

IronKey EMS Quick Start Guide

version 7.3

DataLocker Inc.

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System Requirements

Requirement	Description
Database	Microsoft SQL Server 2005, Microsoft SQL Server 2008, Microsoft SQL Server 2012, or Microsoft SQL Server 2016, Microsoft SQL Server Express 2005, Microsoft SQL Server Express 2008, Microsoft SQL Server Express 2012, or Microsoft SQL Server Express 2016 Note: Only the default database instance is supported. IronKey EMS On-Prem does not support named instances.

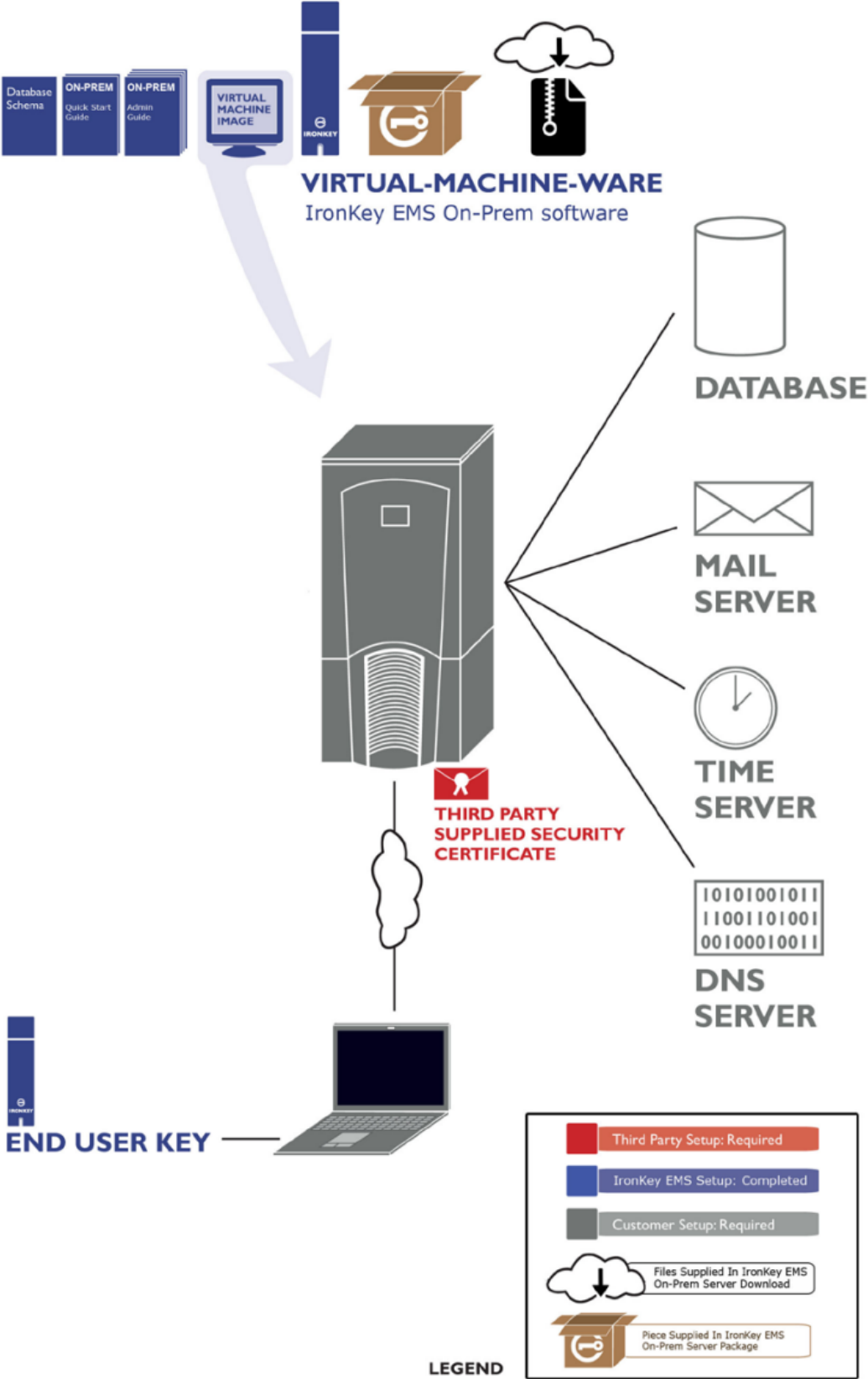
Host system requirements in ESXi environment

vSphere ESXi version 5.0 or higher (the ESXi version must support the Guest OS CentOS v6.6 - the OS on which IronKey EMS On-Prem is installed). See the VMware Compatibility Guide for more information.	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: https://www.vmware.com Note: You must have VMware vSphere ESXi already installed and set up on your host before you install IronKey EMS On-Prem. Information on installing ESXi is outside the scope of this guide, see VMware product documentation.
Ethernet physical network adapter	1Gb or faster
Memory	4GB physical RAM
Physical datastore space	70GB available space

Host system requirements in VMware Workstation 12 Player environment

VMware Workstation 12 Player (or higher)	Host machine must meet the minimum system requirements for this version in addition to minimum requirements provided by VMware. See VMware product documentation for more details: http://www.vmware.com NOTE: You must have VMware Workstation 12 Player already installed and set up on your host before you deploy IronKey EMS On-Prem. Information on installing VMware Workstation is outside the scope of this guide, see VMware product documentation.
Operating system	Windows Server 2008 or Windows Server 2012
Ethernet physical network adapter	1GB or faster
Memory	4GB physical RAM
Hard Disk	30GB free disk space required; 60GB recommended

IronKey EMS On-Prem Architectural Diagram



Installation Worksheet

IRONKEY EMS ACCOUNT NUMBER (from Welcome Email)	DATABASE SERVER IP OR FQDN
DOWNLOAD LINK TO IRONKEY EMS ON-PREM SERVER OR PASSWORD FOR THE SETUP DEVICE IF YOU RECEIVED A SERVER KIT (from Welcome Email)	DATABASE PORT
CLI USERNAME (from Welcome Email)	DATABASE USERNAME & PASSWORD (required: db_owner privileges)
CLI PASSWORD (from Welcome Email)	DATABASE NAME (example: ent_server)
HOST NAME (to be assigned to IronKey EMS On-Prem)	SITE NAME FOR SSL CERTIFICATE (FQDN of server used on certificate)
DNS SERVER IP	SSL CERTIFICATE FILE & CERTIFICATE CHAIN FILE (Save a backup copy of these files in a secure location)
STATIC IP ADDRESS (assigned to IronKey EMS On-Prem)	IP OR FQDN FOR SYSLOG SERVER (Optional)
SUBNET MASK (for IronKey EMS On-Prem)	PRIMARY SYSTEM ADMIN EMAIL AND USERNAME
DEFAULT GATEWAY IP (for IronKey EMS On-Prem)	SECONDARY SYSTEM ADMIN EMAIL AND USERNAME
NTP SERVER IP OR FQDN (optional)	
SMTP SERVER IP OR FQDN (check if your SMTP required a password)	

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 DataLocker.

- () IronKey EMS On-Prem software downloaded or received in the Server Kit.

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

Install IronKey EMS On-Prem

Before installing the Server, give the IronKey_EMS_OnPrem_v73.bak file, located in the Utils folder of the server download (or on the Setup device if you received the Server Kit), to your database administrator to set up the database. IronKey EMS On-Prem provides two options for installing the server:

- VMware vSphere ESXi environment
- VMware Workstation 12 Player environment

Choose the option that corresponds to your operating environment.

Deploy IronKey EMS On-Prem In vSphere ESXi Environment

1. If you received IronKey EMS On-Prem as a download, go to step 3.

If you received the IronKey EMS On-Prem Server Kit, insert the Setup device into the USB port of the host computer. If you do not see a prompt to unlock the device, in a file manager, go to **My Computer** and double-click the **IronKey** icon, then double-click **IronKey.exe**.

2. Enter the Setup device password, and then click the **Unlock** button. The Control Panel opens. The password is the same as your account number, which you received in the Server Kit and in the Welcome Email.

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_EMS_OnPrem OVA** folder from the server download file (or on the Setup device if you received the Server Kit) and select the IronKey_EMS_OnPrem.ova file, then click **Next**.

6. Click **Next** after verifying the details of the IronKey EMS On-Prem 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**.

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 IronKey EMS On-Prem 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**.

Deploy IronKey EMS On-Prem to VMware Workstation 12 Player

1. If you received IronKey EMS On-Prem Server as a download, go to step 3.

If you received the IronKey EMS On-Prem Server Kit, insert the Setup device into the USB port of the host computer. If you do not see a prompt to unlock the device, in a file manager, go to **My Computer** and double-click the **IronKey** icon, then double-click **IronKey.exe**.

2. Enter the Setup device password, and then click the **Unlock** button. The Control Panel opens. The password is the same as your account number, which you received in the Server Kit and in the Welcome Email.

3. Start VMware Workstation Player. On the **Welcome** screen, select **Open a Virtual Machine**.

4. Navigate to the **IronKey_EMS_OnPrem OVA** folder of the IronKey EMS On-Prem server download file (or on the Setup device if you received the Server Kit), select the **Iron-Key_EMS_OnPrem.ova** file, and then click **Open**.

5. On the **Import Virtual Machine** screen, do the following:
 - Type a name for the IronKey EMS On-Prem virtual machine, for example "IronKey_EMS".
 - Provide a path to the location where the VM will be stored or click **Browse** to navigate to the storage location. Click **Import**. By default the VM is powered off after it's imported.

6. To start the IronKey EMS On-Prem VM, select it from the list and click **Play virtual machine**.

Hint: You can also start the Server by right-clicking the Server and choosing **Power On** or double-clicking the Server.

Note: You may see a warning about binary translation incompatibility if the "Virtualization Technology" setting is disabled in the BIOS of the host system. This is because IronKey EMS On-Prem uses a 32-bit operating system and this feature is not supported with a 32-bit OS. To avoid seeing the warning when you start the Server, do one of the following:

 - Click the **Do not show this hint again** check box if you do not require the Virtualization Technology setting to be enabled in the BIOS. Then click OK.
 - Enable the Virtualization Technology setting in the BIOS. The warning will not display the next time you start IronKey EMS On-Prem.

7. Select **IronKey EMS On-Prem** and press **ENTER** to start the server.

8. At the IronKey EMS Command Line Interface (CLI) for IronKey EMS On-Prem, log in using the CLI username and password provided in your Welcome Email. You will be required to change your login password. The password requirements are:
 - 10 character minimum
 - 1 uppercase letter
 - 1 lowercase letter

- 1 digit
- 1 special character

Configure IronKey EMS On-Prem

1. Start the IronKey EMS On-Prem VM if not already running.
 - **ESXi environment:** Right-click the Server and choose **Power, Power On.**
 - **VMware Workstation 12 Player environment:** Right-click the Server and choose **Power On.**
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:

```
network hostname myhost.domain.com
```

4. Configure a static IP address:

```
network interface static <static IP> <IP mask> <Gateway>
```

5. Add the DNS name server:

```
network dns add <DNS server IP>
```

6. Add the NTP server:

```
sysconf ntp addserver <NTP server IP or FQDN>
```

If no NTP server is available, set the time (GMT) using the `sysconf time` command. IronKey EMS On-Prem will show the correct time once you set the date or add the NTP server.

7. Configure the SMTP server:

```
sysconf smtp set <SMTP server IP or hostname:port>
```

Answer Y or N to the authentication question.

```
Does the relayhost <SMTP_server> require authentication (y/n)?
```

8. Configure the database server information:

```
application database configure <DB server IP or hostname> <port ID> <DB username>  
<DB password> mssql <Database Name>
```

9. Set the URL of the server as it will be accessed by devices:

```
application siteName set <site name>
```

10. Concatenate your private key and your SSL certificate into a single file, and then name the file: `server.crt`

Name the certificate chain file: `issuer.crt`

Use a Secure Copy (SCP) utility (e.g. command-line PSCP or GUI-based WinSCP) to copy the files to: `/upload`

11. Install the certificates:

```
application certificate install
```

12. Enable HTTPS:

```
application SSL enable
```

13. Start the application server:

```
service start appserver
```

Set Up Your IronKey EMS Account

1. Go to: **https:// < application sitename >/enterprisesetup** (where `<application siteName>` is the value you entered in step 10 of the "Configure IronKey EMS On-Prem" procedure) From your Welcome email, copy the 10-digit account number (in the format XXXXX-XXXXX) and paste it into the **IronKey EMS 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: license@datalocker.com

Check your email for a message from Customer Service. This may take 24-48 hours to complete.

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 EMS account.

Click **Continue**.

5. On the **Create an online account for the first and second System Administrators** page, enter an email address and the First and Last name of the first and second System Administrator.

Click **Continue**.

6. On the **Create the Default User Policy** page, click **Create Policy** to open the policy setup.

Note: The Default User Policy will be applied to the 1st and 2nd System Admin when they activate their online account.

7. On the **Default User Policy** page, scroll through and review each section. Configure the settings that you want to be included in the Default User Policy for your IronKey EMS Account.

Each policy section displays the system default settings.

When you finish setting all user policy options, scroll to the end of the Default User Policy and click OK to continue with the IronKey EMS Account Setup.

8. On the **Review Default User Policy** page, verify the policy settings and do one of the following.

If you are satisfied with the policy selections, click **Finish** to complete the IronKey EMS Account Setup.

If you need to change a setting, click **Edit Policy**.

9. A confirmation message will indicate that your IronKey EMS Account has been successfully created.

Each System Admin will receive an email message with instructions on how to activate their online account.

Note: It is recommended that you keep this confirmation page open until the System Admin users have received the activation email. If they do not receive it, you can resend the email by clicking **Resend Activation Email**.

10. Reboot IronKey EMS On-Prem.

CLI command: `sysconf reboot`

Important: If you do not reboot the Server before users activate devices, the activation process will fail. Be sure to perform this step before activating any devices.

Activate The System Admin Online Account

1. Open the activation email that was sent during the setup of the IronKey EMS Account.

Note: If you did not receive an email, check your spam or bulk mail folder.

2. In the email message, click the **Activation link**. The **Online Account Setup** screen will open in a web browser.

3. On the **Online Account Setup** screen, do the following:

- In the **Username** text box, create a user name for your account.
- In the **Password** text box, create an account password and confirm the password. Passwords are case-sensitive and must comply with the password policy defined during the IronKey EMS Account setup.
- Select a question from the **Secret Question** list box or create your own secret question.
- In the **Answer to Secret Question** text box, provide the response to the secret question. The secret question will be used to verify your identity if you have to reset your password.

Click **Create Account**.

A confirmation message will display to indicate that you have successfully created your online account.

4. To log in to the management console, enter your IronKey EMS credentials (Username and Password) and click **Log in**.

5. On the **Access Code** page, follow the instructions onscreen to retrieve and paste the Access Code in the field provided, and then click the **Submit** button.

A Welcome page will appear with information and instructions on next steps.

6. If you are the first System Admin to activate your online account and access the Admin Console, the Welcome page will prompt you to create the Default Device Policy. Click the **Create Default Device Policy** button to continue.

Note: If you are the second System Admin to activate your online account, you will not be prompted to create the Default Device Policy. The management console will appear as soon as you close the Welcome page.

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 IronKey EMS Account.

Each policy section displays the system default settings and lists the devices to which these settings apply.

Important: In the "Password Policy" section, under "General Password Settings", configure the "Max Failed Unlock Attempts" setting with a balance of security and end-user convenience in mind. If the user exceeds the maximum, the device will "self-destruct" and all data will be permanently lost. The drive can no longer be used. D300 and Sentry devices do not self-destruct but will reset to a factory state, erasing all onboard data.

8. When you finish setting all device policy options, scroll to the end of the Default Device Policy and click **Save**.

9. The management console will open in your web browser. You can now start adding users and managing your IronKey EMS account.

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

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See the *IronKey EMS On-Prem Setup Guide* and the *Admin Guide* for more information.