



IronKey Enterprise Server 6.1

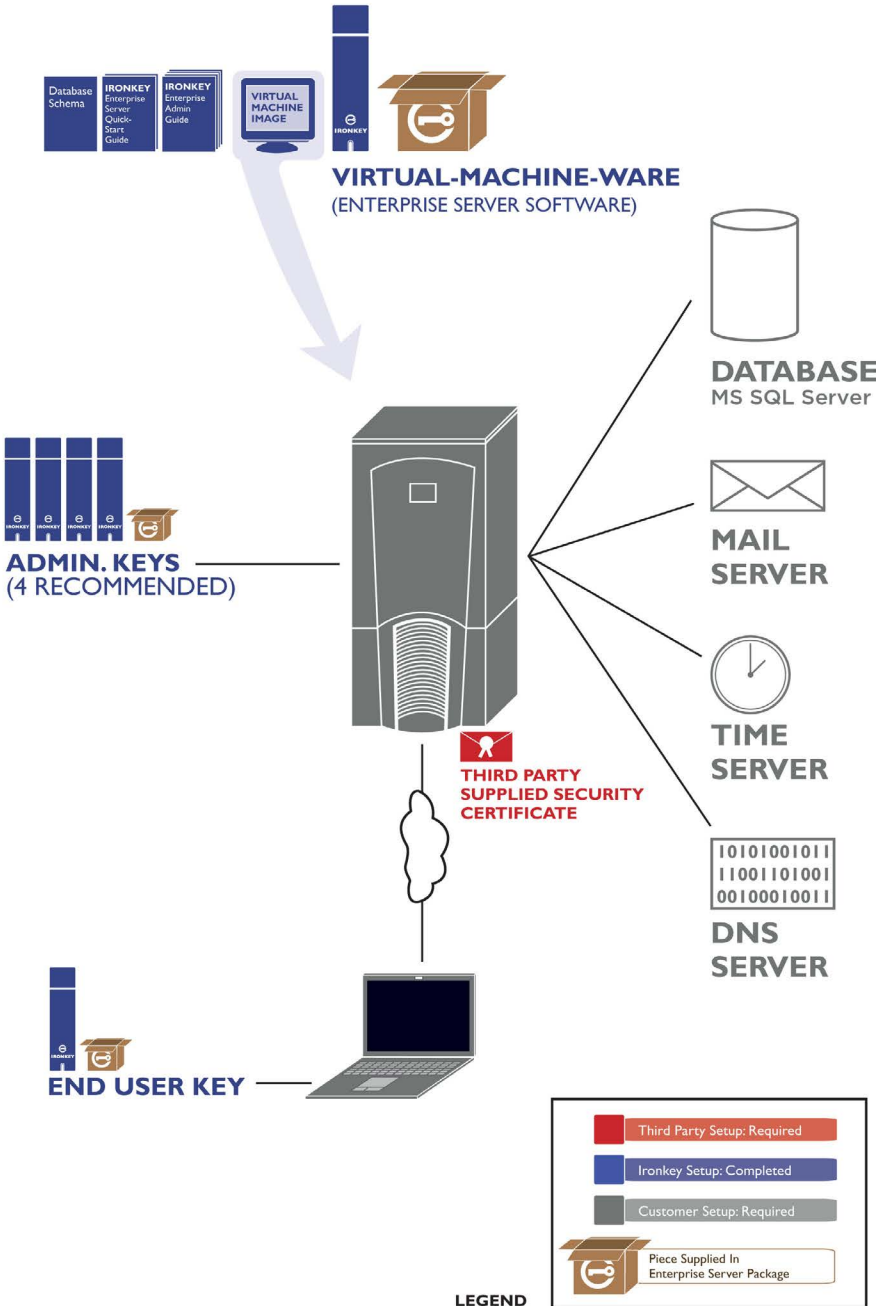
Quick Start Guide

Last Updated September 2015

System Requirements

Requirement	Description
Database	<p>Microsoft SQL Server 2005, Microsoft SQL Server 2008, or Microsoft SQL Server 2012, Microsoft SQL Server Express 2012</p> <p>Note: Only the default database instance is supported. IronKey Enterprise Server does not support named instances.</p>
Host system requirements in ESXi environment	
<p>vSphere ESXi version 5.0 or higher (the ESXi version must support the Guest OS CentOS v6.6—the OS on which IronKey Enterprise Server is installed). See the VMware Compatibility Guide for more information.</p>	<p>Host machine must meet the minimum system requirements for this version in addition to minimum ESXi requirements provided by VMware. See VMware product documentation for more details: http://www.vmware.com</p> <p>Note: You must have VMware vSphere ESXi already installed and set up on your host before you install IronKey Enterprise Server. Information on installing ESXi is outside the scope of this guide, see VMware product documentation.</p>
Ethernet physical network adapter	1GB or faster
Memory	4GB physical RAM
Physical datastore space	70GB available space
Host system requirements in ACE Player environment (cannot be installed on any virtual machines, such as ESXi, Microsoft Hyper-V, Oracle VM Virtualbox)	
PC hardware	Two x86/x64 compatible 2+ GHz CPU cores minimum (4 cores recommended)
Operating system	Windows Server 2003, Windows Server 2008, or Windows Server 2012
Memory	4GB minimum (8GB recommended)
Display	16-bit (32-bit display adapter is recommended)
Hard Disk	30GB free disk space required; 60GB recommended.
Local Area Networking	Any Ethernet controller supported by the host operating system.

ENTERPRISE SERVER ARCHITECTURAL DIAGRAM



Installation Worksheet

Complete this worksheet to speed up installation.

ENTERPRISE ACCOUNT NUMBER (from Welcome Email)	DATABASE SERVER IP OR FQDN
SETUP DEVICE PASSWORD (from Welcome Email)	DATABASE PORT
INSTALLATION PASSWORD (VMWARE ACE ENVIRONMENT ONLY) (from Welcome Email)	DATABASE USERNAME & PASSWORD (required: db_owner privileges)
CLI USERNAME (from Welcome Email)	DATABASE NAME (recommended: es_master)
CLI PASSWORD (rom Welcome Email)	SITE NAME FOR SSL CERTIFICATE (FQDN of server used on certificate)
HOST NAME (to be assigned to Enterprise Server)	SSL CERTIFICATE FILE & CERTIFICATE CHAIN FILE (Save a backup copy of these files in a secure location)
DNS SERVER IP	IP OR FQDN FOR SYSLOG SERVER (Optional)
STATIC IP ADDRESS (assigned to Enterprise Server)	PRIMARY SYSTEM ADMIN USERNAME
SUBNET MASK (for Enterprise Server)	PRIMARY SYSTEM ADMIN EMAIL
DEFAULT GATEWAY IP (for Enterprise Server)	SECONDARY SYSTEM ADMIN EMAIL
NTP SERVER IP OR FQDN (optional)	SECONDARY SYSTEM ADMIN USERNAME
SMTP SERVER IP OR FQDN (check if your SMTP required a password)	

What's in the Box?

IronKey Enterprise Server: Software Kit box contains six IronKey devices (S250/D250):

- » One Setup device (labeled “Carrier/Setup”) with the software for installing IronKey Enterprise Server
- » Four System Admin devices (labeled “Sys.Admin”)
- » One Standard User device (labeled “User”) to be used for testing

Before Starting

To speed up your installation, gather the following information and resources:

- ❑ Any required network (DNS, Gateway, IP assignment, SMTP, and NTP) information to set up a new machine in your data center.
- ❑ Database administration access for your Microsoft SQL Server—required to install an instance of the database.
- ❑ Access to the network, systems, and ports that the above components will require.
- ❑ An SSL website certificate for a valid public domain from an approved certificate authority (VeriSign, RSA Security Inc., Thawte, GoDaddy, Comodo, Entrust.net, GeoTrust, Valicert, Visa, BeTrusted, Aba.com, AddTrust, Baltimore, DST, GTE, GlobalSign, Sonera, TC TrustCenter)
- ❑ A host computer with network capability and sufficient configuration (disk, memory) required to support the software you will install (see the System Requirements section)
- ❑ The Welcome Email sent to you by Customer Service at IronKey.
- ❑ The Setup Device that contains the Enterprise Server software.
- ❑ Two System Admin devices from the Server Kit.

This installation takes about an hour if all of the above items are ready.

Install IronKey Enterprise Server

Before installing the server, give the IronKey_ES_V61.bak file, located in the Utils folder on the secure volume of the Setup device, to your database administrator to set up the database.

The Setup device provides two options for installing the server:

- » VMware vSphere ESXi environment
- » VMware ACE environment

Choose the option that corresponds to your operating environment.

Deploy Enterprise Server in vSphere ESXi environment

Steps	
1	Insert the IronKey Setup device into the USB port of the host computer. If you do not see a prompt to unlock the device, go to “My Computer,” double-click the IronKey icon, and then double-click <code>IronKey.exe</code> .
2	Enter the Setup device password, and then click the Unlock button. The password is the same as your account number, which you received in the Enterprise Server kit and in the Welcome Email. The IronKey Control Panel opens.
3	Login to the VMware vSphere ESXi server using VMware vSphere ESXi Client. You will be asked for the IP address/name of the host as well as the Username and Password.
4	In vSphere Client, click File, Deploy OVF Template . Note: If you have multiple Resource Pools in your ESXi environment, choose the Resource Pool to which you want to deploy the Server, and then click File, Deploy OVF Template . If you do not select a Resource Pool, you will be prompted to do so later in the setup.
5	On the Deploy OVF Template screen, click Browse . Navigate to the IronKey_ES OVA folder on the IronKey Setup device and select the <code>IronKey_ES.ova</code> file, then click Next .
6	Click Next after verifying the details of the Enterprise Server virtual machine template.
7	On the Name and Location screen, enter a virtual machine name that is unique to your ESXi inventory and click Next .
8	If prompted to select a Resource Pool, select it and click Next .
9	Select the destination storage for the virtual machine files. This screen will not display on ESXi servers with a single datastore. Click Next .

Steps

10	On the Disk Format screen, it is recommended that you choose the Thin Provision option to reduce the install time and to minimize disk space usage. Click Next .
11	On the Network Mapping screen, select the network that you want Enterprise Server to use from the Destination Networks list box. This screen will not display on ESXi servers with only one VM network. Click Next .
12	Verify the installation options and click to enable the Power on after deployment check box. Click Finish . If you do not enable the Power on after deployment check box, you must start the VM manually after the deployment is completed.
13	An installation status dialog box will display to indicate how much time is left in the install process. Total time will vary depending on the ESXi CPU and the server disk throughput.
14	When the Deployment Completed Successfully dialog box displays, click Close .

Install Enterprise Server in ACE environment

Steps

1	IMPORTANT: ACE installation is not compatible with Type 1 Hypervisors, such as VMware ESXi or a Citrix XenSource solution. Insert the IronKey Setup device into the USB port of the host computer. If you do not see a prompt to unlock the device, go to “My Computer;” double-click the IronKey icon, and then double-click <code>IronKey.exe</code> .
2	Enter the Setup device password, and then click the Unlock button. The password is the same as your account number, which you received in the Enterprise Server kit and in the Welcome Email. The IronKey Control Panel opens.
3	In the Applications list of IronKey Control Panel, click Install IronKey Enterprise Server with ACE Environment .
4	When the Setup Wizard appears, click Next to continue.
5	Specify the installation folder where the VMware software and the VM will be installed.

Steps	
6	To create a shortcut for the application, leave the default selection as-is. NOTE: If you do not want a desktop shortcut, click to clear the On the Desktop box. Click Next .
7	Click Install to start the process. A progress screen displays during installation.
8	To run IronKey Enterprise Server when it is finished installing, leave the Run IronKey_ES check box selected, and then click Next .
9	When the process completes, click Finish . NOTE: Some installations require a restart of your computer. Restart your computer if prompted to do so.

Configure IronKey Enterprise Server

Steps	
1	Start the IronKey Enterprise Server VM if not already running. <ul style="list-style-type: none"> » ESXi environment: Right-click the Server and choose Power, Power On. » ACE environment: Double-click the IronKey_ES VM shortcut. Enter the ACE password from your Welcome Email, and click OK.
2	Log in to the Command Line Interface (CLI) shell using the CLI user and CLI password from your Welcome Email. The first time you log in, you will be required to change the password.
3	Set the host name: <code>network hostname myhost.domain.com</code>
4	Configure a static IP address: <code>network interface static <static IP> <IP mask> <Gateway></code>
5	Add the DNS name server: <code>network dns add <DNS server IP></code>
6	Add the NTP server: <code>sysconf ntp addserver <NTP server IP or FQDN></code> If no NTP server is available, set the time (GMT) using the <code>sysconf time</code> command. Enterprise Server will show the correct time once you set the date or add the NTP server.

Steps

7	Configure the SMTP server: <code>sysconf smtp set <SMTP FQDN or IP></code> Answer Y or N to the authentication question. Does the relayhost <SMTP_server> require authentication (y/n)?
8	Configure the database server information: <code>application database configure <DB server IP or hostname> <port ID> <DB username> <DB password> mssql <Database Name></code>
9	Set the URL of the server as it will be accessed by devices: <code>application siteName set <site name></code>
10	Concatenate your private key and your SSL certificate into a single file, and then name the file: <code>server.crt</code> Name the certificate chain file: <code>issuer.crt</code> Use a Secure Copy (SCP) utility (e.g. command-line PSCP or GUI-based WinSCP) to copy the files to: <code>/upload</code>
11	Install the certificates: <code>application certificate install</code>
12	Enable HTTPS: <code>application SSL enable</code>
13	Start the application server: <code>service start appserver</code>

Set up your Enterprise account

Steps

1	Go to: <i>https://<application siteName>/enterprisesetup</i> (where <application siteName> is the value you entered in step 10 of the “Configure IronKey Enterprise Server” procedure) From your Welcome email, copy the 10-digit account code (in the format XXXXX-XXXXX) and paste it into the Enterprise Account Number box. Click Enter .
2	In the License Request page, copy the string from the text box on the left and email it to: <i>securitycs@imation.com</i> Check your email for a message from Customer Service. This may take 24-48 hours to complete.

Steps

3	On the License Request page, copy the license key from the Customer Service email and paste it into the text box on the right. Click Enter .
4	Select the check box to confirm that you are authorized to set up your organization's IronKey Enterprise account. Click Continue .
5	On the Create Your Own Online IronKey Account page, enter an email address and assign a user name for the first and second System Administrator. User names can contain letters and/or numbers. Click Continue .
6	On the Create the Default device policy page, click Create Policy to open the policy setup. NOTE: The Default device policy will be applied to the 1st and 2nd System Admin devices during device activation.
7	On the Default Device Policy page, scroll through and review each section. Configure the settings and applications that you want to be included in the Default device policy for your Enterprise Account.
8	When you finish setting all device policy options, scroll to the end of the Default device policy and click OK to continue with the Enterprise Account Setup.
9	On the Review Default device policy page, verify the policy settings and do one of the following. <ul style="list-style-type: none">• If you are satisfied with the policy selections, click Finish to complete the Enterprise Account Setup.• If you need to change a setting, click Edit Policy.
10	A confirmation message will indicate that your Enterprise Account has been successfully created.
11	Reboot Enterprise server. IMPORTANT: Device activation will fail if you do not reboot the server before you activate devices. Use the CLI command <code>sysconf reboot</code> .

Initialize the first System Admin device

Steps

1	Plug in an IronKey Enterprise System Admin (labeled Sys.Admin) device from your kit into the host computer. The device must be new and not previously activated.
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Steps

2	The “Device Setup” screen appears. If this screen does not appear, go to “My Computer;” double-click the IronKey icon, and then double-click <code>IronKey.exe</code> .
3	Copy and paste the Activation Code from the Welcome Email. Select a default language preference, agree to the end-user license agreement, and then click Activate .
4	Type a device password and confirm it, and then click Continue . Your password is case-sensitive and must comply with the password policy you set when you created the Enterprise Account.
5	A message prompt will appear indicating that an email has been sent to you. Follow the instructions in the email to set up your online account; this includes creating a “secret question”.
6	The IronKey device initializes. During this process, it generates the AES encryption keys, creates the file system for the secure volume, and copies secure applications and files to the secure volume based on your policy settings. Depending on your configuration, this might take several minutes. When initialization completes, the IronKey Control Panel displays the applications available for you to use.
7	Log in to the Admin Console by clicking the Admin Console button on the Applications page in IronKey Control Panel.
8	Review the information on the Welcome screen.

What’s next?

Activate the 2nd System Admin device, add more users, define policies, and perform account maintenance using the Admin Console.

This product provides warranty and compliance agreements as noted at <http://support.ironkey.com>.

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See the *IronKey Enterprise Server Setup Guide* and the *Admin Guide* for more information.