

InterSecVM/SG V4.2 for Hyper-V

セットアップ手順書

ごあいさつ

このたびは、InterSecVM/SG V4.2 for Hyper-V（以下、InterSecVM/SG）をお買い上げ頂き、まことにありがとうございます。

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1 はじめに

InterSecVM/SG for Hyper-Vは、Windowsで動作するHyper-V上で利用可能な、仮想アプリケーション製品です。

仮想アプリケーションとは、オペレーティングシステムと必要なアプリケーションが事前にインストールされた仮想マシンです。

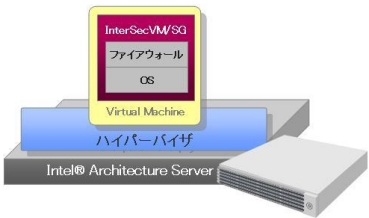
本書では、InterSecVM/SGのHyper-Vへのインポート手順と、初期導入について説明します。

1.1 システム構成

InterSecVM/SGのご利用には、Hyper-V環境をご用意ください。



Hyper-V管理ツールをインストールしているWindowsが動作するPCもしくはコンソール端末



Hyper-Vを運用しているWindowsサーバー
ESX Serverを運用しているサーバー

項目	説明
Hyper-V管理ツールをインストールしているWindowsが動作するPCもしくはコンソール端末	Hyper-V管理ツールを使って Hyper-Vを設定、管理します。次のような機能があります。 <ul style="list-style-type: none">・仮想マシンを操作するコンソール機能・Hyper-Vの管理ツールとしての機能 詳細は、Hyper-Vのマニュアル等を参照してください。
Hyper-Vを運用しているサーバー	Windowsサーバー上で、Hyper-Vを運用します。HW要件、機能につきましては、Hyper-Vのマニュアル等を参照してください。

1.2 動作環境

InterSecVM/SGが利用可能なHyper-Vのバージョンは以下のとおりです。
最新の情報は製品サイトを参照してください。

InterSecVM/SG for Hyper-V	Hyper-V	
バージョン	製品名	エディション
V4.2	Windows Server 2012 R2 Operating System	Standard
		Datacenter
	Windows Server 2016 Operating System	Standard
		Datacenter

InterSecVM/SGの仮想マシンファイルは以下の諸元に設定しています。

リソース名	必要量
CPU	仮想CPU 1～2個 推奨2個
メモリ	2GB(初期値)～4GB
ネットワークアダプター×8	接続されていません。 ※1
ディスク容量(初期値)	30GB

※1 仮想マシンのインポート後に仮想ネットワークとの接続設定が必要です。
出荷状態でのLANインタフェースは、以下の設定で起動します。

LANインタフェース	: eth0
IPアドレス	: 192.168.250.251
ネットワークマスク	: 255.255.255.0
ホスト名	: intersec.domain.local

インポートする際に、Hyper-V上に上記のメモリやディスク容量等が確保出来ない場合、InterSecVM/SGのインポートに失敗したり、本来の性能を利用することができないなどの問題が発生する場合がございます。

2 InterSecVM/SGのインポート

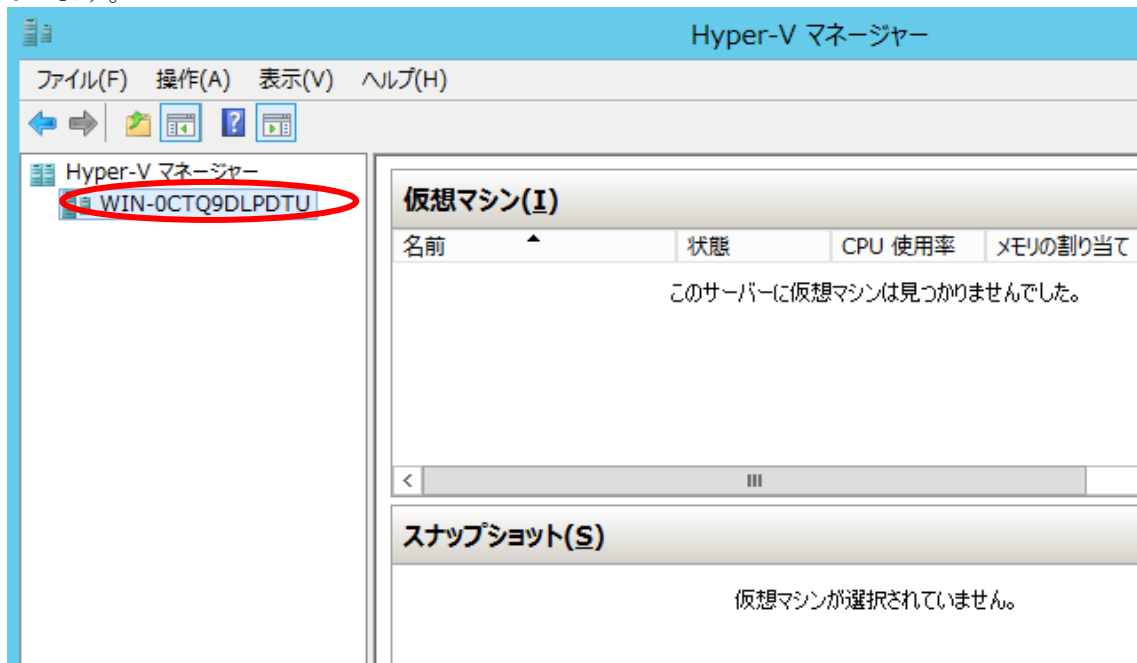
InterSecVM/SGに添付されている製品のディスクイメージ “intersecvm_sg_3.0” (Versionは異なりますが、InterSecVM/SGとしての操作は変わりません。)フォルダーを例にしております。

上記ディスクイメージをHyper-Vが動作しているサーバーのローカルディスクにコピーしてください。

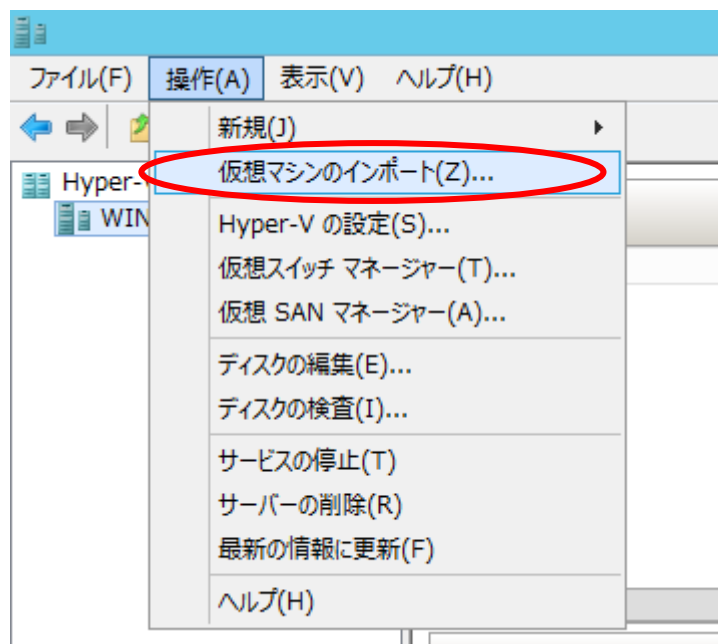
以降の手順では、“C:¥ intersecvm_sg_3.0” にコピーした前提で説明いたします。

- (1) Windows Server にログインし、スタート画面を開き [管理ツール] - [Hyper-V マネージャ] でアプリケーションを選択します。Hyper-V マネージャが起動したら、InterSecVM/SGをインポートするサーバーを選択してください。

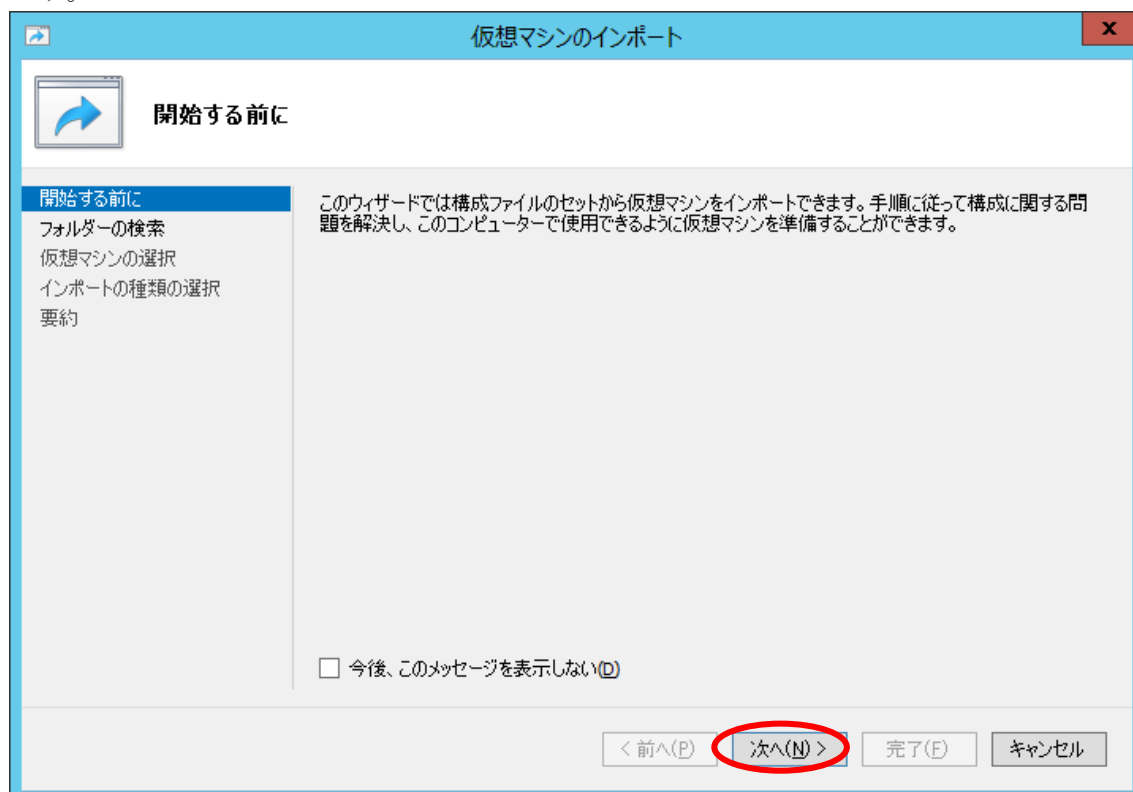
以下の画面では、サーバー名が “WIN-0CTQ9DLPDU” のHyper-V環境にインポートしています。



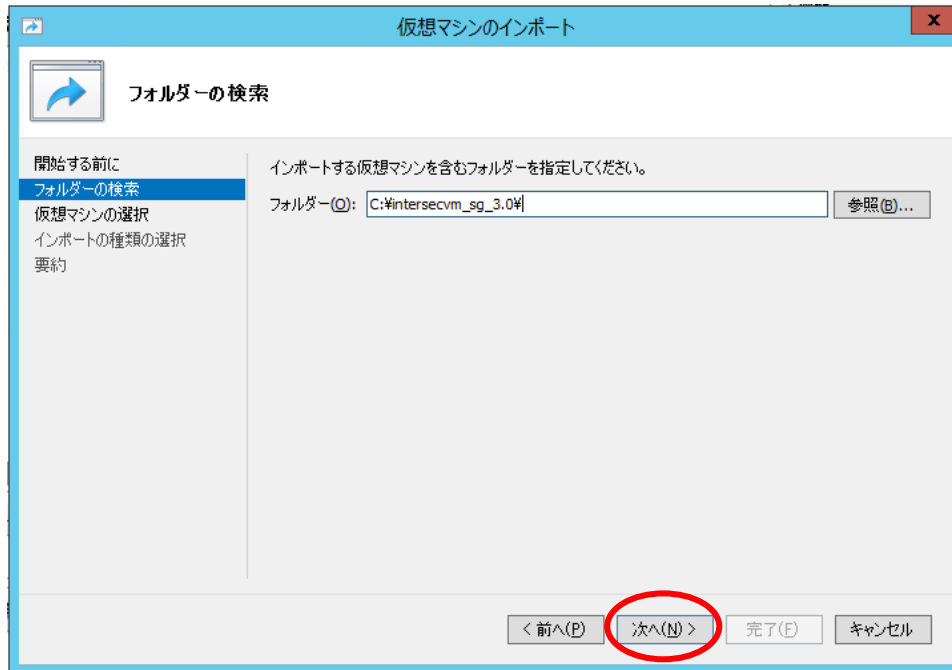
(2) [操作(A)]メニューの [仮想マシンのインポート(Z)...] をクリックします。



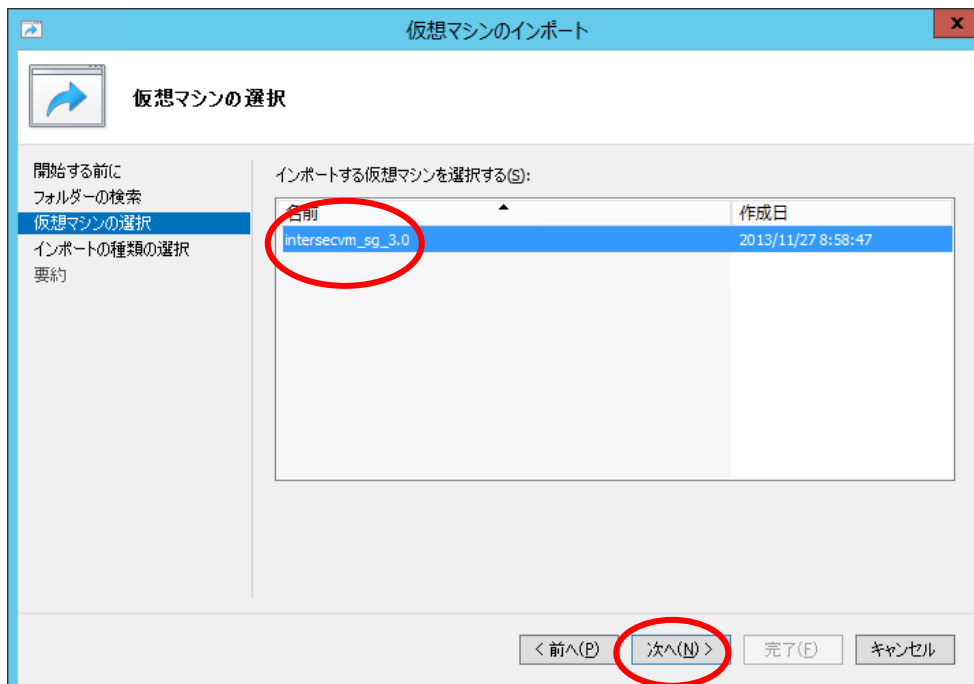
(3) 「仮想マシンのインポート」ダイアログが表示されます。[次へ(N) >] をクリックします。



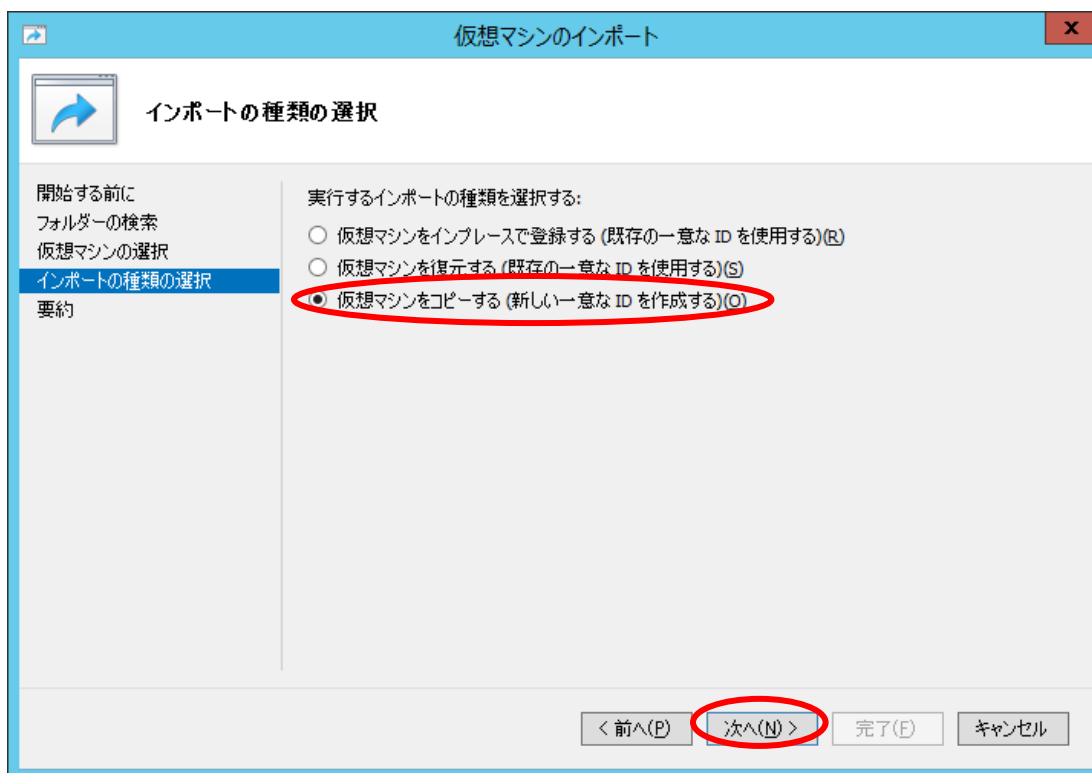
- (4) インポートする仮想マシンを含むフォルダーを指定します。[参照(B)]ボタンをクリックし、コピーしたInterSecVM/SGのインポートフォルダーを指定してください。指定後、[次へ(N) >]をクリックします。



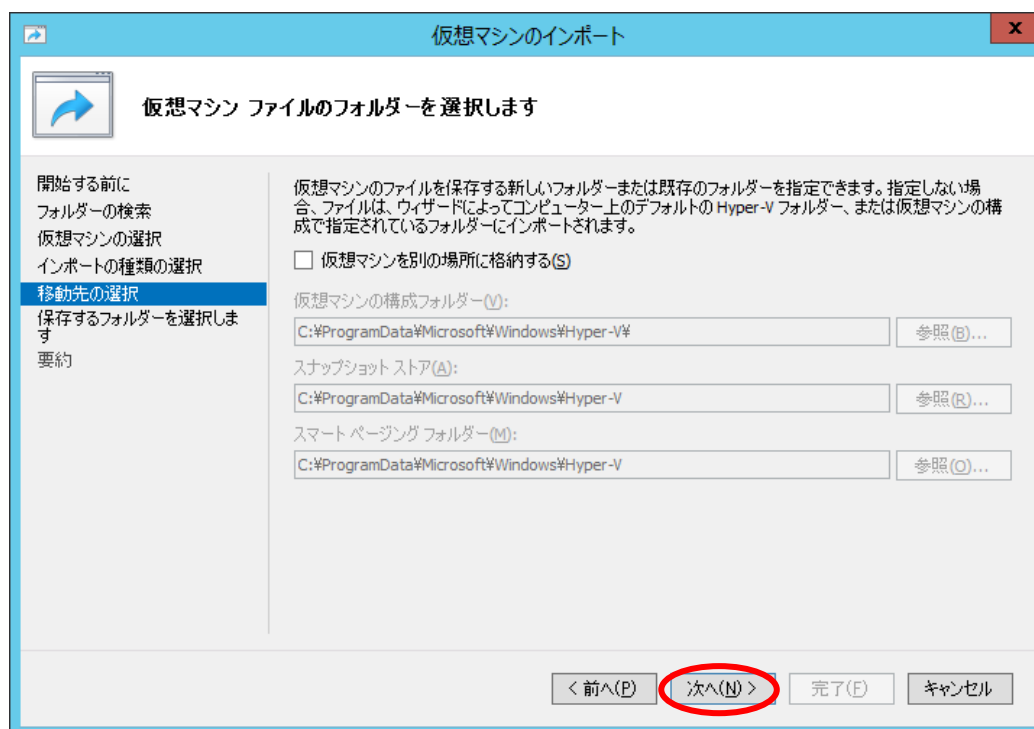
- (5) インポートする仮想マシンを指定します。「intersecvm_sg_3.0」を選択し、[次へ(N) >]をクリックします。



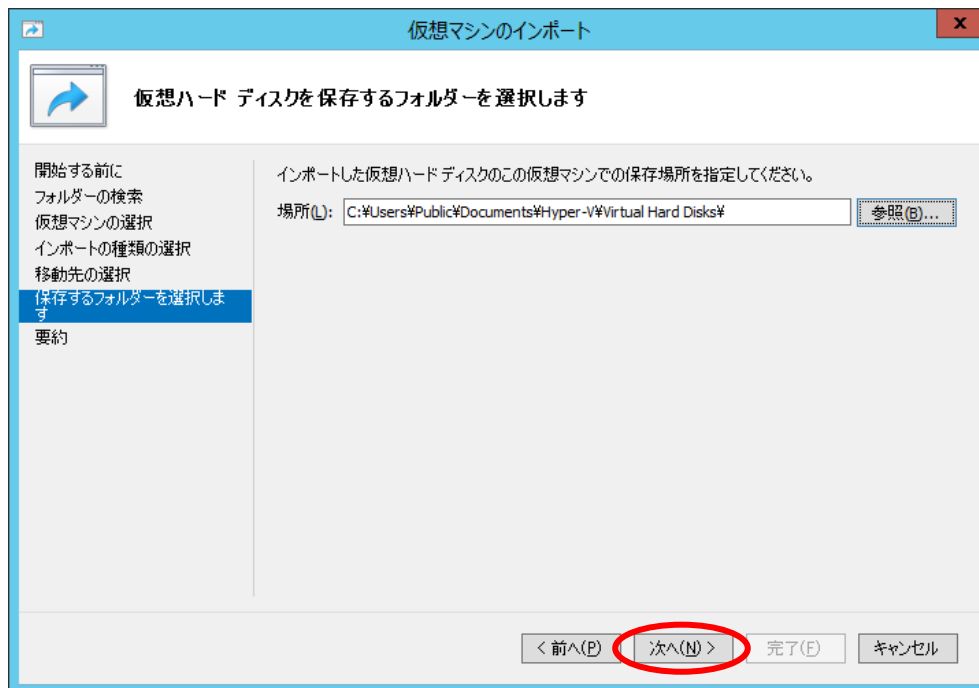
- (6) 実行するインポートの種類を選択します。「仮想マシンをコピーする(新しい一意な ID を作成する)(O)」を選択し、[次へ(N) >] をクリックします。



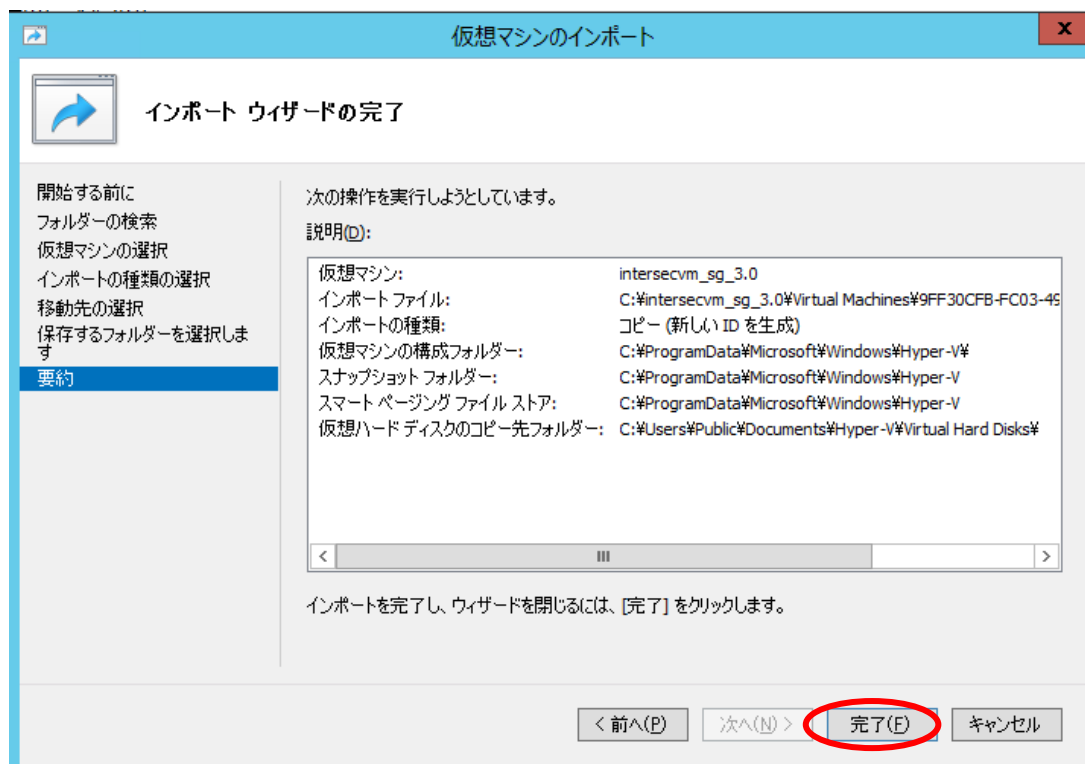
- (7) 仮想マシンファイルのフォルダーを選択します。特に変更の必要がない場合は、変更を行わず、[次へ(N) >] をクリックします。



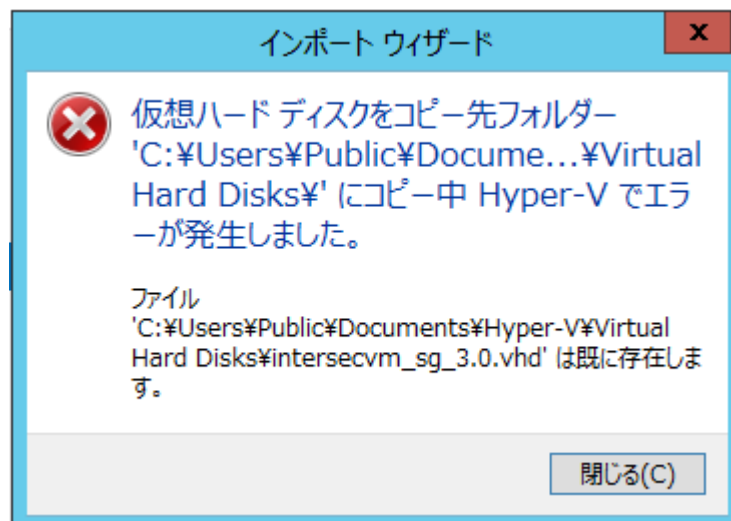
- (8) 仮想マシンのハードディスクを保存するフォルダーを指定します。特に変更の必要がない場合は、変更を行わず、[次へ(N) >]をクリックします。



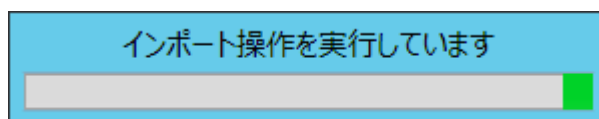
- (9) インポート指定内容が表示されます。インポートしようとしている内容に相違がないことを確認して、[完了(F)]をクリックします。



※「仮想ハードディスクのコピー先フォルダー」で指定したフォルダーにすでにインポートを行っていた場合、指定フォルダーに以下のエラーメッセージが表示されます。同じマシン上にInterSecVM/SGを複数台構築する場合は「仮想ハードディスクのコピー先フォルダー」を変更してください。

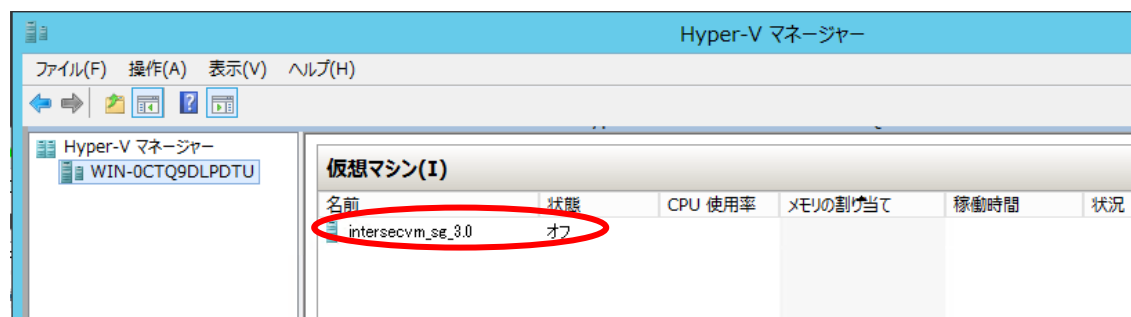


(10) インポートが開始されます。



(11) インポートの完了を確認します

Hyper-Vの仮想マシンとして、intersecvm_sg_3.0 が追加されていることを確認します。



※ インポート直後の仮想マシン名は、InterSecVM/SG V4.2 では “InterSecVM_SG_V4.2_forHyperV_*****” (*は数値)となっています。インポートした仮想マシンを選択し、[操作(A)] -[名前の変更(N)...]で仮想マシンの名前を変更することができます。

(12) 仮想ネットワークの設定情報について

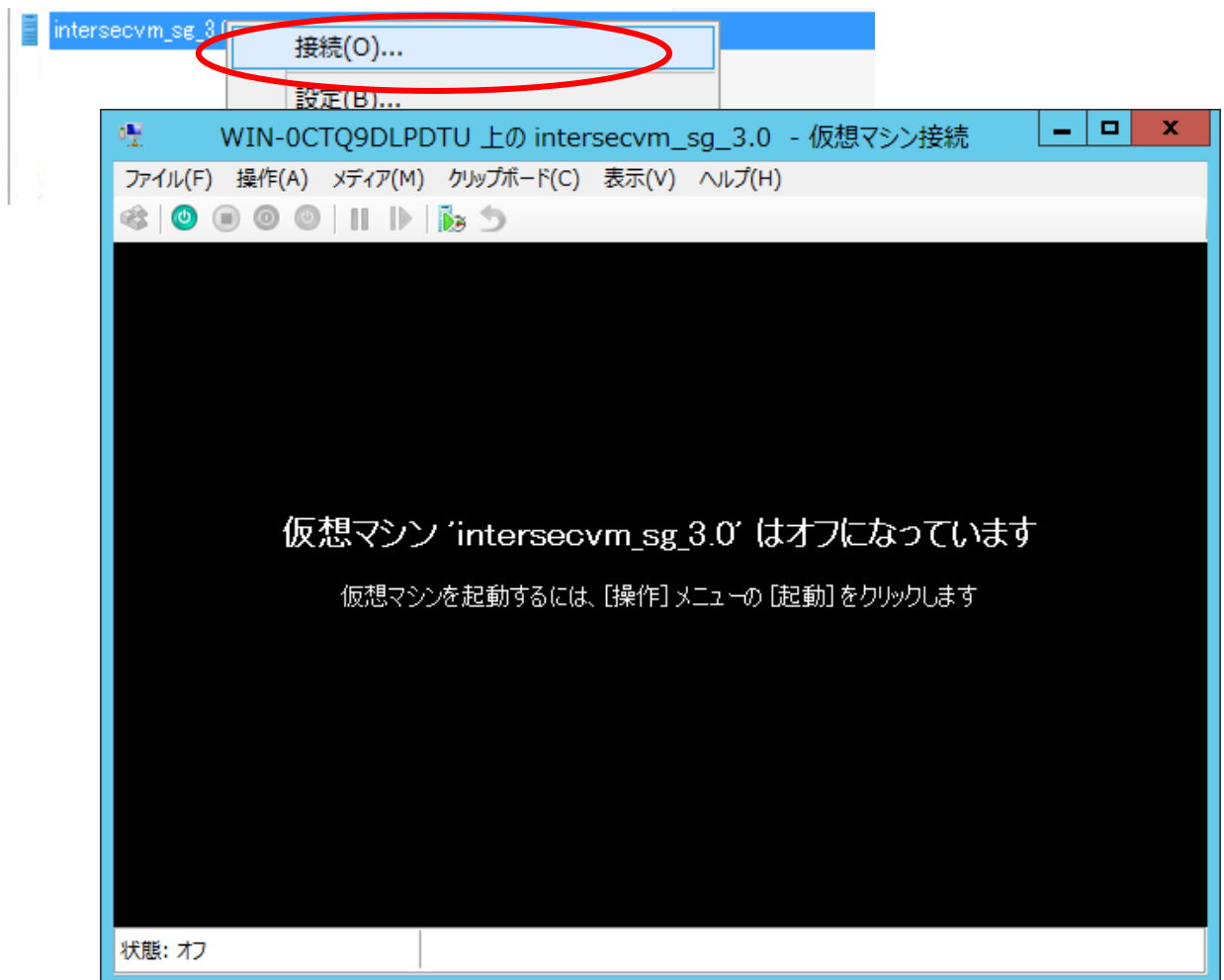
インポートしたInterSecVM/SGの初期状態のネットワーク設定は以下のとおりです。

LANポート	: eth0
IPアドレス	: 192.168.250.251
ネットワークマスク	: 255.255.255.0
ホスト名	: intersec.domain.local

※InterSecVM/SGの初期状態のネットワーク設定のアドレスと他機器のIPアドレスが重複していないか確認を行ってください。

(13) InterSecVM/SGの接続確認を行います。

インポートした仮想アプライアンス（仮想マシン）を右クリックし、[接続]をクリックします。「[Hyper-Vホスト名] 上の intersecvm_sg_3.0 - 仮想マシン接続」画面が表示されることを確認してください。



3 InterSecVM/SGのネットワーク設定

3.1. ネットワークの準備

Hyper-Vを実行しているサーバー（以下、仮想化サーバーと記載します）上に仮想ネットワークを作成し、仮想マシン用のネットワークを定義します。

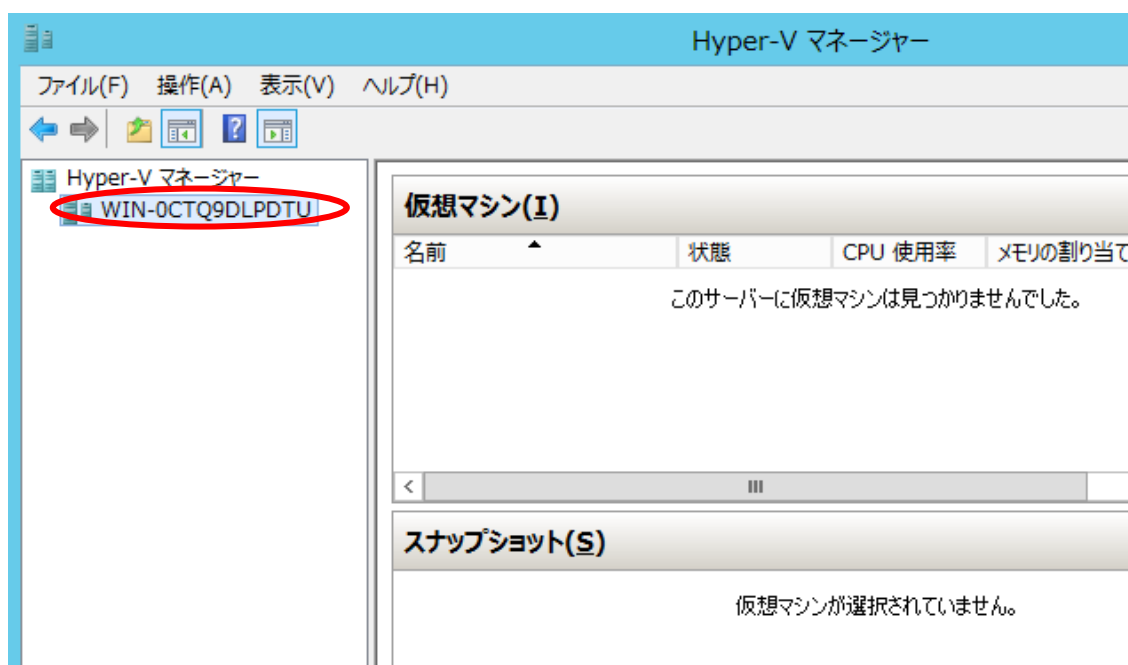
仮想ネットワークは、3種類あります。使用用途に応じてご選択ください。

名称	詳細
外部ネットワーク	仮想マシン(InterSecVM/SG)と物理ネットワークの通信が可能になります。
内部ネットワーク	仮想化サーバーと仮想マシン(InterSecVM/SG)間のみで通信が可能になります。
プライベートネットワーク	仮想マシン(InterSecVM/SG)間のみで通信が可能になります。

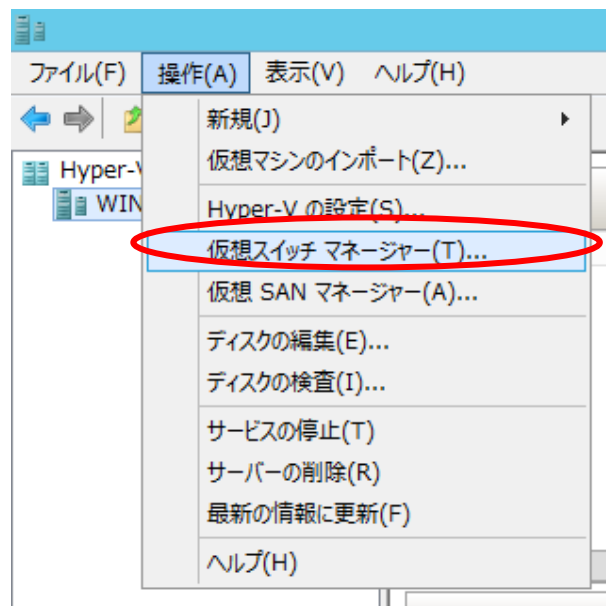
以下に、仮想ネットワークを構成する基本的な手順を説明します。仮想ネットワークの設定の詳細については、Windowsのマニュアルなどを参照ください。

- (1) Windows Serverにログインし、スタート画面を開き [管理ツール] - [Hyper-V マネージャ] でアプリケーションを選択します。Hyper-V マネージャが起動したら、仮想ネットワークを構成するサーバーを選択してください。

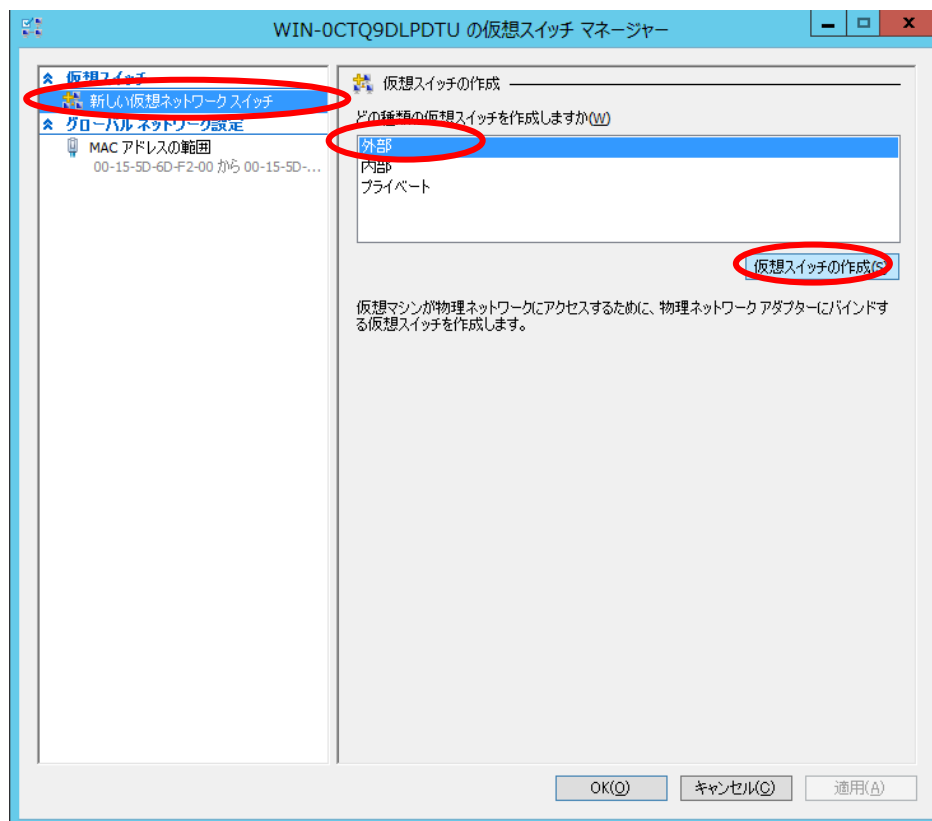
サーバー名が“WIN-0CTQ9DLPDTU”を例として仮想ネットワークを構成しています。



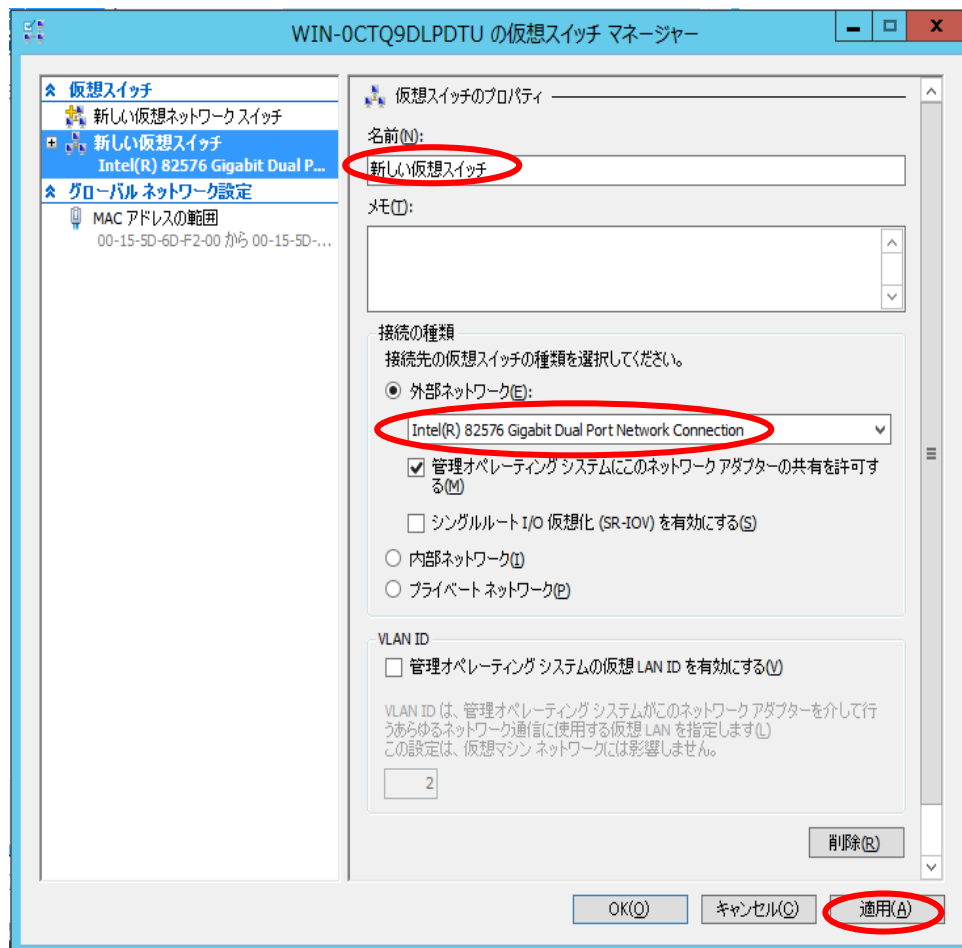
- (2) [操作(A)] メニューから操作します。
[操作(A)] メニューの [仮想スイッチマネージャー(T)...] をクリックします。



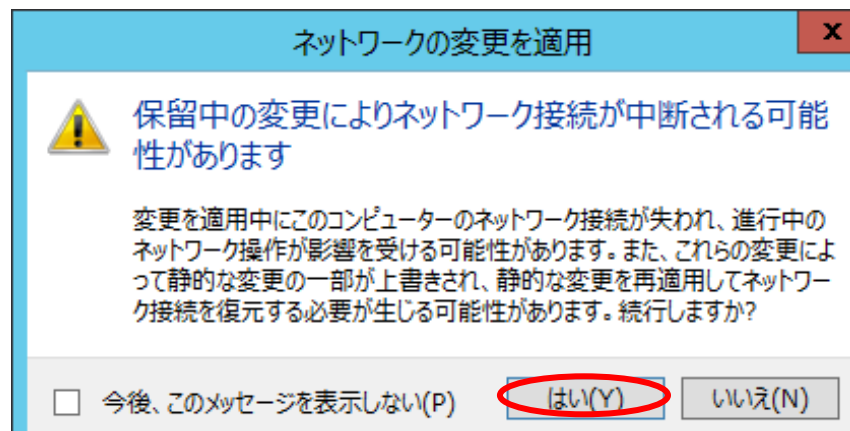
- (3) マネージャ画面が表示されます。
仮想スイッチ マネージャ画面が表示されます。「新しい仮想ネットワーク スイッチ」を選択し、ご使用になる仮想ネットワークの種類を選択して、[仮想スイッチの作成(S)] をクリックします。下記では、「外部」を選択しています。



「新しい仮想スイッチ」が表示されます。新しい仮想スイッチの名前や、「外部」の場合は使用する物理ネットワークアダプター、その他のプロパティを必要に応じて変更します。設定を変更した後、[適用(A)] をクリックします。



[適用(A)] をクリックして設定を実行すると、以下のようなメッセージが表示されることがあります。このメッセージでは、[はい(Y)] をクリックします。



(4) ネットワークが作成されます。

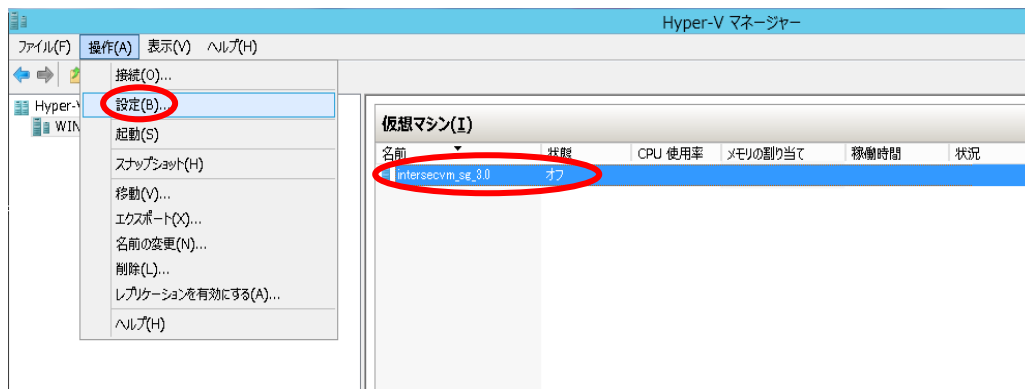
(5) 必要なネットワークの数だけ(1)～(4)の手順を繰り返してください。
作成完了後、[OK(O)] をクリックし、仮想スイッチマネージャーを終了します。

3.2. ネットワークの設定

InterSecVM/SG のインポート直後の状態では、仮想ネットワークアダプターは“接続されていません”の状態になっています。InterSecVM/SGをご利用になる前に、Hyper-V マネージャ画面からInterSecVM/SGの仮想ネットワークアダプターを使用可能な状態に変更してください。

※ InterSecVM/SGでは、2つのネットワークアダプターが使用可能な状態であることを前提としています。

(1) 変更対象となる仮想マシンを選択して、[操作(A)]メニューの [設定(B)...] をクリックします。

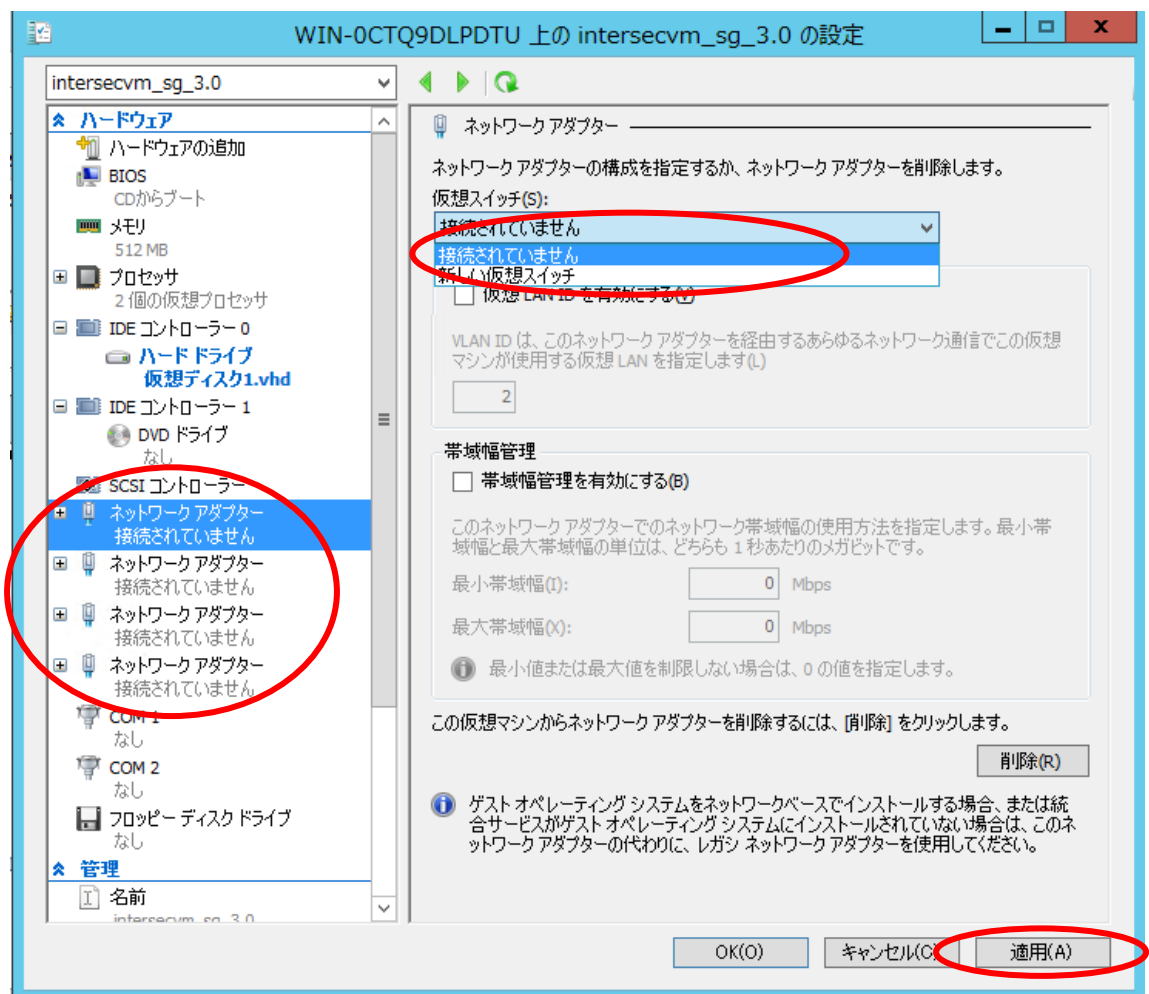


(2) 選択された仮想マシンのハードウェア構成が表示されます。

[ハードウェア]一覧から、変更対象となる [ネットワークアダプター]をクリックします。

ネットワークアダプターの[仮想スイッチ(S)]から使用するネットワークを選択して、[適用(A)]をクリックします。

上から 1 番目 (eth0) はお客様の内部ネットワークを、上から 2 番目(eth1)はお客様の外部ネットワークを設定ください。その他ネットワークアダプターも適宜設定ください。初期設定導入後に、ネットワークの変更があった場合は適宜、本設定の見直しが必要です。



※ 上記の例ではネットワークアダプターは4つですが、V4.2では8つ存在します。

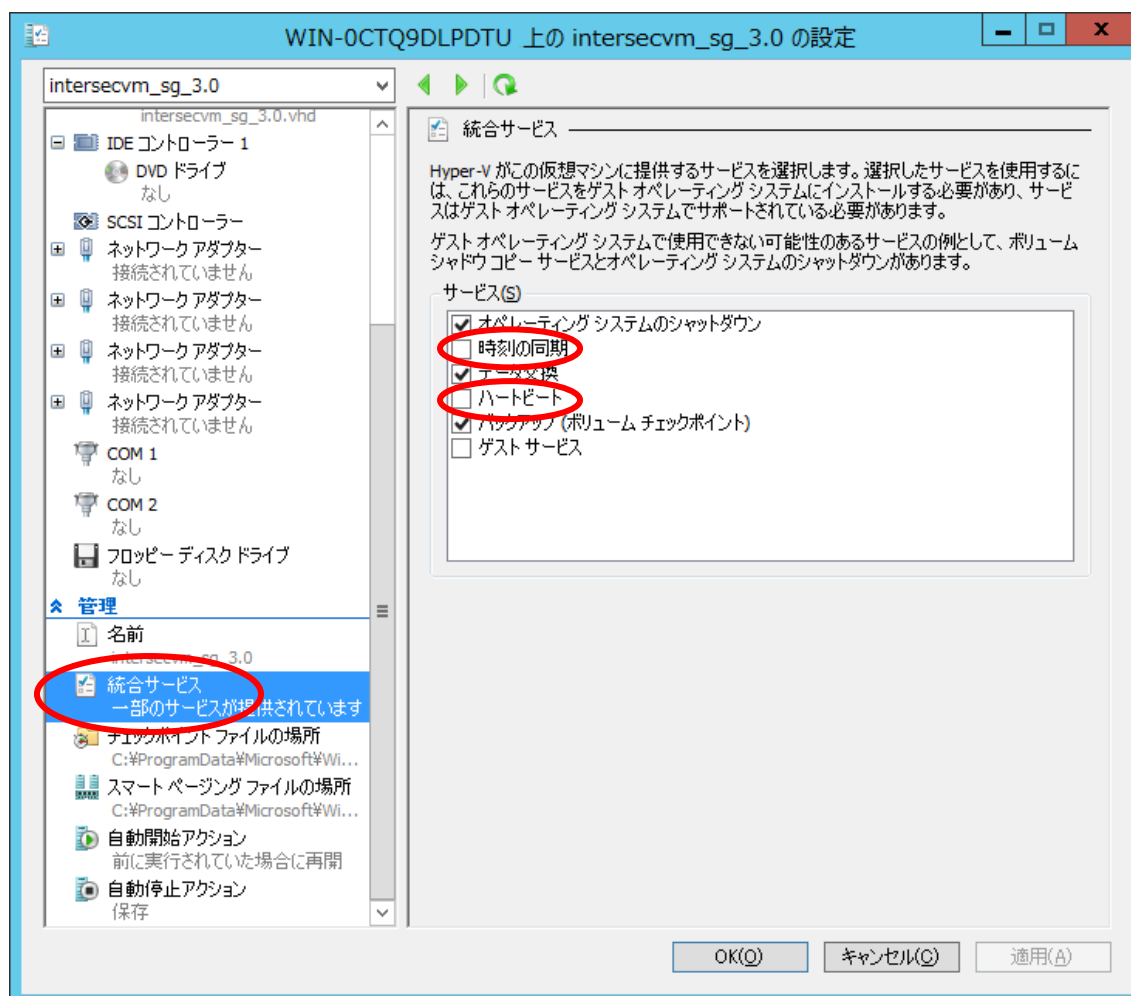
※ 上記手順で、[ハードウェア]一覧にあるネットワークアダプターについて、ご利用のHyper-Vでのネットワーク環境に合わせて適宜[仮想スイッチ(S)]を設定してください。この時、複数のネットワークアダプターについて同じ仮想ネットワークを設定することも可能です。

- ※ 【仮想VLAN IDを有効にする(V)】 をチェックした場合、同じVLAN IDを持つサーバーからのみとしか通信できなくなります。InterSecVM/SGが正しくご利用いただけない可能性もありますので、仮想VLAN IDのご利用の際は十分注意してください。

4 統合サービスの設定変更 (Windows Server 2012 R2のみ)

※Windows Server 2012 R2の場合、本設定は必ず行ってください。

- (1) 変更対象となる仮想マシンを選択して、[操作(A)]メニューの [設定(B)...] をクリックします。
- (2) 統合サービスを選択し、「時刻の同期」と「ハートビート」のチェックを無効にします。



5 InterSecVM/SGの初期導入事前準備

前章で Hyper-Vにインポートした InterSecVM/SG は、お客様のネットワーク環境に即した状態にするために、初期導入を行っていただく必要があります。

5.1. InterSecVM/SGの初期導入環境について

InterSecVM/SGの初期導入は、別途用意いただく管理用WindowsPC（以下、管理用PC）からWebブラウザを介して行います。

InterSecVM/SG のネットワーク設定は、出荷状態（Hyper-Vに追加した直後の状態）では以下の初期設定が行われています。

ネットワークラベル	: eth0
IPアドレス	: 192.168.250.251
ネットワークマスク	: 255.255.255.0
ホスト名	: intersec.domain.local

初期導入を行うため、InterSecVM/SGと同じネットワークのIPアドレス（たとえば、192.168.250.1/255.255.255.0）を設定したWeb接続可能なクライアントPCを用意してください。

※ハブを介して接続する場合は、InterSecVM/SGの上記のアドレスと他機器のIPアドレスが重複しないようご注意ください。

※複数のInterSecVM/SGを導入する場合は、初期起動時のIPアドレス（192.168.250.251）が重複しないよう、1つずつ仮想ホストをインポートしてください。その後、初期導入でIPアドレスの変更を行ってください。初期導入前にIPアドレスの変更が必要でしたら、下記の手順にて、InterSecVM/SGのIPアドレスの変更を行うことも可能です。

- ① コンソールを開く。
- ② rootでログインを行う。
- ③ 右記のコマンドを入力する intersec-init-c
- ④ 画面に従い必要な情報を入力する。

Management Consoleへ接続する際、ご使用になるWebブラウザは、Internet Explorer（日本語版・Windows版）のバージョン11以上が必要です。

Internet Explorerで下記の設定を行ってください。

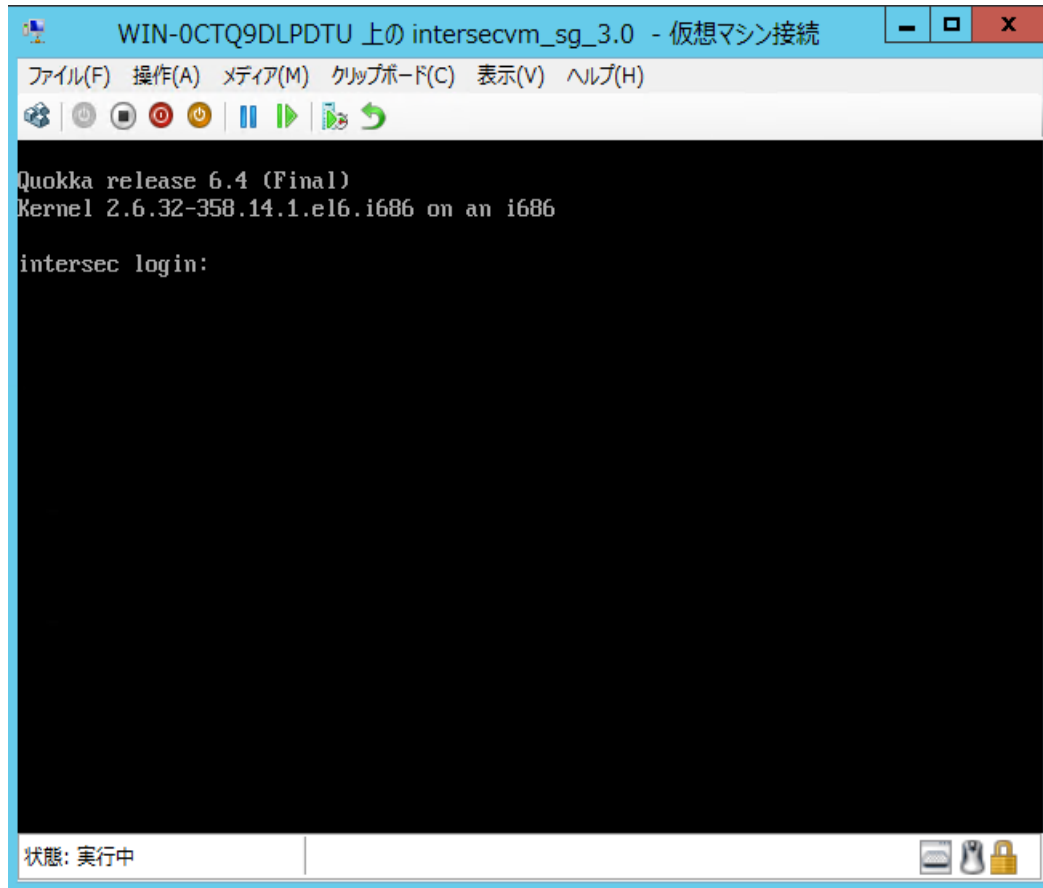
- ①[ツール]→[インターネットオプション]で以下のように設定してください。
 - ・[セキュリティ]→[インターネット]を選択し[レベルのカスタマイズ]を押します。
 - [スクリプト]→[アクティブ スクリプト]→「有効にする」を選択します。
 - [その他]→[ページの自動読み込み]→「有効にする」を選択します。
 - ・[詳細設定]→[セキュリティ]→「暗号化されたページをディスクに保存しない」のチェックを外します。
 - ・[プライバシー]→ポップアップブロックの[設定]を「中」以下にします。

② [ツール]→[互換表示設定]にて、InterSecVM/SGが互換性表示の対象とならないように以下のように設定してください。

- “互換表示に追加したwebサイト”にInterSecVM/SGのIPアドレスを含めないようにします。
- “イントラネット サイトを互換性表示で表示する”をチェックしており、InterSecVM/SGがイントラネット サイトに含まれる場合は、InterSecVM/SGに接続時は本チェックを無効にします。

5.2. InterSecVM/SGの起動

Hyper-Vマネージャ画面から 初期設定を行う InterSecVM/SGを右クリックし表示されたポップアップメニュー[起動]をクリックします。 その後、[接続]をクリックします。 起動すると「intersecvm_sg_3.0 - 仮想マシン接続」画面が表示されます。

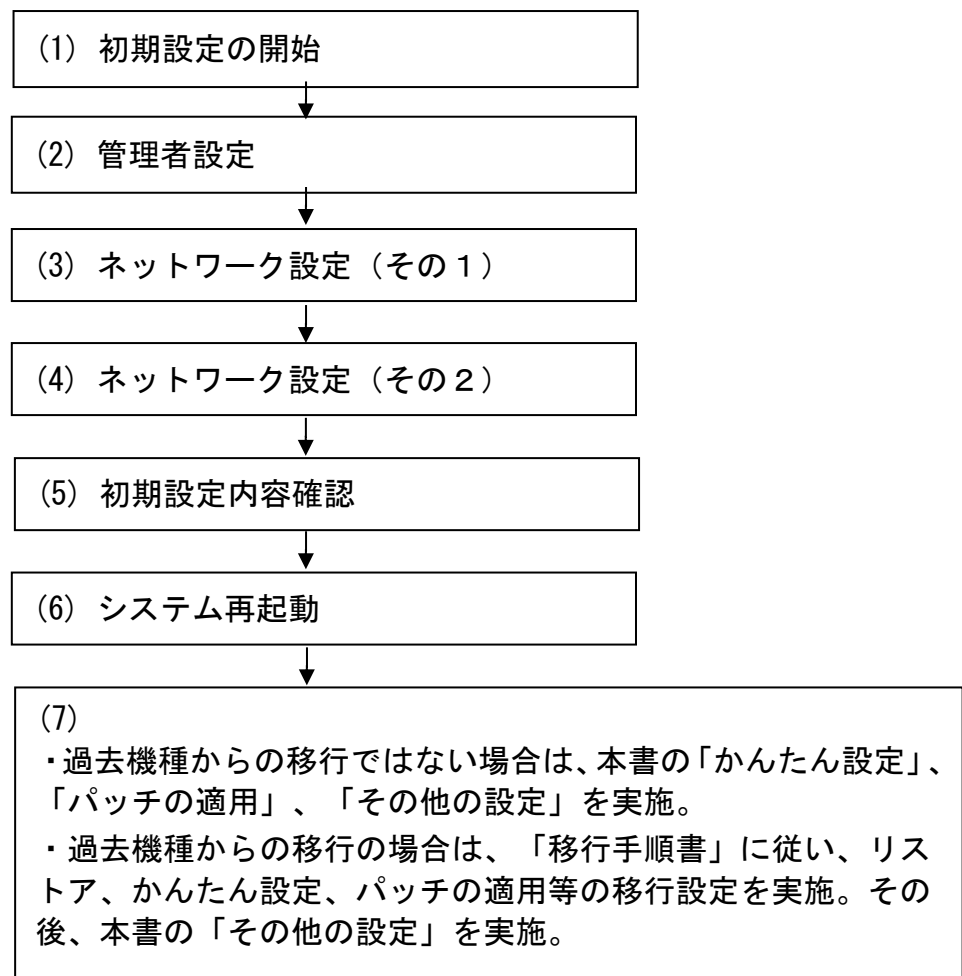


InterSecVM/SGの初期導入の具体的な手順は、次章を参照してください。

6 InterSecVM/SGの初期導入手順

6.1. 初期導入の流れ

InterSecVM/SGの初期導入の流れは以下のとおりです。運用するネットワーク環境に合わせて初期設定を行ってください。



6.2. 初期導入の実行

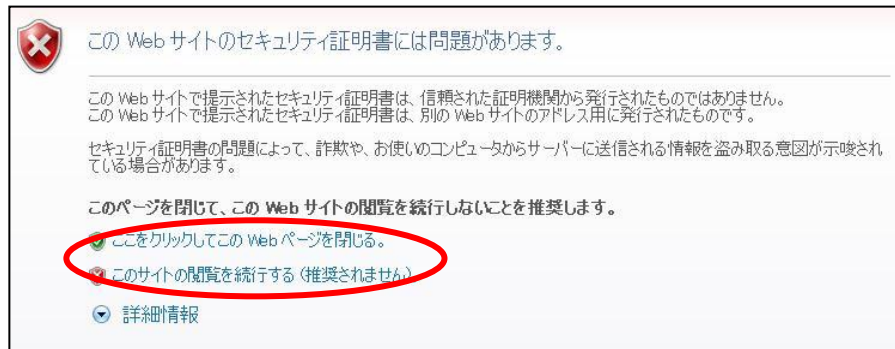
InterSecVM/SGの初期導入実行に際し、別途ご用意いただいた管理用PCのWebブラウザから InterSecVM/SG への接続、およびログインを行ってください。

■ InterSecVM/SG 初期導入画面への接続

InterSecVM/SG の初期導入画面には、管理用PCのWebブラウザで以下のURLを指定して接続してください。

<https://192.168.250.251:18000/>

セキュリティの警告が表示されますが、[このサイトの閲覧を続行する]を選択します。なお、IEのバージョンによって表示される画面は異なりますので下記は一例となります。



接続できない場合、管理用PC側から、ping コマンドなどを使用して通信状態を確認してください。

[実行例] C:¥> ping 192.168.250.251

InterSecVM/SG と通信できない場合は、設定されているネットワークと接続できるよう、管理用PCやHyper-Vのネットワーク設定を確認してください。

■ InterSecVM/SG 初期導入画面へのログイン

InterSecVM/SGの初期導入画面に接続すると、ユーザー名とパスワードの入力ダイアログが表示されます。

初期導入画面へのログインユーザー名は「root」です。パスワードは製品添付の管理者用パスワード.pdfを参照ください。

※ユーザー名、パスワードは、大文字小文字を区別します。

(1) 初期設定の開始

ログインが成功すると以下の画面が表示されます。[Start] をクリックし、初期導入を実施します。



初期設定/initial settings

システムの初期設定をおこないます。

[Start]ボタンをクリックすると、初期設定を開始します。
[Stop]ボタンをクリックすると、初期設定を中止しシステムをシャットダウンします。

Stop Start

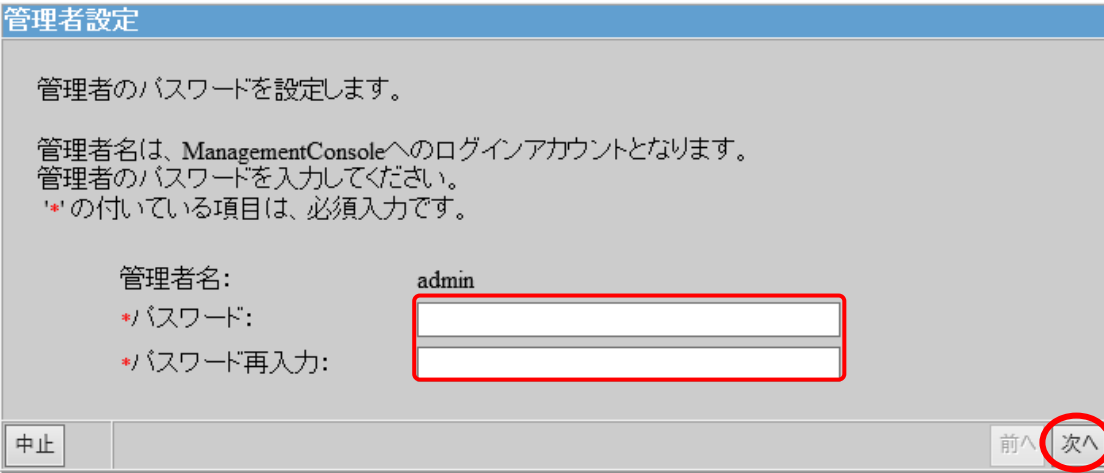
※初期設定を中断したい場合は、各設定画面の[中止] をクリックします。

(2) 管理者設定

管理者のパスワードの設定を行います。

システム管理者のアカウントは “admin” （固定）です。

システム管理者用のパスワードを「パスワード」「パスワード再入力」に入力して[次へ] をクリックします。 システム管理者名のパスワードの指定は必須です。



管理者設定

管理者のパスワードを設定します。

管理者名は、ManagementConsoleへのログインアカウントとなります。
管理者のパスワードを入力してください。
*の付いている項目は、必須入力です。

管理者名: admin

*パスワード:

*パスワード再入力:

中止 前へ 次へ

※システム管理者のアカウントは、初期導入完了後Management Console画面で変更できます。

(3) ネットワーク設定 (その1)

お客様の内部ネットワークに合わせたネットワーク情報の設定を行います。

「ホスト名(FQDN)」にはセカンドレベル以上のドメイン名を含むホスト名を入力してください。

「ホスト名(FQDN)」、「eth0 IPアドレス」、「eth0 ネットマスク」、「デフォルトゲートウェイ」、「プライマリネームサーバ」、「セカンダリネームサーバ」に設定内容を入力し、[次へ] をクリックします。

※項目名の先頭に「*」があるものは必須入力です

項目名	設定内容
* ホスト名(FQDN)	FQDNを設定します
* eth0 IPアドレス	eth0のIPアドレスを設定します。内部インタフェースのIPアドレスとなります。
* eth0 ネットマスク	ネットワークマスクを設定します
* デフォルトゲートウェイ	デフォルトゲートウェイを設定します
プライマリネームサーバ	プライマリネームサーバを設定します
セカンダリネームサーバ	セカンダリネームサーバを設定します

ネットワーク設定(その1)

システムのネットワーク基本情報を設定します。

eth0のネットワーク、デフォルトゲートウェイ、名前解決(DNS)サーバの設定をおこないます。
*の付いている項目は、必須入力です。

*ホスト名(FQDN):

*eth0 IPアドレス:

*eth0 ネットマスク:

*デフォルトゲートウェイ:

プライマリネームサーバ:

セカンダリネームサーバ:

☐ 255.255.255.128
☒ 255.255.255.0
☐ 255.255.128.0
☐ 255.255.0.0
☐ 255.128.0.0
☐ 255.0.0.0
☐

中止

前へ次へ

(4)ネットワーク設定 (その2)

お客様の外部ネットワークに合わせたネットワーク情報の設定を行います。

「eth1 IPアドレス」、「eth1 ネットマスク」に設定内容を入力してください。

「管理者メールアドレス」、「操作可能ホスト」は、運用上の設定です。

設定内容を入力し、[次へ] をクリックします。

※ 項目名の先頭に「*」があるものは必須入力です

※ 「操作可能ホスト」は、初期導入完了後、Management Console画面の[リモートメンテナンス]より追加することも可能です。

※ 外部ネットワークに属するInterSecVM/SGのインタフェース(外部インタフェース)は、初期設定時はeth1固定となります。初期設定後、かんたん設定において外部ネットワークを変更することで他のインタフェースを外部インタフェースとすることも可能です。

項目名	設定内容
* eth1 IPアドレス	eth1のIPアドレスを設定します。外部インタフェースのIPアドレスとなります。
* eth1 ネットマスク	ネットワークマスクを設定します
* 管理者メールアドレス	管理者メールアドレスを設定します
* 操作可能ホスト	運用時にManagement Consoleに接続する管理用PCのIPアドレスを設定します

ネットワーク設定(その2)

システムのネットワーク基本情報を設定します。

eth1のネットワーク、管理の設定をおこないます。
*の付いている項目は、必須入力です。

*eth1 IPアドレス:

*eth1 ネットマスク:

*管理者メールアドレス:

*操作可能ホスト:

☐ 255.255.255.128

☒ 255.255.255.0

☐ 255.255.128.0

☐ 255.255.0.0

☐ 255.128.0.0

☐ 255.0.0.0

☐

root@localhost

中止

前へ | 次へ

(5) 初期設定内容確認

入力した設定内容を確認してください。

設定内容に間違いがなければ、[次へ] をクリックしてください。

間違いがある場合は、[前へ] をクリックして変更対象画面に戻り修正してください。

初期設定内容確認

初期設定の内容を確認してください。

以下の設定でよろしければ、[次へ] ボタンをクリックしてください。設定をおこないます。
[中止] ボタンをクリックすると、初期設定を中止しシステムをシャットダウンします。

<管理者設定>

管理者名:admin

パスワード:*

<ネットワーク設定(その1)>

ホスト名(FQDN):2012r2-176-7524.sg

eth0 IPアドレス:192.168.10.176

eth0 ネットマスク:255.255.255.0

デフォルトゲートウェイ:192.168.10.63

プライマリネームサーバ:未設定

セカンダリネームサーバ:未設定

<ネットワーク設定(その2)>

eth1 IPアドレス:192.168.1.176

eth1 ネットマスク:255.255.255.0

管理者メールアドレス:root@localhost

操作可能ホスト:10.8.182.215

中止

前へ次へ

(6) システム再起動

設定を有効にしてシステムを運用可能な状態にするため、システムを再起動します。

[システムを再起動する] をクリックしてください。[システムを停止する] をクリックした場合、システムは停止状態となります。

システム再起動

初期設定を完了しました。
設定を有効にするために、システムを再起動してください。システム再起動後、必ずかんたん設定を実施してください。

システムを停止する

システムを再起動する

以上で、初期導入は終了です。

7 かんたん設定の実施

※本章は、過去機種からの移行ではない場合に実施ください。過去機種からの移行の場合は、「移行手順書」をご参照ください。

下記の操作を行いましたら、**Management Console**の「ファイアウォール>かんたん設定」を実施ください。かんたん設定の内容に変更がない場合は、「次へ」ボタンを選択して、進めてください。

- ・初期設定。ただしリストアを行う場合は「システム基本情報のリストア」後にのみ実施。
- ・システム基本情報のリストア
- ・基本設定の再起動必須項目を変更しInterSecVM/SGを再起動

8 パッチの適用

※本章は、過去機種からの移行ではない場合に実施ください。過去機種からの移行の場合は、「移行手順書」をご参照ください。

下記のホームページを参照しパッチを適用ください。

<https://www.support.nec.co.jp/View.aspx?NoClear=on&id=3140106559>
【InterSecVM/SG】リリースパッチ一覧 v4.2

パッチ適用の前に、正式なサポートライセンスの登録が必要となります。
ライセンスは、**Management Console**画面の[ファイアウォール > ライセンス確認/登録]画面よりご登録ください。詳細は、ヘルプの[ファイアウォール機能の設定方法 > ライセンスの確認と登録]を参照ください。

9 その他の設定

9.1. ファイアウォールやその他サービスの設定について

ファイアウォール機能やその他サービスの設定については、InterSecVM/SGのManagementConsoleのヘルプをご参照ください。

9.2. ftp複数ポートの設定方法

本節では、InterSecVM/SGに登録するファイアウォールルールに指定するftp通信において、ftpサーバーの制御ポートがデフォルトの21ではないときの設定手順を説明しています。

例として、以下の制御ポートを設定するときの手順を示します。

ftpサーバーの制御ポート番号
21
10021
20021

- (1)[ファイアウォール > 詳細設定 > ルール設定(サービス)]画面で、以下のユーザ定義サービスを追加してください。

名前) FTP

メンバ) tcp/21, tcp/10021, tcp/20021

- (2)システム再起動をすることにより設定が反映されます。

9.3. メモリの追加

InterSecVM/SG のご利用内容（起動するサービス）によっては、初期状態のメモリ容量（2GB）では不足する場合があります。必要に応じて最大4GBまでメモリ容量を変更することができます。仮想マシンのメモリの変更方法はHyper-Vのマニュアル等を参照してください。

※メモリ容量の変更は、InterSecVM/SG をシャットダウンしてから行ってください。

10 注意事項

1. 仮想マシンのメモリ設定は、必ず“静的”の指定を行ってください。動的を指定した場合、InterSecVM/SG が起動できません。
2. 1台の PC で複数の Management Console を同時に開かないでください。
3. 同一アカウントを使用した同時複数ログインは、サポートしておりません。
4. InterSecVM/SG をインポート後、マニュアルに記載されていない Hyper-V の設定を行われた場合はサポート対象外となります。
例) Hyper-Vの統合サービスの時刻同期を使用するように変更した場合等

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cutable

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.

Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```


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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The exe

cutable is

therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for

the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and

small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

```
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.
```

```
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
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```

```
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License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
```

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

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■ 謝辞

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