires a specific license key for this product to properly function. Please visit <http://www.f5.com/trial> to generate your Trial license.

Please select the file you wish to download, make sure you have read the appropriate [Release Notes](#) before attempting to use the file.

Filename	Description	Size
README_VE.txt	ReadMe_VE.txt	495 Bytes
BIGIP-11.3.0.39.0-ide.ova	Image fileset for Citrix XenServer v5.6-v6.0	693 MB
BIGIP-11.3.0.39.0-ide.ova.md5	MD5 file for Image fileset for Citrix XenServer v5.6-v6.0	59 Bytes
BIGIP-11.3.0.39.0-scsi.ova	Image fileset for VMware ESX/i Server v4.0-5.1	685 MB
BIGIP-11.3.0.39.0-scsi.ova.md5	MD5 file for Image fileset for VMware ESX/i Server v4.0-5.1	60 Bytes
BIGIP-11.3.0.39.0-vCloud.zip	Image fileset for vCloud Director 1.5	666 MB
BIGIP-11.3.0.39.0-vCloud.zip.md5	MD5 file for Image fileset for vCloud Director 1.5	62 Bytes
BIGIP-11.3.0.39.0-qcow2.zip	Image file set for KVM Red Hat Enterprise Linux 6.3 - CentOS 6.3	681 MB
BIGIP-11.3.0.39.0-qcow2.zip.md5	MD5 file for Image file set for KVM Red Hat Enterprise Linux 6.3 - CentOS 6.3	61 Bytes

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## ⑨ 「JAPAN」 をクリックします。



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### Download Locations

Now that you have selected the file you wish to download, please select one of the locations or methods below.

For the best performance, please select the link from the location nearest you:

Download - BIGIP-11.3.0.39.0-scsi.ova	
	<a href="#">USA - EAST COAST</a>
	<a href="#">USA - WEST COAST</a>
	<a href="#">JAPAN</a>
	<a href="#">SINGAPORE</a>
	<a href="#">AUSTRALIA</a>
	<a href="#">IRELAND</a>
	<a href="#">BRAZIL</a>

- ⑩ 「ファイルを保存する」をクリックし、任意のフォルダに保存します。

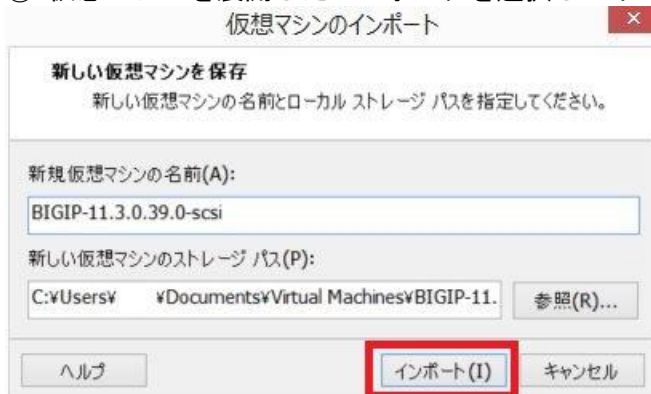


## ●BIG-IP の起動

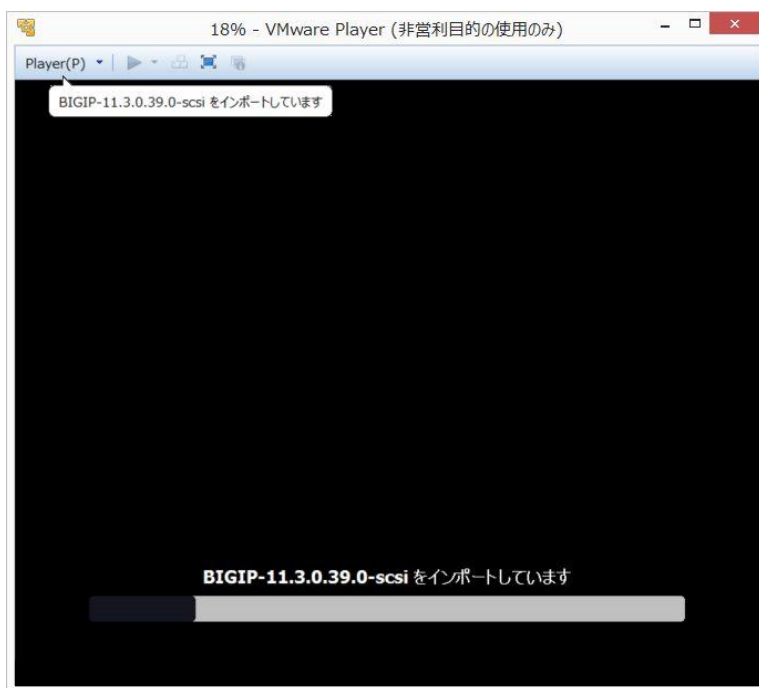
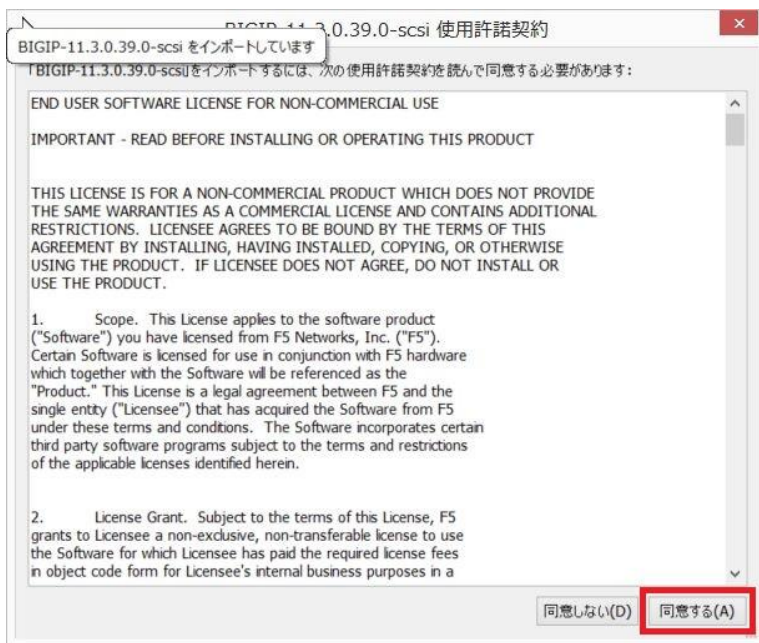
- ① ダウンロードした「BIGIP-11.3.0.39.0-scsi.ova」をダブルクリックします。



- ② 仮想マシンを展開したいフォルダを選択し「インポート」をクリックします。



- ③ 「同意する」をクリックします。



④ VMware Player のコンソール上でユーザ名「root」、パスワード「default」を入力します。





## ■ 2.4.2 BIG-IP のセットアップ

### ● 管理インターフェースのセットアップ

① VMware Player のコンソール上で以下のコマンドを入力します。

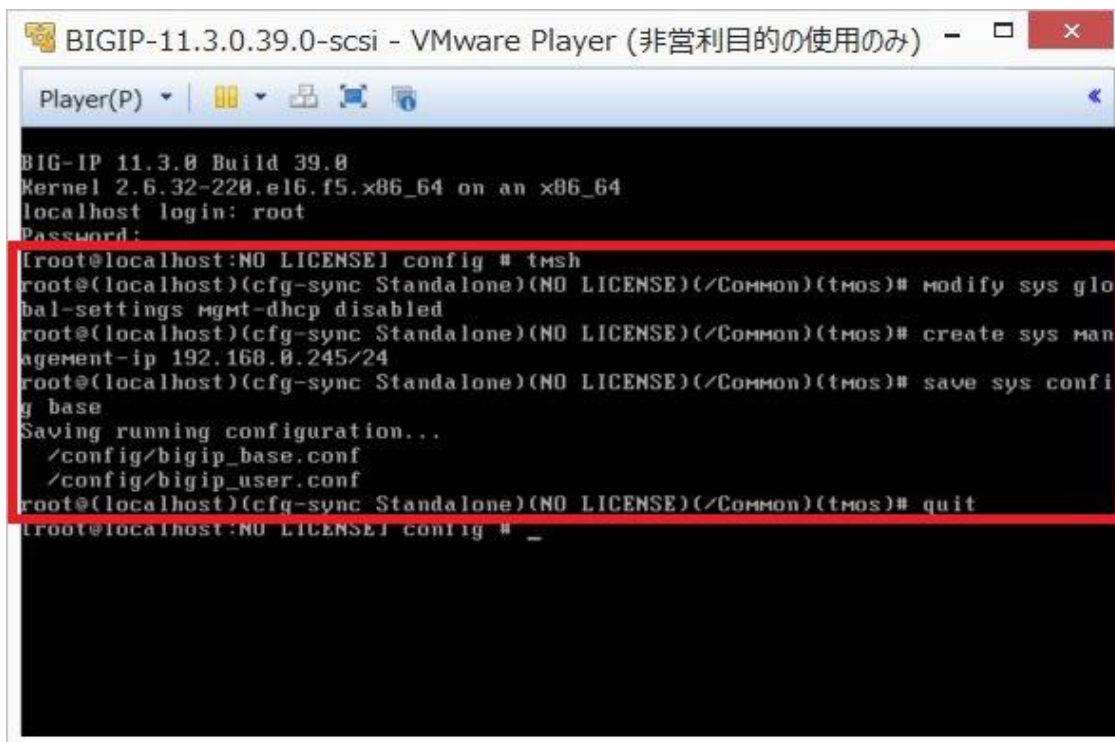
---

```
tmsh
modify sys global-settings mgmt-dhcp disabled
create sys management-ip 192.168.0.245/24
save sys config base
quit
```

---

※ IP アドレスはご自分の環境に合わせて設定してください。上記の手順は「192.168.0.245/24」として設定しています。

※ 「create sys management-ip 192.168.1.245/24」を入力して「already exists」のエラーが出た場合、そのまま「save sys...」へ進んでください。



```
BIG-IP 11.3.0 Build 39.0
Kernel 2.6.32-220.el6.i586 on an x86_64
localhost login: root
Password:
[root@localhost:~]# tmsh
root@(localhost)(cfg-sync Standalone)(NO LICENSE)(/Common)(tmsh)# modify sys global-settings mgmt-dhcp disabled
root@(localhost)(cfg-sync Standalone)(NO LICENSE)(/Common)(tmsh)# create sys management-ip 192.168.0.245/24
root@(localhost)(cfg-sync Standalone)(NO LICENSE)(/Common)(tmsh)# save sys config base
Saving running configuration...
  /config/bigip_base.conf
  /config/bigip_user.conf
root@(localhost)(cfg-sync Standalone)(NO LICENSE)(/Common)(tmsh)# quit
[root@localhost:~]#
```

### ●管理 IP アドレスの確認

① VMware Player のコンソール上で以下のコマンドを入力し、管理 IP アドレスが設定されていることを確認してください。

```
tmsh
list sys management-ip
quit
```

```
BIG-IP 11.3.0 Build 39.0
Kernel 2.6.32-220.el6.i586 on an x86_64
localhost login: root
Password:
[root@localhost:~]# config # tmsh
root@(localhost)(cfg-sync Standalone)(NO LICENSE)(/Common)(tmsh)# modify sys global-settings mgmt-dhcp disabled
root@(localhost)(cfg-sync Standalone)(NO LICENSE)(/Common)(tmsh)# create sys management-ip 192.168.0.245/24
root@(localhost)(cfg-sync Standalone)(NO LICENSE)(/Common)(tmsh)# save sys config base
Saving running configuration...
  /config/bigip_base.conf
  /config/bigip_user.conf
root@(localhost)(cfg-sync Standalone)(NO LICENSE)(/Common)(tmsh)# quit
[root@localhost:~]# config # tmsh
root@(localhost)(cfg-sync Standalone)(NO LICENSE)(/Common)(tmsh)# list sys management-ip
sys management-ip 192.168.0.245/24 { }
root@(localhost)(cfg-sync Standalone)(NO LICENSE)(/Common)(tmsh)# quit
[root@localhost:~]# config # _
```

② ping <管理 IP アドレス>でリプライがあるかを確認します。

```
C:\windows\system32\cmd.exe
C:\Users¥ >ping 192.168.0.245

192.168.0.245 に ping を送信しています 32 バイトのデータ:
192.168.0.245 から応答: バイト数 =32 時間 <1ms TTL=64
192.168.0.245 から応答: バイト数 =32 時間 <1ms TTL=64
192.168.0.245 から応答: バイト数 =32 時間 <1ms TTL=64
192.168.0.245 から応答: バイト数 =32 時間 <1ms TTL=64

192.168.0.245 の ping 統計:
    パケット数: 送信 = 4、受信 = 4、損失 = 0 (0% の損失)、
    ラウンドトリップの概算時間 (ミリ秒):
        最小 = 0ms、最大 = 0ms、平均 = 0ms

C:\Users¥ >
```

③ ブラウザで「<https://192.168.0.245>」に対してアクセスします。証明書の警告画面が表示されますが、そのまま進んでください。

④ Username に「admin」、Password に「admin」を入力します。



The image shows the login page of the BIG-IP Configuration Utility. The header includes the F5 logo and the text "IT Agility. Your Way.™" and "BIG-IP® Configuration Utility F5 Networks, Inc.". On the left, there are input fields for "Hostname" (bigip1), "IP Address" (192.168.0.245), "Username", and "Password". A red rectangle highlights the "Username" and "Password" fields along with the "Log in" button. The main content area contains a welcome message and instructions to log in. The footer shows copyright information for F5 Networks, Inc.

Hostname  
bigip1

IP Address  
192.168.0.245

Username

Password

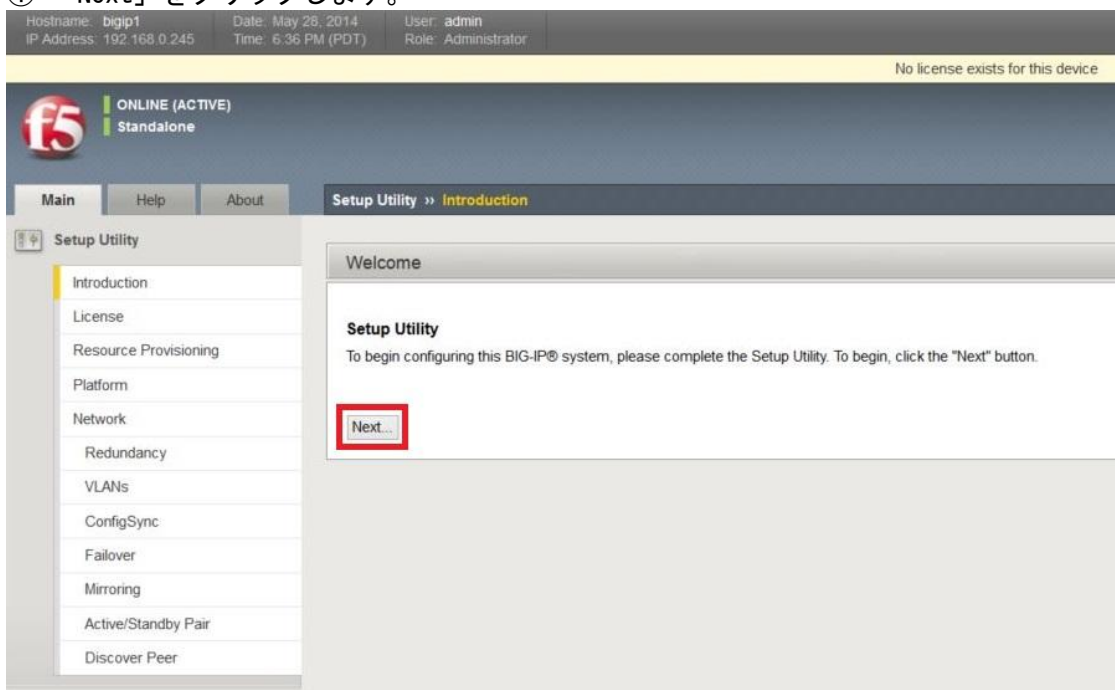
Log in

Welcome to the BIG-IP Configuration Utility.  
Log in with your username and password using the fields on the left.

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## ● アクティベーション

① 「Next」 をクリックします。



The image shows the "Setup Utility" introduction screen. The top status bar displays system information: Hostname: bigip1, Date: May 26, 2014, User: admin, IP Address: 192.168.0.245, Time: 6:36 PM (PDT), Role: Administrator. A yellow banner indicates "No license exists for this device". The main header shows "ONLINE (ACTIVE) Standalone". The left sidebar contains a "Setup Utility" menu with options: Introduction, License, Resource Provisioning, Platform, Network, Redundancy, VLANs, ConfigSync, Failover, Mirroring, Active/Standby Pair, and Discover Peer. The "Introduction" page displays a "Welcome" message and a "Setup Utility" section with instructions to click the "Next" button. A red rectangle highlights the "Next..." button.

Hostname: bigip1 Date: May 26, 2014 User: admin  
IP Address: 192.168.0.245 Time: 6:36 PM (PDT) Role: Administrator

No license exists for this device

ONLINE (ACTIVE)  
Standalone

Main Help About Setup Utility » Introduction

Setup Utility

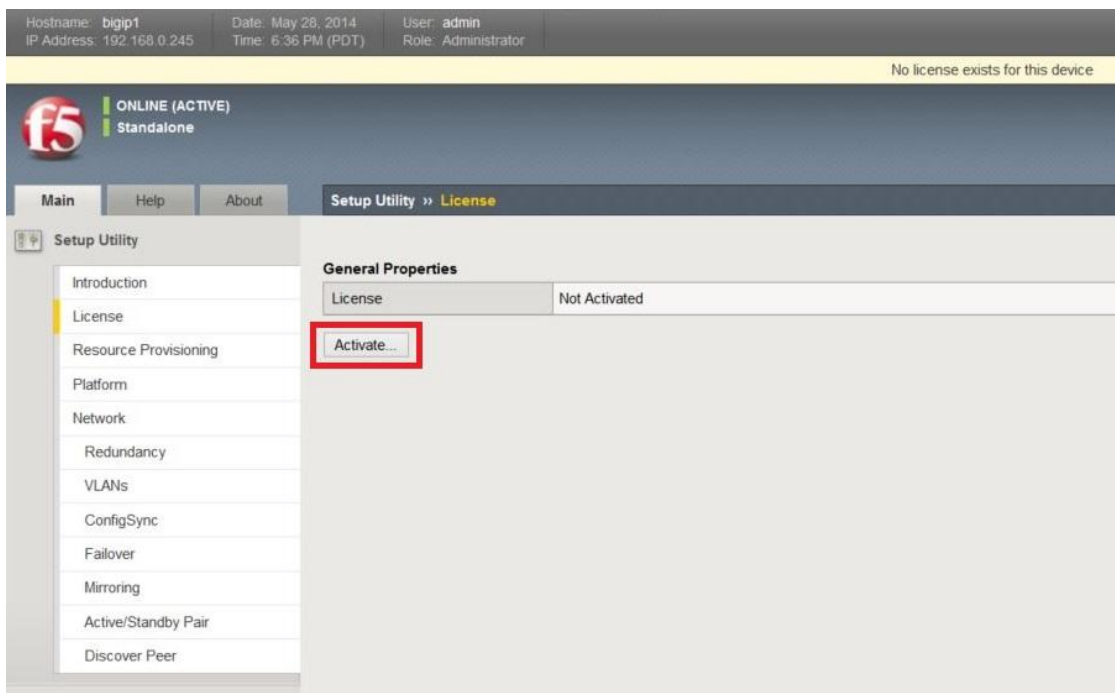
- Introduction
- License
- Resource Provisioning
- Platform
- Network
- Redundancy
- VLANs
- ConfigSync
- Failover
- Mirroring
- Active/Standby Pair
- Discover Peer

Welcome

**Setup Utility**  
To begin configuring this BIG-IP® system, please complete the Setup Utility. To begin, click the "Next" button.

Next...

② 「Activate」 をクリックします。



③ 表示画面で以下のように入力、選択し「Next」をクリックします。

Base Registration Key: (メールで送られてきた Registration Key(s) を入力)  
Activation Method: Manual

Hostname: bigip1 Date: May 28, 2014 User: admin  
IP Address: 192.168.0.245 Time: 6:37 PM (PDT) Role: Administrator

No license exists for this device

**f5** ONLINE (ACTIVE)  
Standalone

Main Help About Setup Utility » License

Setup Utility

- Introduction
- License
- Resource Provisioning
- Platform
- Network
- Redundancy
- VLANs
- ConfigSync
- Failover
- Mirroring
- Active/Standby Pair
- Discover Peer

**General Properties**

Base Registration Key  Revert

Add-On Key  Add

Add-On Registration Key List

Edit Delete

Activation Method ☐ Automatic ☒ Manual

Next...

④ Manual Method で「Download/Upload File」選択し、「Click Here To Download Dossier File」をクリックします。Dossier ファイルを任意の場所に保存してください。

Hostname: bigip1 Date: May 28, 2014 User: admin  
IP Address: 192.168.0.245 Time: 6:38 PM (PDT) Role: Administrator

No license exists for this device

**f5** ONLINE (ACTIVE)  
Standalone

Main Help About Setup Utility » License

Setup Utility

- Introduction
- License
- Resource Provisioning
- Platform
- Network
- Redundancy
- VLANs
- ConfigSync
- Failover
- Mirroring
- Active/Standby Pair
- Discover Peer

**General Properties**

Registration Key

Registration Key List

Manual Method ☐ Copy/Paste Text ☒ Download/Upload File

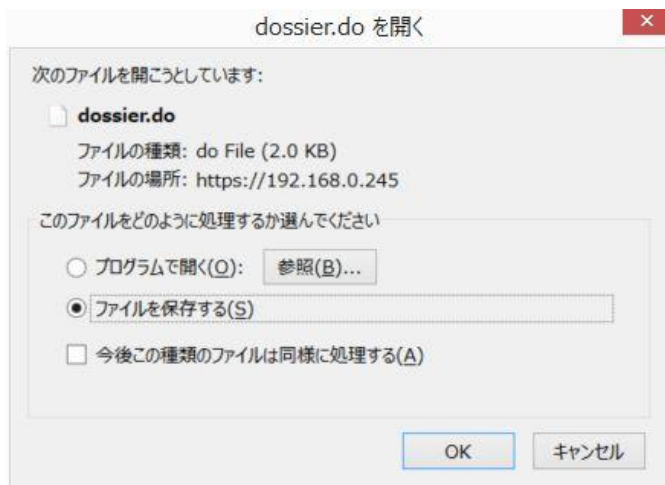
Step 1: Dossier [Click Here To Download Dossier File](#)

Step 2: Licensing Server [Click here to access F5 Licensing Server](#)

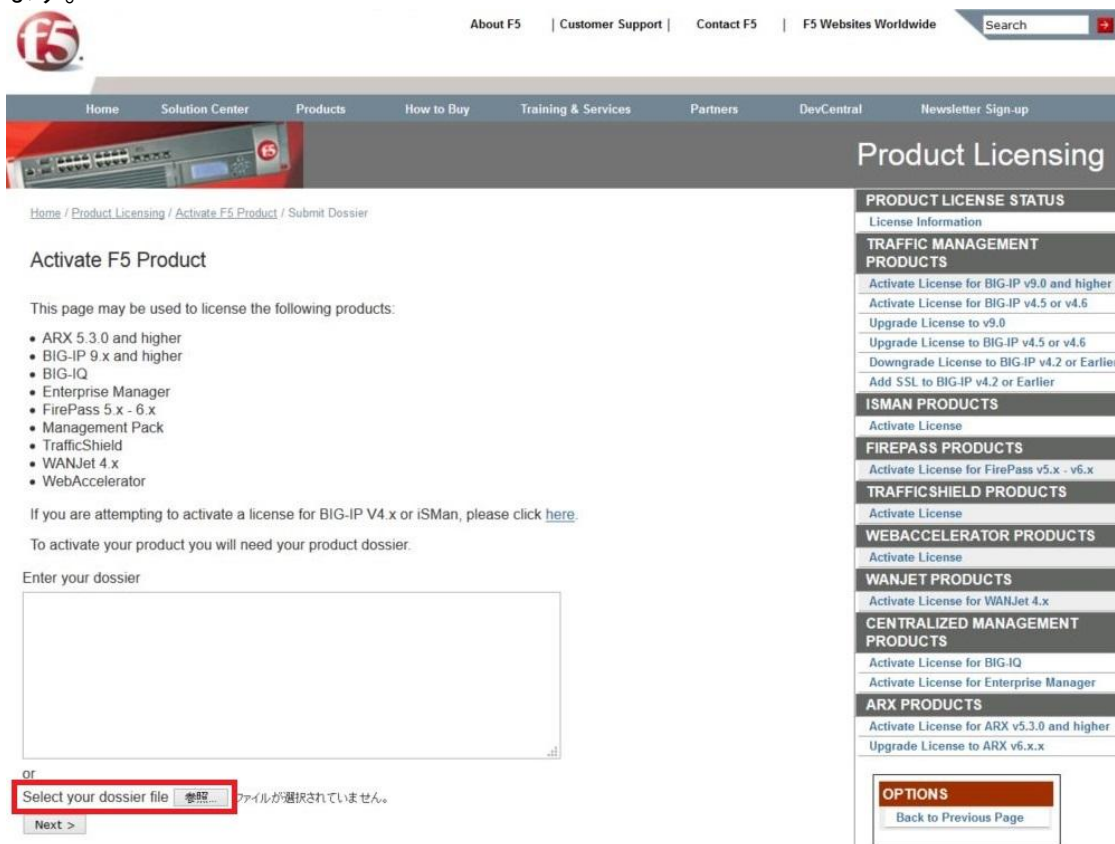
Step 3: License [参照...](#) ファイルが選択されていません。

Next...







⑤ 「<https://activate.f5.com/license/>」 にアクセスし、Dossier ファイルをアップロードします。




⑥ 「I have read and agree to the terms of this license」 にチェックを入れ「Next」をクリックします。


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Cut and paste your license key from the form below, or click the download button to download a copy of the license file.

```

#
Auth vers :      5b
#
#
#   BIG-IP System License Key File
#   DO NOT EDIT THIS FILE!!
#
#   Install this file as "/config/bigip.license".
#
#   Contact information in file /CONTACTS

```

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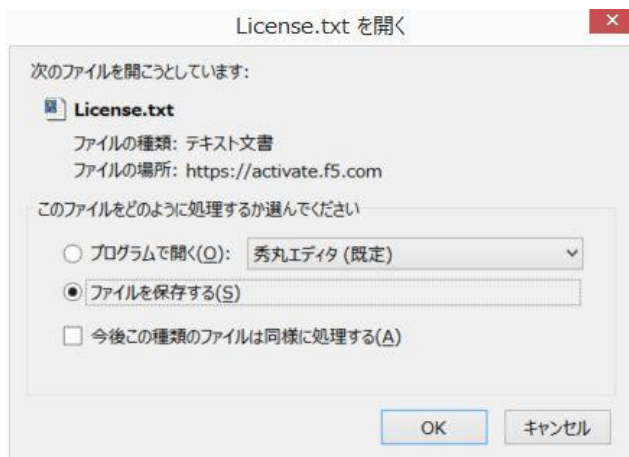
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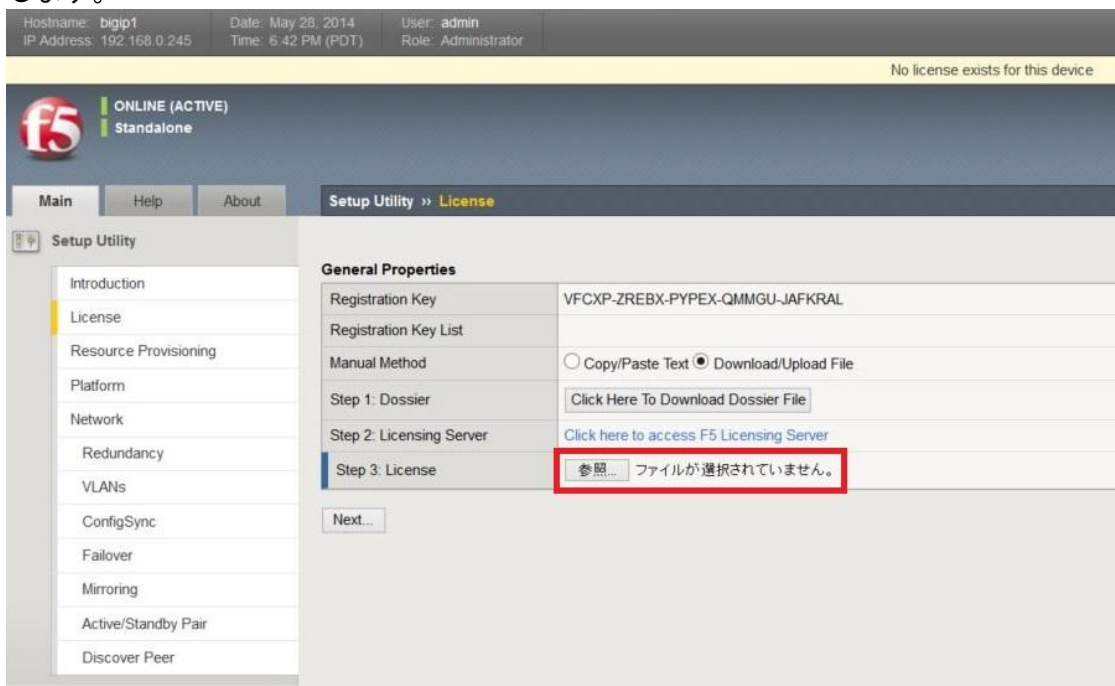
#### FIREPASS PRODUCTS

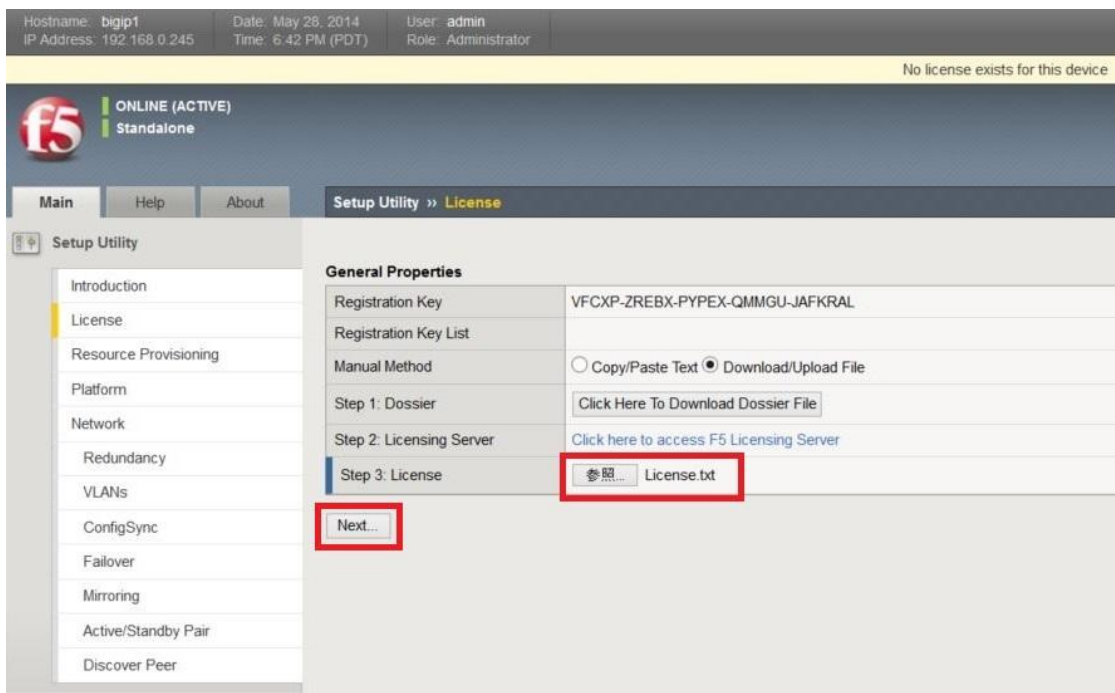
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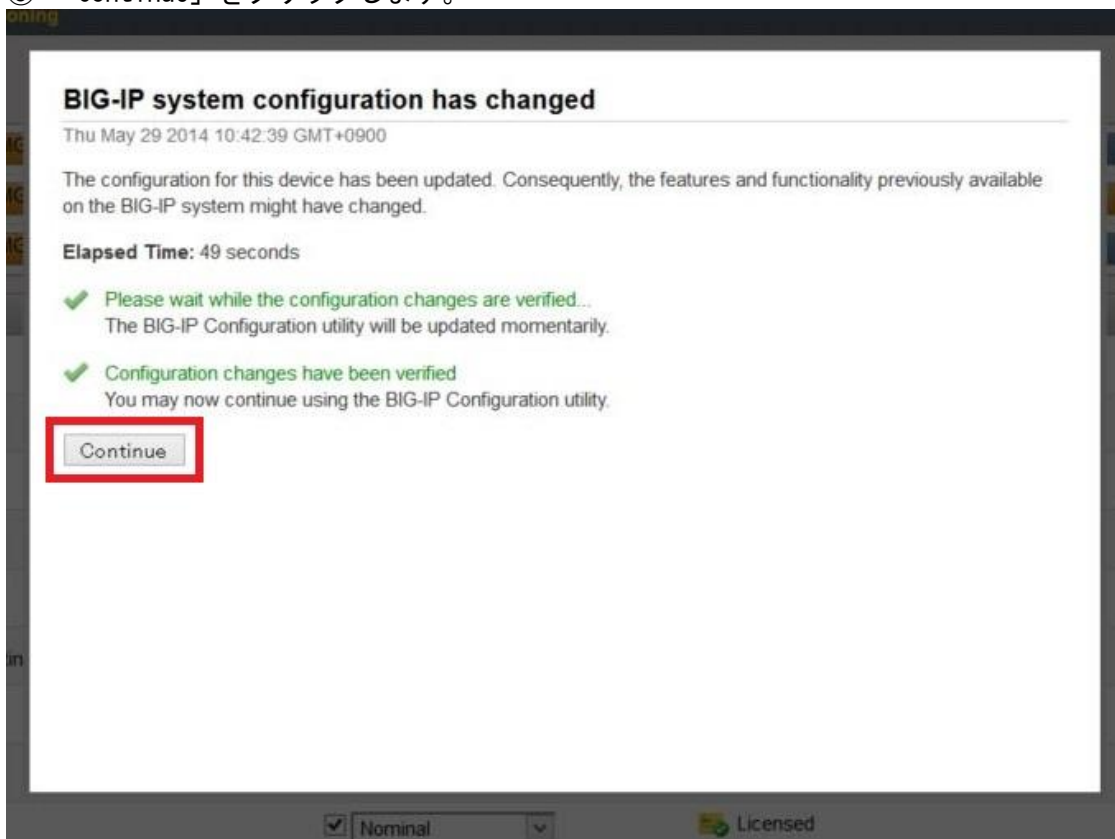


⑧ BIG-IP にアクセスしているブラウザ画面に戻り、License.txt を選択、「Next」をクリックします。



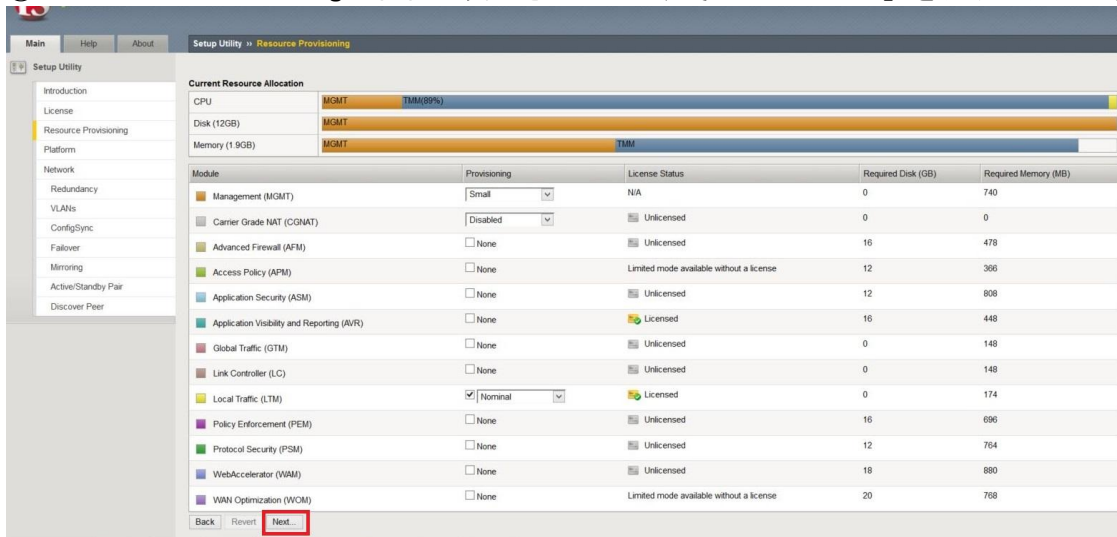


⑨ 「Continue」をクリックします。



## ●プロビジョニング

① Resource Provisioning の画面が表示されるので、そのまま「Next」をクリックします。



## ●初期設定

① 以下のように設定します。

--- General Properties ---

Management Port Configuration: Manual

Management Port

IP Address[/prefix]: <先ほど設定した IP アドレスを入力>

Network Mask: <先ほど入力したサブネットマスクを入力>

Hostname: bigip1.local

Timezone: Japan

--- User Administration ---

Root Account: default

Admin Account: default

Hostname: bigip1    Date: May 28, 2014    User: admin  
IP Address: 192.168.0.245    Time: 6:46 PM (PDT)    Role: Administrator

**f5** ONLINE (ACTIVE) Standalone    **Activation Complete**  
Configure your platform.

Main    Help    About    Setup Utility » Platform

Setup Utility

- Introduction
- License
- Resource Provisioning
- Platform**
- Network
- Redundancy
- VLANs
- ConfigSync
- Failover
- Mirroring
- Active/Standby Pair
- Discover Peer

**General Properties**

Management Port Configuration    ☐ Automatic (DHCP)    ☒ Manual

Management Port    IP Address[/prefix]: 192.168.0.245  
Network Mask: 255.255.255.0    255.255.255.0  
Management Route:

Host Name    bigip1.local

Host IP Address    Use Management Port IP Address

Time Zone    Japan

**User Administration**

Root Account    Password: .....  
Confirm: .....

Admin Account    Password: .....  
Confirm: .....

SSH Access    ☒ Enabled

SSH IP Allow    \* All Addresses

Back    Next...

② 「Next」をクリックします。

③ パスワードを変更したことを示す警告ウィンドウが表示されるので「OK」をクリックします。

**Activation Complete**  
Configure your platform.

Setup Utility » Platform

**General Properties**

Management Port Configuration    ☐ Automatic (DHCP)    ☒ Manual

Management Port    IP Address[/prefix]: 192.168.0.245  
Network Mask: 255.255.255.0    255.255.255.0  
Management Route:

Host Name    bigip1.local

Host IP Address    Use Management Port IP Address

Time Zone    Japan

**User Administration**

Root Account    Password: .....  
Confirm: .....

Admin Account    Password: .....  
Confirm: .....

SSH Access    ☒ Enabled


SSH IP Allow    \* All Addresses

Since you have updated your password, you will be logged out and must log in with your new password before continuing.

OK

④ Username に「admin」、Password に「default」を入力して、ログインします。





IT Agility. Your Way.™

BIG-IP® Configuration Utility  
F5 Networks, Inc.

**Hostname**  
bigip1.local

**IP Address**  
192.168.0.245

Your credentials are no longer valid. Please log in again.

**Username**

**Password**

Log in


Welcome to the BIG-IP Configuration Utility.

Log in with your username and password using the fields on the left.

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⑤ 「Finished」をクリックします。

Hostname: bigip1.local    Date: May 29, 2014    User: admin  
IP Address: 192.168.0.245    Time: 10:47 AM (JST)    Role: Administrator



ONLINE (ACTIVE)  
Standalone

Main    Help    About    Setup Utility » Network

Setup Utility

Introduction

License

Resource Provisioning

Platform

Network

Redundancy

VLANs

ConfigSync

Failover

Mirroring

Active/Standby Pair

Discover Peer

**Standard Network Configuration**  
Create a standard network configuration by configuring these features:

- Redundancy
- VLANs
- Config Sync
- Failover
- Mirroring
- Peer Device Discovery (for Redundant Configurations)

Next...

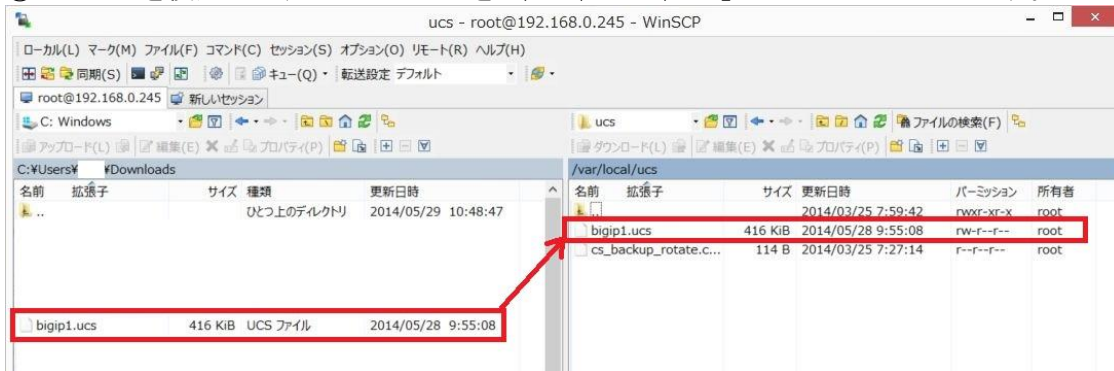
**Advanced Network Configuration**  
Create advanced device configurations by clicking **Finished** and navigating to the Main tab of the Configuration Utility.

**Finished**

## 2.4.3 設定のリストア

### ●UCS ファイルのアップロード

- ① サイト上にある UCS ファイルをダウンロードします。
- ② WinSCP を使用して、UCS ファイルを「/var/local/ucs」にアップロードします。



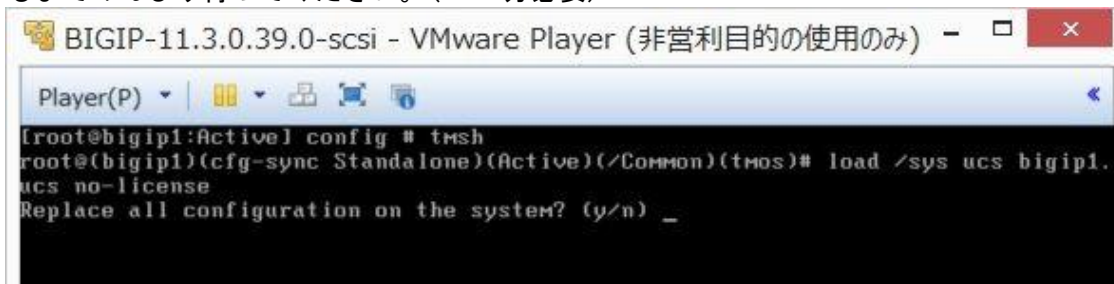
詳細は書籍の P. 52 を参照してください。

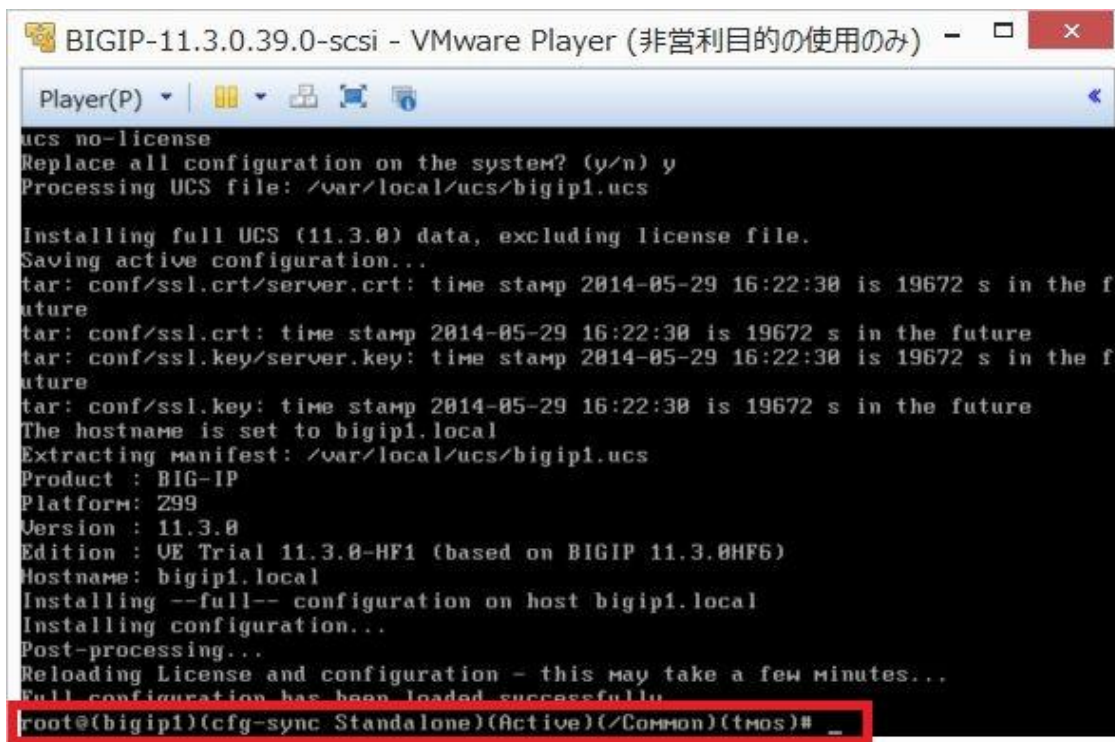
### ●UCS ファイルのリストア

- ① VMware Player のコンソール上で以下のコマンドを入力し、設定をリストアします。

```
tmsh
load /sys ucs bigip1.ucs no-license
y
```

コンソール上の表示が「root@(bigip1) (cfg-sync Standalone) (Active) (/Common) (tmsh)」になるまでのんびり待ってください。(4~5 分必要)





```
ucs no-license
Replace all configuration on the system? (y/n) y
Processing UCS file: /var/local/ucs/bigip1.ucs

Installing full UCS (11.3.0) data, excluding license file.
Saving active configuration...
tar: conf/ssl.crt/server.crt: time stamp 2014-05-29 16:22:30 is 19672 s in the future
tar: conf/ssl.crt: time stamp 2014-05-29 16:22:30 is 19672 s in the future
tar: conf/ssl.key/server.key: time stamp 2014-05-29 16:22:30 is 19672 s in the future
tar: conf/ssl.key: time stamp 2014-05-29 16:22:30 is 19672 s in the future
The hostname is set to bigip1.local
Extracting manifest: /var/local/ucs/bigip1.ucs
Product : BIG-IP
Platform: Z99
Version : 11.3.0
Edition : UE Trial 11.3.0-HF1 (based on BIGIP 11.3.0HF6)
Hostname: bigip1.local
Installing --full-- configuration on host bigip1.local
Installing configuration...
Post-processing...
Reloading License and configuration - this may take a few minutes...
Full configuration has been loaded successfully
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# _
```

② UCS ファイルをリストアすると、管理 IP アドレスなどの設定は「192.168.1.0/24」（著者の LAN 環境）に合わせた設定となります。今回のように管理 IP アドレスを「192.168.0.0/24」で設定している場合は、VMware Player のコンソール上で以下のコマンドを入力し、管理 IP アドレス等を設定し直します。

```
modify sys global-settings mgmt-dhcp disabled
create sys management-ip 192.168.0.245/24
modify sys httpd allow replace-all-with {192.168.0.0/24}
modify sys sshd allow replace-all-with {192.168.0.0/24}
save sys config base
quit
```

- ※ 「create sys management-ip 192.168.1.245/24」を入力して「already exists」のエラーが出た場合、そのまま「modify sys httpd...」へ進んでください。
- ※ IP アドレスやネットワークアドレスは環境に合わせて設定します。上記の手順は管理 IP アドレス「192.168.0.245/24」、管理ネットワーク「192.168.0.0/24」として設定しています。
- ※ キーの配置が違うため、「{」と「}」の配置が異なります。「{」は「@」、「}」は「[」を入力することで入力できます。

```
Player(P) | [Icons]
Hostname: bigip1.local
Installing --full-- configuration on host bigip1.local
Installing configuration...
Post-processing...
Reloading License and configuration - this may take a few minutes...
Full configuration has been loaded successfully.
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# list sys management-ip
sys management-ip 192.168.1.245/24 (
description configured-by-dhcp

root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# modify sys global-set
tings mgmt-dhcp disabled
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# create sys management
-ip 192.168.0.245/24
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# modify sys httpd allo
w replace-all-with {192.168.0.0/24}
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# modify sys sshd allow
replace-all-with {192.168.0.0/24}
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# save sys config base
Saving running configuration...
/config/bigip_base.conf
/config/bigip_user.conf
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# quit
[root@bigip1:Active] config # _
```

③ VMware Player のコンソール上で以下のコマンドを入力し、管理 IP アドレス等が設定されていることを確認します。

```
tmsh
list sys management-ip
list sys httpd allow
list sys sshd allow
quit
```

```
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# modify sys httpd allow
replace-all-with {192.168.0.0/24}
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# modify sys sshd allow
replace-all-with {192.168.0.0/24}
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# save sys config base
Saving running configuration...
/config/bigip_base.conf
/config/bigip_user.conf
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# quit
[root@bigip1:Active] config # tmsh
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# list sys management-ip
sys management-ip 192.168.0.245/24 {
    description configured-by-dhcp
}
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# list sys httpd allow
sys httpd {
    allow { 192.168.0.0/24 }
}
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# list sys sshd allow
sys sshd {
    allow { 192.168.0.0/24 }
}
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# quit
[root@bigip1:Active] config # -
```

④ ping <管理 IP アドレス>で Reply があるかを確認します。

```
C:\windows\system32\cmd.exe
C:\Users¥ >ping 192.168.0.245

192.168.0.245 に ping を送信しています 32 バイトのデータ:
192.168.0.245 からの応答: バイト数 =32 時間 <1ms TTL=64
192.168.0.245 からの応答: バイト数 =32 時間 <1ms TTL=64
192.168.0.245 からの応答: バイト数 =32 時間 <1ms TTL=64
192.168.0.245 からの応答: バイト数 =32 時間 <1ms TTL=64

192.168.0.245 の ping 統計:
    パケット数: 送信 = 4、受信 = 4、損失 = 0 (0% の損失)、
ラウンド トリップの概算時間 (ミリ秒):
    最小 = 0ms、最大 = 0ms、平均 = 0ms
C:\Users¥ >
```

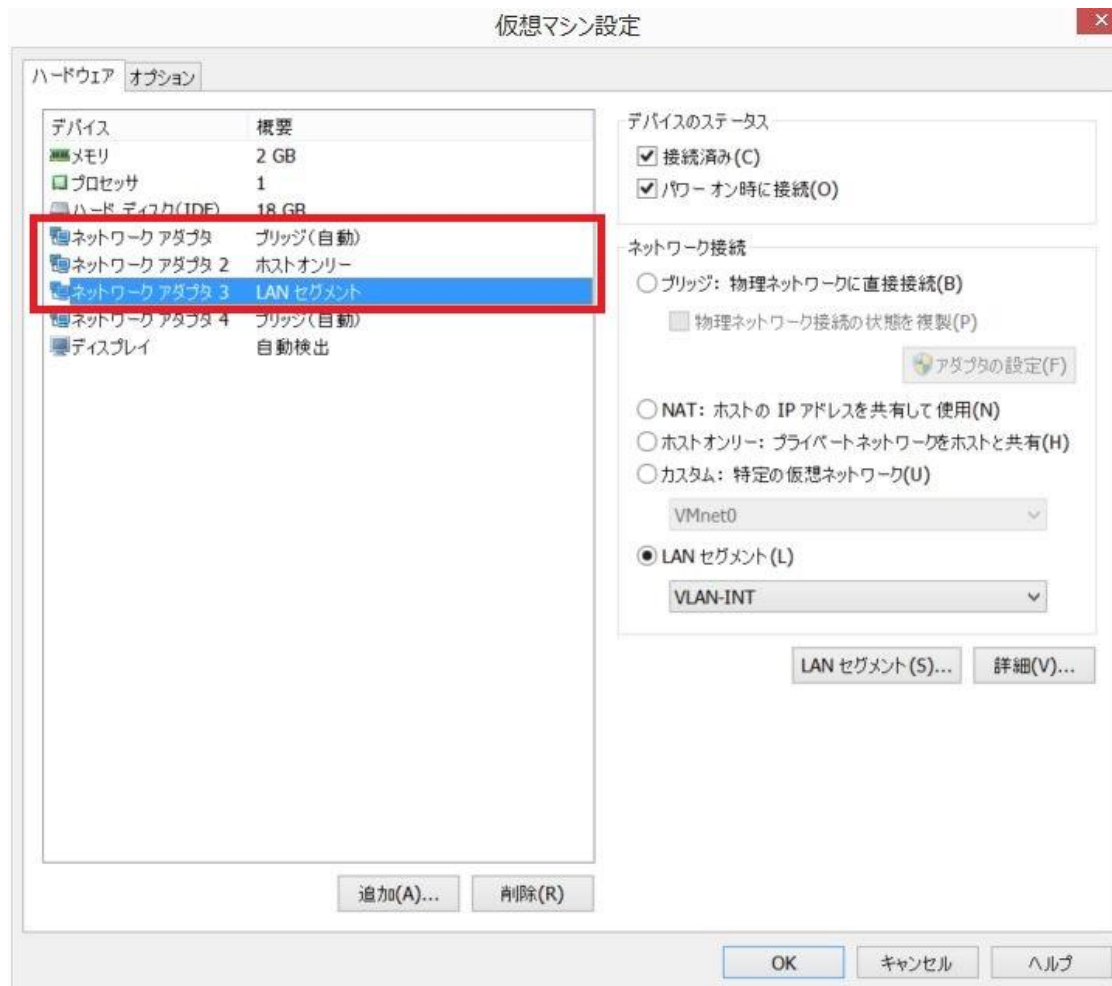
## 2.4.4 ネットワークの設定

### ●ネットワーク構成の変更

- ① VMware Player 画面で「Player」-「管理」-「仮想マシン設定」をクリックします。
- ② 各ネットワークアダプタを以下のように設定します。

ネットワークアダプタ: ブリッジ  
ネットワークアダプタ 2: ホストオンリー  
ネットワークアダプタ 3: LAN セグメント - VLAN-INT

---



### ●再起動

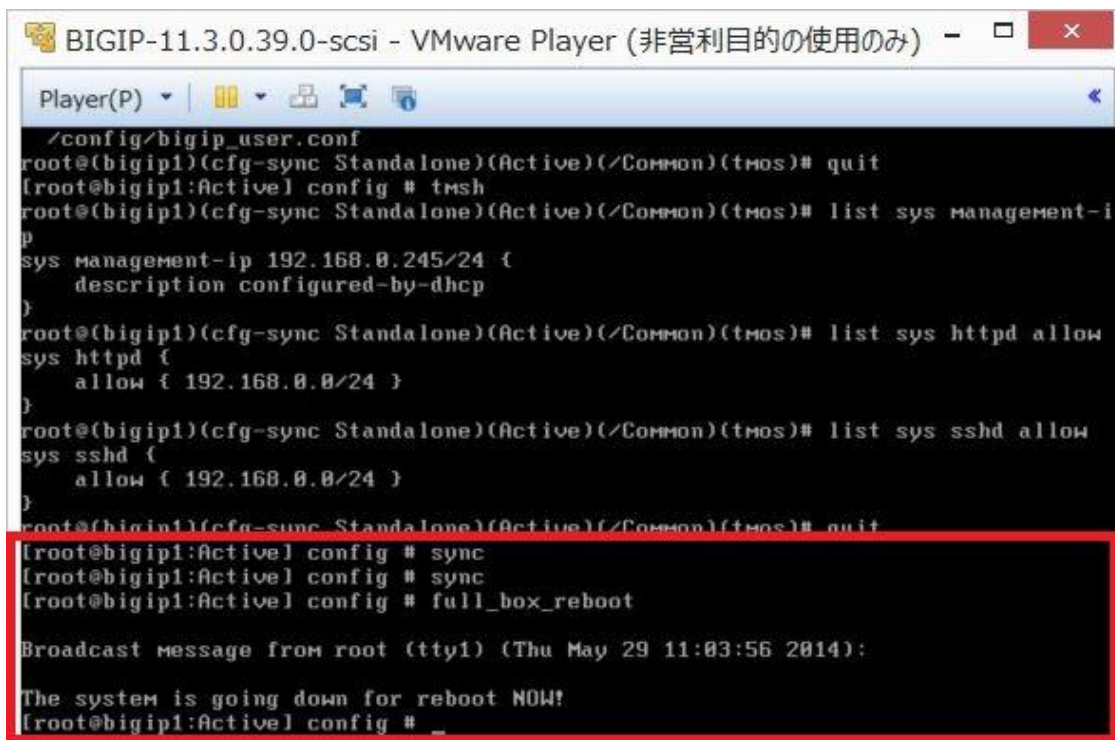
① VMware Player のコンソール上で以下のコマンドを入力し、再起動します。

---

```
sync  
sync  
full_box_reboot
```

---





```
/config/bigip_user.conf
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# quit
[root@bigip1:Active] config # tmsh
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# list sys management-ip
sys management-ip 192.168.0.245/24 {
    description configured-by-dhcp
}
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# list sys httpd allow
sys httpd {
    allow { 192.168.0.0/24 }
}
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# list sys sshd allow
sys sshd {
    allow { 192.168.0.0/24 }
}
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# quit
[root@bigip1:Active] config # sync
[root@bigip1:Active] config # sync
[root@bigip1:Active] config # full_box_reboot

Broadcast message from root (tty1) (Thu May 29 11:03:56 2014):

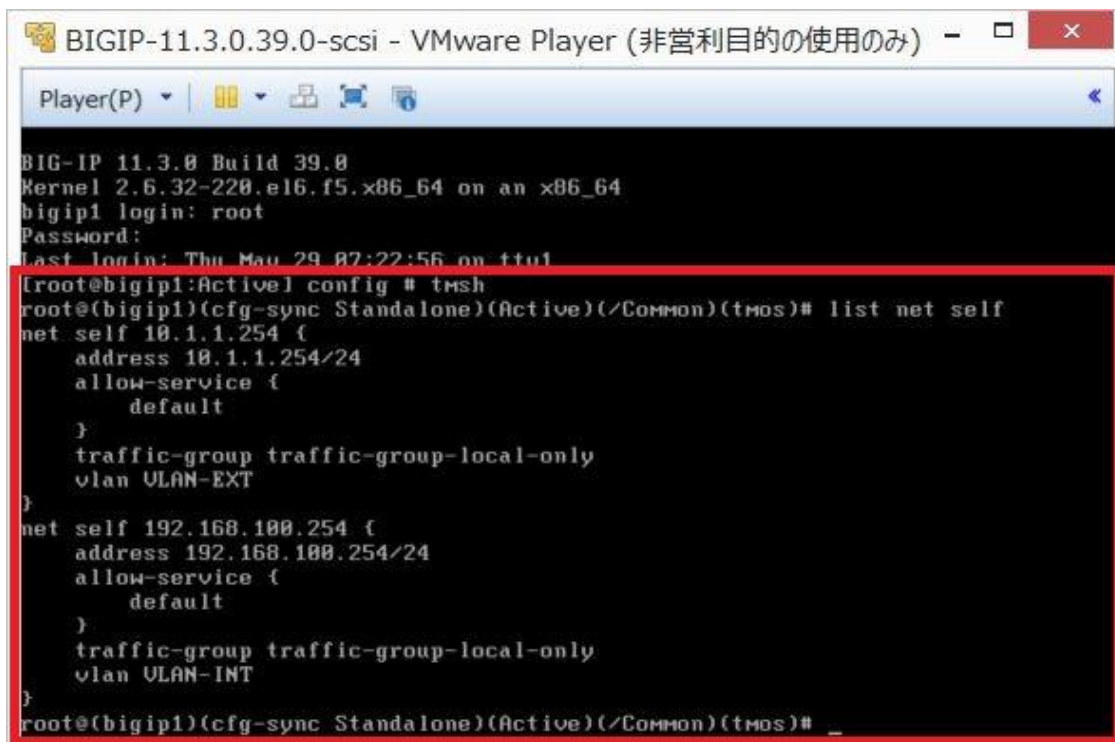
The system is going down for reboot NOW!
[root@bigip1:Active] config # _
```

- ② SSH で管理 IP アドレスに対してアクセスします。Username は「root」、Password は「default」でログインします。
- ③ VMware Player のコンソール上で以下のコマンドを入力し、設定がリストアされているか確認します。

---

```
tmsh
list net self
quit
```

---



```
BIG-IP 11.3.0 Build 39.0
Kernel 2.6.32-220.el6.i5.x86_64 on an x86_64
bigip1 login: root
Password:
Last login: Thu May 29 07:22:56 on ttu1
[root@bigip1:Active] config # tmsh
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# list net self
net self 10.1.1.254 {
    address 10.1.1.254/24
    allow-service {
        default
    }
    traffic-group traffic-group-local-only
    vlan VLAN-EXT
}
net self 192.168.100.254 {
    address 192.168.100.254/24
    allow-service {
        default
    }
    traffic-group traffic-group-local-only
    vlan VLAN-INT
}
root@(bigip1)(cfg-sync Standalone)(Active)(/Common)(tmsh)# _
```

- ④ 各 IP アドレスに Ping を実施し、リプライがあるか確認します。
- ⑤ 「http://10.1.1.1」にアクセスし、負荷分散動作を確認します。

以上