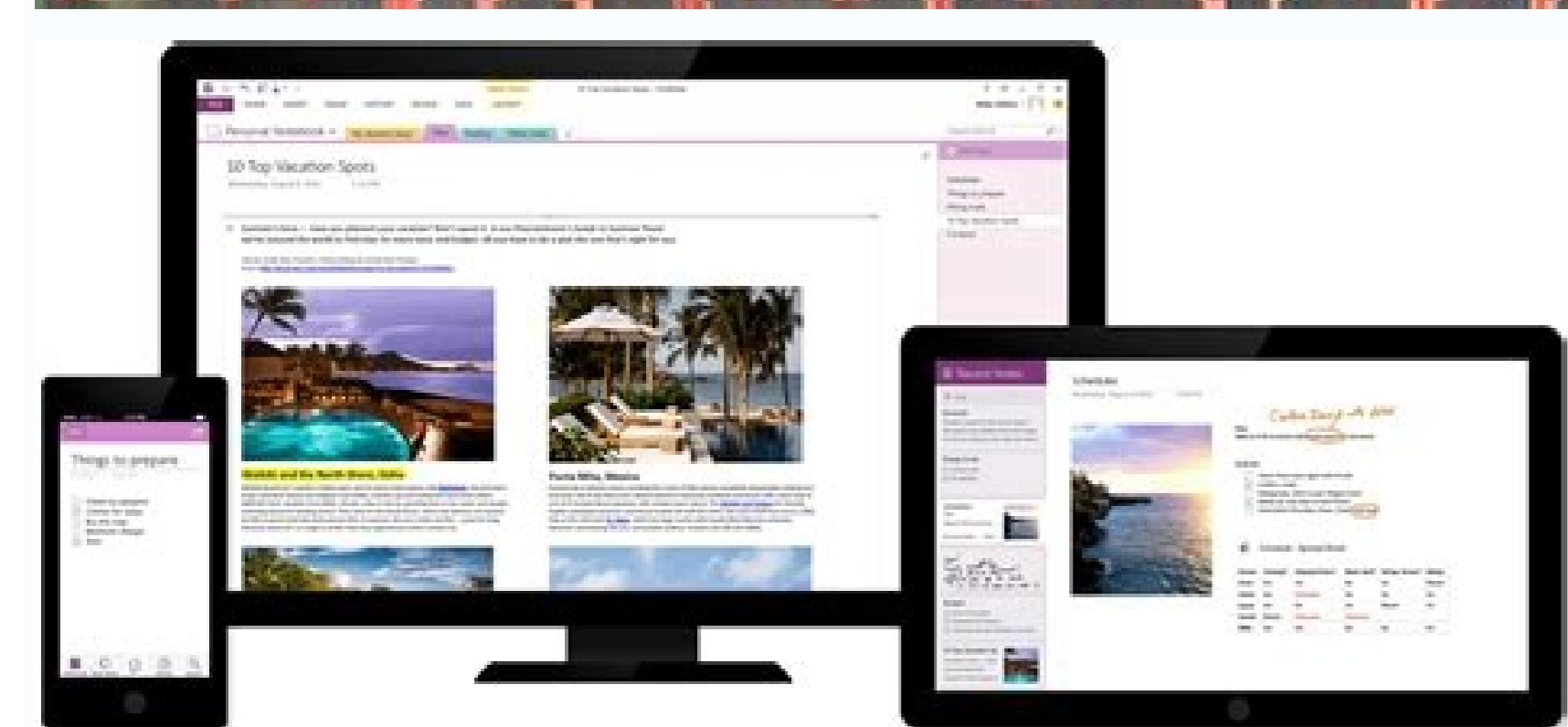
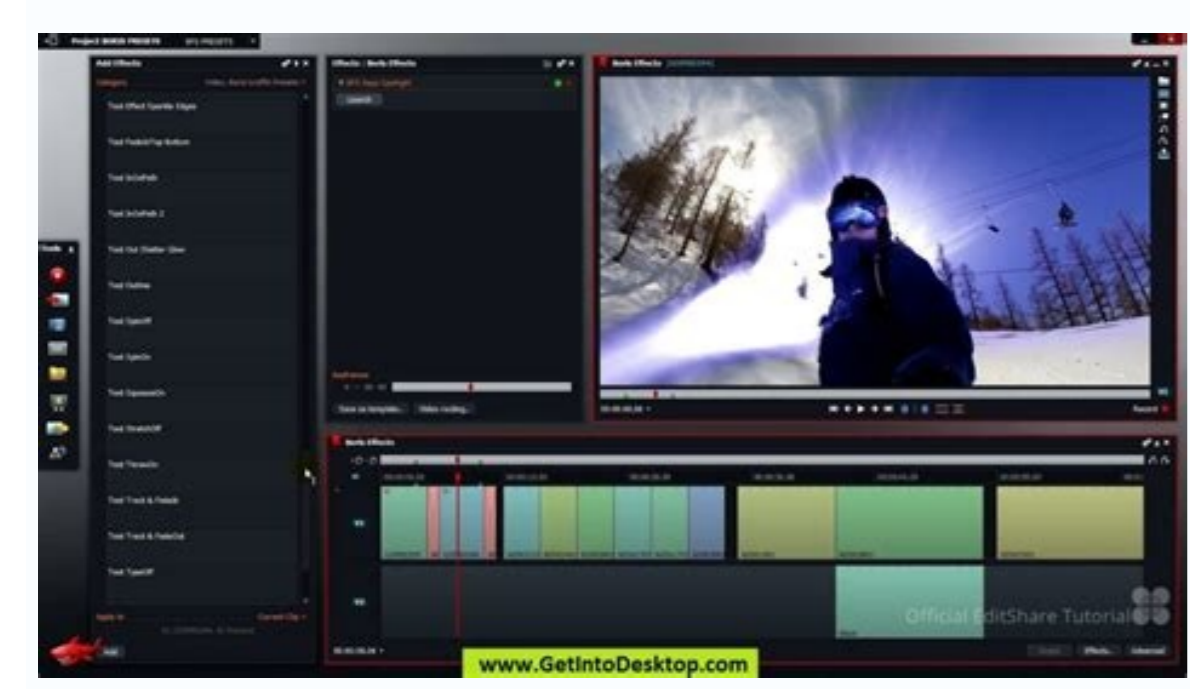
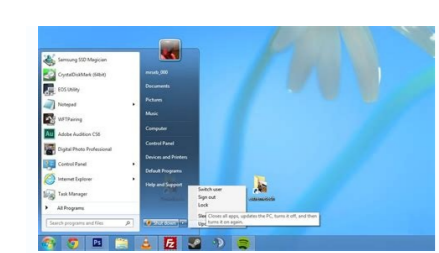


## Java 8 offline installer

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JDK 11.0.16 checksum Page 2 Filename Checksum jdk-8u341-linux-aarch64.rpm sha256: 3e0a17028657e3a85a41b636fe6ce1e32343a91e43cc1b2f88146823e7713fmd5: 5a750e5a4bcc626b04b29ece3d5c02cd jdk-8u341-linux-aarch64.tar.gz sha256: 8ad15e377256fbf103243e99010d4a24376a40e8e7c70b200f4476c333d2fd9bmd5: 581d9e13cdd4bd32a532a9bbc31ae792 jdk-8u341-linux-arm32-vfp-hflt.tar.gz sha256: 6dec09bd213bf97bcab99e54881a8f5f3911e771f8843470fe384520c0249c33md5: ef25220b8f9823b88ec104b6ce61c4aa jdk-8u341-linux-i586.rpm sha256: 41cbe06f65cc9ea534fcd60ea545f7e8a3ebf3bc68c468899a33a6f6ca0e5875md5: 1be7cb2578652c5349fe3070ae7ce973 jdk-8u341-linux-i586.tar.gz sha256: 6beb8997121c771b9d69742f2be583f566736e517d8afa5d91b371c729e515damd5: 5c1096b13ae6b671d807d4577aa3fe4 jdk-8u341-linux-x64.rpm sha256: 157f3e98bb65009ab7935fe9f9cad023c658442541989193429f5ba67af4199d5md5: 76ad0f665d42344c0db140747d057443 jdk-8u341-linux-x64.tar.gz sha256: e98e57cfc6ac9947d9aa9a31c5878d52e2bf64f8d90f20eec08f3c3fcae0e7md5: 84d9c1dd1617cbeac7e00f8945c8581 jdk-8u341-macosx-x64.dmg sha256: 95c5f251c6c9e71741b9157e4f616e18b2657f57e4ad258cc6004c14c64bbe4e6md5: 1e967f05f4f0fb0b99664c6353cd95d6 jdk-8u341-solaris-sparcv9.tar.gz sha256: 49147b0425a01c5047c8076169771807fba4f0ce1726ff6d16952dffe206141md5: c69f0795e57a8f139813c283773a8301 jdk-8u341-solaris-sparcv9.tar.Z sha256: 3cac72de2ca4e9864adc635de7945d469cc553b7d66ebd0e8d0d6a45f0b6md5: 081a7724477606fd4bce0520089ff4 jdk-8u341-solaris-x64.tar.gz sha256: 06a25104c7bc0548d922f2082946fab17651652578a9e9562f6fcaea0c0md5: 7773af30c7815b727774c13864eae8f1 jdk-8u341-solaris-x64.tar.Z sha256: d87349cc176e592a4d9f9f5bd81d792e5afe91d1fea5bb10e38ed5cd111b11md5: e3b961214bf48a723f3d3666c69b983d jdk-8u341-windows-i586.exe sha256: cbedb7f0d9fe275d7f33accc3866b4c2a7cf8a2d78b0a8ca0670af2cb6a13bmd5: 60fbac9ed2bbc3128078e1297e8c5c33 jdk-8u341-windows-x64.exe sha256: 64c7f56a7085053e0fa895efcb044c82a2015807aa269e4dd873906b9f95d75md5: 425b2ea6bd5272f695e121dbe45804 jre-8u341-linux-i586.rpm sha256: a24a5c30076c0b0a708ad87fd3cf8f34069422084e8874f05d436f0df9ab4629md5: ed2a911c5265c223a8ffe7e47ab649e1 jre-8u341-linux-i586.tar.gz sha256: 8329f520ecf53bc17f179f099071d6632dfb35bb783b8e0a113edd1f168f7d4md5: d726f64ac69a0f65f3ab24c232647ea9 jre-8u341-linux-x64.rpm sha256: 4de6ef0ab837c906a7af1d3d43bd4ec8a0ee7fba4e7429e5f6fe5d3ecb76e0md5: 2299fb039238c6426df6bc54cd2aad0 jre-8u341-linux-x64.tar.gz sha256: 61027e8ca9b1921f115dd4983c3f9ebe8785ee2c201d9cd2b870184460f1704md5: bd7de42363bab70a07b32b643c3baab3 jre-8u341-macosx-x64.dmg sha256: cf123005f5d90850db93d4cac9d98ada78b134671a3679eac6643d91a8e2350md5: f39b35bebbb7f8ee03af8263cc24bd05 jre-8u341-macosx-x64.tar.gz sha256: 95abce03af2f406aac2c71752e95ef4abc8934f1699a40438432230870e1d1md5: 8ec39beb089878e0597ccd1268093214 jre-8u341-solaris-sparcv9.tar.gz sha256: 18003ea4bc6f21007fa57f853de963501779c72ebf3bdc9612f9678e59c4d5ee2md5: ea35097472aaae54c875261c7f2aca3 jre-8u341-solaris-x64.tar.gz sha256: 7d5289176ec41e757f8e4f37bd95ecdeff63e429dd043a0aa9b47ad7ea135md5: d7176230bf14504cc787182855ed1a81 jre-8u341-windows-i586.exe sha256: 971768b4cf54eed2869cd5c3b3253c55aa561ec1806f9f26fe052ca99c63md5: b51264700742bd0ecb3471f5e327ba29 jre-8u341-windows-i586-iftw.exe sha256: 826401a098ca4292cc2bbe3240774a9af80c0f74766f5b7535f5c6775e5amd5: 14230db48c21829c9611cc260342ec jre-8u341-windows-i586.tar.gz sha256: 11c85d169b53711f8065bd8188be3c32dd17cda8ef6c36e2ba42713303md5: 092111c1be003ca1d7a6f2175829377 jre-8u341-windows-x64.exe sha256: 78f9ceb4517a838138bedc8651e84f6a576b43f9e84f18b0b02e3b84c7208e02md5: 4b1dcc385b4efc8b5e51343210e423a2 jre-8u341-windows-x64.tar.gz sha256: 7cea08fd64cc945485b8951f96810fc996298d71b3f24bb1e9a408c0826a424md5: 3da30bbfbc5ba7ef08760fc78b8d691d server-jre-8u341-linux-x64.tar.gz sha256: 71c5ef1d73737e324b5aff91a0603f6a9698006132d788df11ea6883b5d3b1bmd5: 065f6e5fa994d6885377164de46dac2b server-jre-8u341-solaris-sparcv9.tar.gz sha256: a799aaee9f2172236d916c608ecd11c2e8e4eaba6a039ea0bac0356c9243348md5: 03191b71f21dbd0e812c7f62789d90c server-jre-8u341-solaris-x64.tar.gz sha256: 08bfd448d908a9fcd93f90ac46adc71b9abb19b23d7cbb41f6449ce9638f9md5: fc0dd7d885698b9d82103e909d1751e2 server-jre-8u341-windows-x64.tar.gz sha256: 9eb5ca0a7a729d78de814ecd614d1429d9a3b360c82d02bfc9599da0eae149a5md5: 9b3a9469139270e66063146bb2547bf4 On Linux use the sha256sum or md5sum command line utilities to verify the integrity of the downloaded file. On OS X use the shasum -a 256 or md5 command line utilities to verify the integrity of the downloaded file See the following articles for guidance on how to verify these checksums on other platforms: It's also integral to the intranet applications and other e-business solutions that are the foundation of corporate computing. Installing this update will ensure that your Java applications continue to run as safely and efficiently as always. The JRE is the Java Runtime Environment, it covers most end-users needs. Contains everything required to run Java applications on your system. It is a package of everything necessary to run a compiled Java program, including the Java Virtual Machine (JVM), the Java Class Library, the Java command, and other infrastructure. However, it cannot be used to create new programs. The JDK is the Java Development Kit, the full-featured SDK for Java. It has everything the JRE has, but also the compiler (javac) and tools (like javadoc and jdb). It is capable of creating and compiling programs. Usually, if you only care about running Java programs on computer you will only install the JRE. It's all you need. On the other hand, if you are planning to do some Java programming, you need to install the JDK instead. Sometimes, even if you are not planning to do any Java development on a computer, you still need the JDK installed. For example, if you are deploying a web application with JSP, you are technically just running Java programs inside the application server. Why would you need the JDK then? Because the application server will convert JSP into Java servlets and needs to use the JDK to compile the servlets. What's New client-libs/2d → Marlin Renderer in JDK 8u Starting from version 8u311, the Marlin graphics rasterizer and its artifacts will be built and distributed as a part of the JDK/JRE bundles. It is not the default rendering engine, however there is an option to enable it by setting the following system property: sun.java2d.renderer=sun.java2d.marlin.MarlinRenderingEngine core-libs/java.io.serialization → Context-specific Deserialization Filter Subset Allow applications to configure context-specific and dynamically-selected deserialization filters via a JVM-wide filter factory that is invoked to select a filter for each deserialization stream. The behavior is a strict subset of JEP 415: Context-Specific Deserialization Filters to allow a filter factory to be configured using a property configured on the command line or in the security properties file. The behavior is opt-in based on the presence of the jdk.serialFilterFactory system property on the command line or the jdk.serialFilterFactory security property. If set, the JVM-wide filter factory selects the filter for each stream when the stream is constructed and when a stream-specific filter is set. The JVM-wide filter factory is a java.util.function.BinaryOperator function invoked when each ObjectInputStream is constructed and when the stream-specific filter is set using sun.misc.ObjectInputFilter.Config.setObjectInputFilter(sun.misc.ObjectInputFilter). The parameters are the current filter and a requested filter and the function returns the filter to be used for the stream. When invoked from the ObjectInputStream constructors, the first parameter is null and the second parameter is the static JVM-wide filter. When invoked from sun.misc.ObjectInputFilter.Config.setObjectInputFilter(sun.misc.ObjectInputFilter), the first parameter is the filter currently set on the stream (which was set in the constructor), and the second parameter is the filter requested. A typical filter factory should use or merge the static JVM-wide filter with other application and context specific filters and the stream-specific filter, if one is set on the stream. The filter factory implementation can also use any contextual information at its disposal, for example, extracted from the application thread context, or its call stack, to compose and combine a new filter. It is not restricted to only use its two parameters. Previous release notes Allow SASL Mechanisms to Be Restricted A security property named jdk.sasl.disabledMechanisms has been added that can be used to disable SASL mechanisms. Any disabled mechanism will be ignored if it is specified in the mechanisms argument of Sasl.createSaslClient or the mechanism argument of Sasl.createSaslServer. The default value for this security property is empty, which means that no mechanisms are disabled out-of-the-box. SunPKCS11 Provider Upgraded with Support for PKCS#11 v2.40 The SunPKCS11 provider has been updated with support for PKCS#11 v2.40. This version adds support for more algorithms such as the AES/GCM/NoPadding cipher, DSA signatures using SHA-2 family of message digests, and RSASSA-PSS signatures when the corresponding PKCS11 mechanisms are supported by the underlying PKCS11 library. New Checks on Trust Anchor Certificates New checks have been added to ensure that trust anchors are CA certificates and contain proper extensions. Trust anchors are used to validate certificate chains used in TLS and signed code. Trust anchor certificates must include a Basic Constraints extension with the cA field set to true. Also, if they include a Key Usage extension, the keyCertSign bit must be set. A new system property named jdk.security.allowNonCaAnchor has been introduced to restore the previous behavior, if necessary. If the property is set to the empty String or "true" (case-insensitive), trust anchor certificates can be used if they do not have proper CA extensions. The default value of this property, if not set, is "false". Note that the property does not apply to X.509 v1 certificates (since they don't support extensions). This property is currently used by the JDK implementation. It is not guaranteed to be supported by other Java SE implementations. Exact Match Required for Trusted TLS Server Certificate A TLS server certificate must be an exact match of a trusted certificate on the client in order for it to be trusted when establishing a TLS connection. Added LuxTrust Global Root 2 Certificate The following root certificate has been added to the cacerts truststore: + LuxTrust + luxtrustglobalroot2ca DN: CN=LuxTrust Global Root 2, O=LuxTrust S.A., C=LU Bug Fixes: Support for OpenType CFF Fonts Previously, Oracle JDK 8 did not include OpenType CFF fonts (.otf fonts) into the standard logical fonts (such as "Dialog" and "SansSerif"). This resulted in missing glyphs when rendering text. In the most extreme cases where only CFF fonts were installed on the system, a Java exception could be thrown. Several Linux distributions were affected by this issue because they rely on CFF fonts to support some languages, which is common for CJK (Chinese, Japanese, and Korean) languages. Oracle JDK 8 now uses these CFF fonts, and this issue has been resolved. Better Serial Filter Handling The jdk.serialFilter system property can only be set on the command line. If the filter has not been set on the command line, it can be set can be set with java.io.ObjectInputFilter.Config.setSerialFilter. Setting the jdk.serialFilter with java.lang.System.setProperty has no effect. Legacy: If you are looking for previous Java versions here are the links to download:

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