

2. In what ways `getHostName()` differs from `getCanonicalHostName()` ?

`getHostName()` differs from `getCanonicalHostName` are:

<code>getHostName()</code>	<code>getCanonicalHostName()</code>
Returns the simple hostname of the machine.	Returns the fully qualified domain name (FDQN).
Relies on a local name resolution mechanism (e.g., <code>/etc/hosts</code> or local DNS cache	More reliable when working with networked environments.
May return an IP address if the hostname is not resolvable.	Uses DNS resolution to get the official name of the host.
Example: <pre>InetAddress inetAddress = InetAddress.getByN ame("google.com"); System.out.println(inetAddress.getHostName());</pre>	Example: <pre>InetAddress inetAddress = InetAddress.getB yName("google. Com"); System.out.println(inetAdress.getCanonicalH ostName());</pre>