

Requirements

Requirement	Minimum	Optimum
Processor	Intel Core 2 @ 2GHz	Dual Processor Xeon 3.0 GHz
Memory	2 GB RAM	8 GB RAM
Disk Space	2 GB	5GB
Monitor Resolution	1024x768 resolution	1280x1024 resolution or higher
Operating System	Windows 2008 Server R2	Windows 2008 Server R2
Web Administration	Internet Explorer 8 Firefox 10 ESR	Internet Explorer 8 Firefox 10 ESR

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Requirements Continued

Requirement	Minimum	Optimum
	Install the following componer Start Menu =>Administration Tools => N	n ts from: Manage Server =>Add Server Roles
Operating System Component	 IIS 7.5¹ Network COM+ Access 	 IIS 7.5¹ Network COM+ Access
.NET Framework	.NET Framework 4.0	.NET Framework 4.5 (required for certificate enrollment with VeriSign) Director 8.0.1 required

¹IIS 6 compatibility mode is required if you are provisioning to IIS 7 or IIS 7.5

Database Requirements

Requirement	
Database Version	 Microsoft SQL Server 2008 and 2012 Oracle 10g R2 or Oracle 11g R2
Oracle Client	 Oracle 11g Database Client with Oracle Data Access Components (ODAC) version 11.1.0.6.20 Note: For the Oracle 11g R2 client, you must install Patch 5 or higher (patch set 9966926)
Database size	25 GB*

*Database size requirements very greatly depending upon a number of different factors Including log retention policy, number of certificates, number of Director servers, and licensing levels.

Database Access

- For MSSQL, SQL Authentication and Windows Authentication are both supported
 - A dedicated account for Venafi Director SQL access is recommended
 - db_datareader and db_datawriter are the required permissions for Director to function properly after installation
- For Oracle, the database scripts provided with Director will create the database user account

Database Setup

- Enable TCP/IP Protocol for SQL Services (disabled by default but required)
- 2. Configure MS SQL for SQL Authentication (if desired)
- 3. Create Director Database
- 4. Create SQL login and assign rights
- 5. Run Database scripts to create tables and configure database

Enable TCP/IP on MSSQL

🚟 Sql Server Configuration Manager				
File Action View Help				
🗢 🔿 🖄 📓 🗟 🛛				
😤 SQL Server Configuration Manager (Local)	Protocol Name	Status		
SQL Server Services	👸 Shared Memory	Enabled		
🖳 SQL Server Network Configuration (32bit)	🐨 Named Pipes	Disabled		
🗉 💂 SQL Native Client 10.0 Configuration (32bit)	TCP/IP	Disabled		
🖃 🚊 SQL Server Network Configuration	VIA	Disabled	Enable	
Protocols for MSSQLSERVER	* ••••		Disable	
표 💂 SQL Native Client 10.0 Configuration				

- 1. Start SQL Server Configuration Manager. Click **Start**, point to **All Programs**, and click **Microsoft SQL Server**. Click **Configuration Tools**, and then click **SQL Server Configuration Manager**.
- 2. In SQL Server Configuration Manager, in the console pane, expand **SQL Server Network Configuration**.
- 3. In the console pane, click **Protocols for** *MSSQLSERVER*
- In the details pane, right-click **TCP/IP**, and then click **Enable**.
- 5. Restart SQL Services

Enable SQL Authentication



- 1. In SQL Server Management Studio Object Explorer, right-click the server, and then click **Properties**.
- 2. On the **Security** page, under **Server authentication**, select the new server authentication mode, and then click **OK**.
- 3. Restart SQL Services

Create Director Database



- 1. Right click on "Databases" and choose "New Database..."
- 2. Choose a name for the new database, for example "director"
- 3. Click "OK" on the New Databases dialog.

Create Login & Assign Rights

- 1. Expand Security
- Right click on "Logins" and choose "New Login..."
- 3. Chose domain account (for Win Auth) or chose new username and password (for SQL Server Auth)
- 4. Change Default database to Director database





Create Login & Assign Rights

📕 Login - New			
Select a page	🕵 Script 👻 🛐 Help		
🚰 General			
Server Roles	Users mapped to this login:		
Securables		User	Default Schema
Status	director	WIN-VUVUOEK7PFM\	
	master		
	T tempdb		
	🔲 Guest account enabled for: direc	stor	
	Database role membership for: direc	tor	
Connection	db_accessadmin		
Server:	db. datareader		
WIN-VUVUUEK/PFM	✓ db_datawriter		
Connection:	db_ddladmin		
WIN-VUVUUEK/PFM\Administrat	db_denydatareader		
View connection properties	db_denydatawriter		
	db_owner		
Progress	✓ public		
Beady			
neady			
			OK Cancel

- 1. Select "User Mapping" page
- 2. Place a checkbox for the Director database
- Provide the Login
 "db_datareader" and
 "db_datawriter" rights
- 4. Click OK to save changes

Run Database Create Script



- Double Click on "Venafi Encryption Director 8.o.o\Database Scripts\MSSQL\CreateDB.sql"
- 2. Make sure the Director database is selected
- 3. Click the "Execute" button
- Some warning messages are expected

- Ea	Messages
------	----------

Warning! The maximum key length is 900 bytes. The index 'config_locks_Name' has maximum le Warning! The maximum key length is 900 bytes. The index 'config_objects_Parent_Name' has a

Install Director

- 1. Execute MSI Installer from elevated command prompt
- 2. Accept licensing and choose installation location
- 3. Choose products to install
- 4. Choose product components to install
- 5. Configure connection to primary and failover Venafi Log Servers
- 6. Configure and verify database connection
- 7. Create Local Master Administrator credentials for Director software
- 8. Configure credentials for Microsoft Certificate Authority if component was selected
- 9. Review configuration summary and initiate product configuration

Execute MSI

- Venafi Director only available in 64-bit
- Start an "elevated command prompt" by right clicking on command prompt and choosing "Run as administrator"

Note: This is required because the MSI does not request the necessary permissions from the operating system during configuration. Hence the required permissions must be manually given.





- Command prompt title bar will start with "Administrator" if successfully started with elevated administrative rights.
- Change your working directory to the folder the MSI is stored using the "cd" command
- Type in the filename of the MSI and hit Enter.
 By default the file is named "DirectorInstallx64.msi"



Windows Install Shield will launch

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ιt	🖟 Venafi Encryption Director (64 bit) Setup 📃 🗖 🗙
ıi	End-User License Agreement
i	Please read the following license agreement carefully
i	
	END USER LICENSE AGREEMENT
	*** IMPORTANT ***
	PLEASE SCROLL THROUGH THIS AGREEMENT IN ITS ENTIRETY AND
	READ CAREFULLY BEFORE CONTINUING WITH THIS INSTALLATION. AT THE BOTTOM OF THIS SCREEN YOU ARE GIVEN THE CHOICE TO
	ACCEPT OR NOT ACCEPT THE TERMS OF THIS LICENSE AGREEMENT.
	BY CLICKING THAT YOU ACCEPT THE TERMS OF THIS LICENSE
	AGREEMENT, YOU AGREE TO BE BOUND BY THE TERMS OF THIS
	I accept the terms in the License Agreement
	\odot I <u>d</u> o not accept the terms in the License Agreement
	Print Back Cancel Cancel

- Read the End User
 License Agreement
- Accept the terms of the agreement

1	🖥 Venafi Encryption Director (64 bit) Setup 🛛 📃 🖂 🕅
i	Destination Folder Click Next to install to the default folder or click Change to choose another
i	Install Venafi Encryption Director (64 bit) to:
	C:\Program Files\Venafi\ Change
	Back Next Cancel

- Set the installation location or leave the default
- It is common to change the installation location to a drive other than the System drive.

t i	F Venafi Encryption Director (64 bit) Setup	
i i	Ready to install Venafi Encryption Director (64 bit)	VENAFL 202 202
		20:
	Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.	
	Back Install C	lancel

- Clicking "Install" will copy the binaries of the software to the desired location and register it with the Windows operating system.
- It does not configure the software.

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rat	🖓 Yenafi Encryption Director (64 bit) Setup	< 2 01
dmi afi	Installing Venafi Encryption Director (64 bit)	201 1 201 201
af i	Please wait while the Setup Wizard installs Venafi Encryption Director (64 bit).	201
	Status: Validating install	
	Back Next Cancel	

Installation usually only takes a couple of minutes

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2	🥸 Configuration Wizard		_ 🗆 ×	3
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	VENAEL	Completed the Venafi Eponyption Dire	ctor -	4:3
n		(64 bit) Set in Wizard		4:3
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n				
		Click the Finish button to exit the Setup Wizard.		
	-	Back Finish Can		-
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- After the Windows Installer finishes, the Director Control Center (DCC) wizard will automatically launch to walk you through the configuration of the software and prepare it for use.
- You can safely click "Finish" on the setup screen to close it.

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Director Control Center Wizard

- Welcome screen for DCC
- Can be reran anytime to change installation options by launching "dcc.exe – wizard" from an elevated command prompt found in "Venafi\Platform"



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Director Control Center Wizard

 Select which of the product(s) your organization is licensed for and would like to install in this environment.

Note: Director 8 does not currently implement software license enforcement. Although you can technically install and use all aspects of the software, you can only legally use what you have purchased and licensed. Contact your Venafi Account Manager or Customer Support to find out what your organization is licensed for.



- Components will be visible based on the products you chose to install
- By default all components are selected
- You may want to uncheck components that you will not be utilizing in your environment or on this particular server



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Log Server

- Log Server is a Windows service that collects event data from other services and consoles and sends the event data to predefined locations (ex: logs table in database)
- The Log Server windows service will be installed on all servers. This box controls whether DCC will enable or disable the windows service
- Each Director environment can only have one primary Log Server and one failover Log Server. If you already have these servers defined you may want to uncheck this component

Configuration Wizard	
omponent Selection Select the components you wish to enal	hle on this system
Select/Deselect all	Manages logging and notifications
Object Monitoring	Manages key expiration notifications
Reporting	Schedules and runs configured reports
Web Administration Console	Provides web-based administration
V Web SDK	Provides web services programming interfaces
✓ Validation	Performs asset status validation
Network Discovery	Schedules and runs network discoveries
✓ KMIP Server	Provides access for Venafi agents
Certificate Lifecycle and Monito	ming Manages certificate lifecycles
Microsoft CA Integration	Provides integration with the Microsoft CA
Network Device Enrollment	Provides certificate enrollment via SCEP
	< Back Next > Cancel

Object Monitoring

- Monitors the expiration of credential resources, SSH keys, and symmetric keys in Director
- Generates expiration events when objects near the expiration date

ble on this system.
Manages logging and notifications
Manages key expiration notifications
Schedules and runs configured reports
Provides web-based administration
Provides web services programming interfaces
Performs asset status validation
Schedules and runs network discoveries
Provides access for Venafi agents
ming Manages certificate lifecycles
Provides integration with the Microsoft CA
Provides certificate enrollment via SCEP
< <u>B</u> ack <u>N</u> ext > Cancel

Reporting

 Generates and delivers configured reports either on demand or via a schedule

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✓ Select/Deselect all		
✓ Log Server	Manages logging and notifications	
Object Monitoring	Manages key expiration notifications	
✓ Reporting	Schedules and runs configured reports	
Web Administration Console	Provides web-based administration	
🖉 Web SDK	Provides web services programming interfaces	
Validation	Performs asset status validation	
Vetwork Discovery	Schedules and runs network discoveries	
KMIP Server	Provides access for Venafi agents	
Certificate Lifecycle and Monito	Manages certificate lifecycles	
Microsoft CA Integration	Provides integration with the Microsoft CA	
Network Device Enrollment	Provides certificate enrollment via SCEP	
	< <u>B</u> ack <u>N</u> ext > Cancel	

Web Administration Console

- Provides remote access to daily administrative functions
- It is recommended that the Web Administration Console (Web Admin) be installed on at least one server.
 Some management functions can only be performed in Web Admin
- If checked, DCC will configure the "VedAdmin" web application within the "Venafi" site in IIS.

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	Object Monitoring Manages key expiration notifications	
	Reporting Schedules and runs configured reports	
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	Web SDK Provides web services programming interfaces	
	Validation Performs asset status validation	
	Network Discovery Schedules and runs network discoveries	
	KMIP Server Provides access for Venafi agents	
	Certificate Lifecycle and Monitoring Manages certificate lifecycles	
	Microsoft CA Integration Provides integration with the Microsoft CA	
	Network Device Enrollment Provides certificate enrollment via SCEP	
	< <u>B</u> ack <u>N</u> ext > Cancel	

Web SDK

- Provides a programming interface for third party applications through Director's web services REST API
- If checked, DCC will configure the "WebSDK" web application within the "Venafi" site in IIS
- Documentation can be found at <u>https://support.venafi.com</u>

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Log Server	Manages logging and notifications	
Object Monitoring	Manages key expiration notifications	
Reporting	Schedules and runs configured reports	
Web Administration Console	Provides web-based administration	
Web SDK	Provides web services programming interfaces	
Validation	Performs asset status validation	
Network Discovery	Schedules and runs network discoveries	
KMIP Server	Provides access for Venafi agents	
Certificate Lifecycle and Monito	ring Manages certificate lifecycles	
Microsoft CA Integration	Provides integration with the Microsoft CA	
Network Device Enrollment	Provides certificate enrollment via SCEP	
	< <u>B</u> ack <u>N</u> ext > Cancel	

Validation

- Runs daily and on-demand validation to ensure correct certificates and SSH keys are installed and functioning properly
- Component only available for Certificate Manager and SSH Key Manager products

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1	Object Monitoring Manages key expiration notifications	
	Reporting Schedules and runs configured reports	
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	Web SDK Provides web services programming interfaces	
	Validation Performs asset status validation	
	Image: Network Discovery Schedules and runs network discoveries	
	KMIP Server Provides access for Venafi agents	
	Certificate Lifecycle and Monitoring Manages certificate lifecycles	
	Microsoft CA Integration Provides integration with the Microsoft CA	
	Network Device Enrollment Provides certificate enrollment via SCEP	
A.	< <u>B</u> ack <u>N</u> ext > Cancel	

Network Discovery

- Runs schedulable and on-demand network discoveries of certificates and SSH keys
- Component only available for Certificate Manager and SSH Key Manager products



KMIP Server

- Enables Director services to listen for incoming connections from the Director Agent
- Component only available for Certificate Manager and SSH Key Manager products



Certificate Lifecycle and Monitoring

- Monitors expiration for certificates. Also responsible for key and CSR generation, enrollment and provisioning
- Component only available for Certificate Manager product



Microsoft CA Integration

- Director uses Microsoft DCOM technology to communicate with Microsoft Certificate Authority (MSCA)
- If checked, Director will prompt for the domain account used to authenticate with MSCA so that DCC can configured DCOM permissions on the local Director server
- Component only available for Certificate Manager product

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Select the components you wish to enal	ble on this system.	11
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✓ Log Server	Manages logging and notifications	
Object Monitoring	Manages key expiration notifications	
Reporting	Schedules and runs configured reports	
Web Administration Console	Provides web-based administration	
Web SDK	Provides web services programming interfaces	
Validation	Performs asset status validation	
Vetwork Discovery	Schedules and runs network discoveries	
KMIP Server	Provides access for Venafi agents	
Certificate Lifecycle and Monito	ming Manages certificate lifecycles	
Microsoft CA Integration	Provides integration with the Microsoft CA	
Network Device Enrollment	Provides certificate enrollment via SCEP	
	< <u>B</u> ack <u>N</u> ext > Cancel	

Network Device Enrollment

- Enables Director to be able to enroll certificates via SCEP protocol
- Typically used with mobile device management platforms and network appliances
- If checked, DCC will configure the "NDE" web application within the "Venafi" site in IIS
- Component only available for Certificate Manager product

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Component Selection	an this success	4:
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Select/Deselect all		
✓ Log Server	Manages logging and notifications	
Object Monitoring	Manages key expiration notifications	
Reporting	Schedules and runs configured reports	
Web Administration Console	Provides web-based administration	
Web SDK	Provides web services programming interfaces	
Validation	Performs asset status validation	
Network Discovery	Schedules and runs network discoveries	
KMIP Server	Provides access for Venafi agents	
Certificate Lifecycle and Monitorin	ng Manages certificate lifecycles	
Microsoft CA Integration	Provides integration with the Microsoft CA	
Network Device Enrollment	Provides certificate enrollment via SCEP	
	A Pack Next a Cancel	•
	< Dack INext > Cancel	

Shared Encryption Key

- Director uses a shared symmetric encryption key to encrypt sensitive portions of the database
- If this is the first server in a new environment, click "Next" and a key will be generated for you
- If this server will be joining an existing Director environment, type in the key password and paste the Encoded key
- Shared Encryption Key is often referred to as the "DPAPI Key" because it is protected by Microsoft's Data Protection API



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Director Control Center Wizard

Log Server Addresses

- Type in the IP address of the Primary Log Server and Secondary Log Server
- If there will only be on Director server in your environment then leave the defaults and click "Next"
- If a multi-engine environment (multiple Director server), type in the IP address of the Secondary Log Server
- IPv4 and IPv6 both accepted



Database Configuration

- Select the type of database
- If using Windows Authentication for MS SQL Server, check the box
- Type in the connection information. All fields required
- Click "Verify" and DCC will attempt to use the information provided to test the connection to the database
- Problems will result in an error message. Success will result in "Next" becoming enabled to click on

Configuration W VENOFI. Database Configur Please enter the de	izard ration etails about your database (which s	should already	have been prepared with the Venafi
Encryption Director <u>M</u> S SQL Server M <u>V</u> SQL Server	r tables.) ✓ Use Windows <u>A</u> uthentication		
Oracle			
<u>U</u> sername:	Administrator	Password:	•••••
<u>H</u> ost:	localhost	Po <u>r</u> t:	1433
Database: director			
"Next" butto	on will become enabled o	once verifi	cation is successful.
	< <u>B</u> ack	<u>N</u> ext >	Cancel

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Create Local Master Admin Account

- Create the first account used to login to Director
- Master Admin account has all rights to all aspects of Director
- Used to join other servers to environment and perform upgrades
- Can create multiple Master Admin accounts within Director
- Username chosen here, but cannot be renamed later.



Microsoft Certificate Authority Credentials

- Username can be in NTLM or UPN format
- If windows account does not exist, DCC will error out at the end of the wizard when it attempts to configure permissions for Windows DCOM



Summary

- Scroll through the summary to review the information collected during the DCC Wizard
- Select the box to start Director services
- Click Finish



Configuring Director Services and Components

- Scroll through the summary to review the information collected during the DCC Wizard
- Select the box to start Director services
- Click Finish



- Director is now successfully installed
- Click the "Close" button to exit the Director Control Center Wizard

Configuration Wizar	d	_ 🗆 ×
VENAFL		
\smile		
	Summary:	
	The following components will be enabled:	
Preparing	Venafi Encryption Director	
Step:	Configuration complete.	
	Close	
	Information will be installed into a new MS SQL database, usin following connection settings:	g the 💌
	✓ Start Director services after configuration	V
	< <u>B</u> ack <u>Finish</u> Cancel	

Re-Run Wizard

- Type in "dcc.exe -wizard" from Venafi\Platform folder
- Can change what components are installed on server
- Can Change DCOM Credentials for Microsoft Certificate Authority
- Must have existing Master Admin credentials to complete wizard





Multi-Engine Setup

Director's architecture allows it to scales across multiple servers for:

- Load Balancing
 - When the work is spread across multiple engines, the work is performed faster
- Fault Tolerance
 - When an engine goes offline, other engines with the same roles can resume the work
- Enhanced Network Access
 - Deploy Director engines to restricted network segments for discovery, validation, and provisioning

Export Shared Encryption Key

📙 Platform					
Computer					
Organize 🔻 🔣 Open N	ew folder				
🛧 Favorites	Name 🔶		Date	modified	
🧮 Desktop	DCC		3/1/2	013 4:21	
〕 Downloads	DPAPI_KeyUtility	2	0/1/0	013 4:21	
🔚 Recent Places	SrameworkSupport.c	Rup as administrator		13 4:20	
	💷 GenerateMIB	Troublochoot compatib	ility	3 4:21	
Converses	💷 InstallTool	Pin to Taskbar		013 4:21	
Music	💷 LogServer	Pin to Start Menu Restore previous versi	ons	13 4:21	
	🚳 Microsoft.mshtml.dll	Sond to		2013 6:3	
Videos	💷 Migrator			013 4:21	
_	💷 SchemaTool	Cut		013 4:21	
📜 Computer	🚳 Venafi.Core.dll			013 4:20	
	🚳 Venafi.UI.Controls.W	Create shortcut Delete		13 4:20	
🙀 Network	VPlatform	Rename		013 4:21	
	🚳 VScep.dli	Properties		013 4:20	
	💟 WinAdmin		3/1/2	013 4:21	

- 1. Browse to Venafi\Platform
- Right Click on "DPAPI_KeyUtility.exe"
- 3. Choose "Run as administrator"

Export Shared Encryption Key

Venafi DPAPI Key Utilit	у 🗵			
O Import				
• Export				
Existing Keys:	Default 🔹			
<u>P</u> assword:	•••••			
Confirm P <u>a</u> ssword:	•••••			
<u>C</u> ancel	Export	👻 🔽 Search Desktop	,	>
Organize 🔻 New to	older)= • ()
🔶 Favorites	Name -	Date modified	Туре	
Desktop Downloads Recent Places Pocuments Music Pictures Videos	Venafi Encryption Director 8.0.0	9/3/2013 4:35 PM	File folder	
💼 Network				1
File name: Save as type:	Director Key			•
Hide Folders	,	Save	Cancel	

- 4. Choose a password to encrypt the key file
- 5. Click "Export"
- 6. Choose a File Name (File Type will be left blank)
- 7. Click "Save"
- 8. Store the Shared Encryption Key file in a safe and protected space
- 9. Temporarily copy to servers you will be installing Director on

Install Director on Additional Engine

Installing Director on Additional Servers is very similar to installing it on your first server. There are some key differences:

- Skip database setup on database server, it has already been done
- Choose different components depending upon the role of the server
- Enter the Shared Encryption Key instead of having DCC create a new one
- Enter your Master Admin credentials instead of creating them

Launch MSI

- Launch the MSI from an elevated command prompt the same way done on the original Director Server
- Accept End User License Agreement
- Install it to the same physical path (not required but recommended)

Log Server Configuration

😳 Configuration Wizard	
VENAFL	
Log Server Selection Please provide the address of you	ur primary and (optionally) secondary log server.
Primary Log Server Address:	ec2-54-221-95-26.compute-1.amazonaws.com
Secondary Log Server Address:	ec2-54-211-161-0.compute-1.amazonaws.com
	Create <u>default</u> log channels and notifications
	< <u>B</u> ack <u>N</u> ext > Cancel

- Enter the hostname/IP of the first director server
- Put hostname/IP for the secondary server

Shared Encryption Key



- Check "Use Shared Key"
- Paste the encoded key into the space provided
- Type the corresponding password for the encoded key that was created when you exported the key

Database Settings

😵 Configuration W	izard							
VENAFI.								
Database Configuration Please enter the details about your database (which should already have been prepared with the Venafi Encryption Director tables.)								
• MS SQL Server	Use Windows <u>A</u> uthentication							
MySQL Server								
Oracle								
<u>U</u> sername:	sa	Password:	•••••					
<u>H</u> ost:	ec2-54-221-95-26.compute-1.am	Po <u>r</u> t:	1433					
<u>D</u> atabase:	director		Verify					
	< <u>B</u> ack	<u>N</u> ext >	Cancel					

 Type in the connection information to connect to the database

Note: Windows Authentication can only be used to connect when the director server is in a trusted domain of the database server

Master Credential Verification

😳 Configuration Wizard								
VENAFL								
Admin Account Credentials Please provide the credentials for the Venafi Encryption Director administrative account.								
Administrator Account:	Admin							
Admin <u>P</u> assword:	•••••							
					<u>V</u> erify			
				_				
	< <u>E</u>	Back	<u>N</u> ext >	Cancel				

Type in a set of local master administrative credentials

Note: These are typically the credentials created during the Director Control Center wizard on the first server – but can be any local master admin credentials if more were created later