

What technology do I need?

	Product/ Tool	Version	Description	Environment
1.	Eclipse Juno	Juno	<p>Eclipse is a multi-language <u>software development environment</u> comprising a base <u>workspace</u> and an extensible <u>plug-in</u> system for customizing the environment. It is written mostly in <u>Java</u>.</p> <p>It can be used to develop applications in Java and, by means of various plug-ins, other <u>programming languages</u> including <u>Ada</u>, <u>C</u>, <u>C++</u>, and <u>COBOL</u>.</p> <p>Development environments include the Eclipse Java development tools (JDT) for Java and Scala, Eclipse CDT for C/C++ and Eclipse PDT for PHP, among others.</p>	Dev
2.	JBoss Application Server	7.1.1	<p>JBoss Application Server (JavaBeans Open Source Software Application Server) is an application server that implements the Java Platform, Enterprise Edition (Java EE). It supports the following features:</p> <ul style="list-style-type: none"> • Aspect-oriented programming (AOP) support • Clustering • Deployment API • Distributed caching (using JBoss Cache, a standalone product) • Distributed deployment (farming) • Enterprise JavaBeans versions 3 and 2.1 • Failover (including sessions) • Hibernate integration (for persistence programming; Java Persistence API or <u>JPA</u>) • Java Authentication and Authorization Service (JAAS) • Java EE Connector Architecture (JCA) integration • Java Management Extensions 	Dev Test Stage Prod

			<ul style="list-style-type: none"> • Java Message Service (JMS) integration • Java Naming and Directory Interface (JNDI) • Java Transaction API (JTA) • Java Authorization Contract for Containers (JACC) integration • JavaMail • Java Server Faces 1.2 (Mojarra) • Java Server Pages (JSP) / Java Servlet 2.1/2.5 (Tomcat) • JBossWS (JBoss Web Services) for Java EE web services like JAX-WS • JDBC • Load balancing • Management API • OSGi framework • RMI-IIOP (JacORB, contraction of Java and CORBA) • SOAP with Attachments API for Java (SAAJ) 	
3.	JBoss Drools	5.5.0	<p>Drools is a Business Rule Management System (BRMS) with a forward chaining inference based rules engine, more correctly known as a productive rule system, using an enhanced implementation of the Rete algorithm.</p> <p>Drools supports the JSR-94 standard for its business rule engine and enterprise framework for the construction, maintenance, and enforcement of business policies in an organization, application or service.</p>	Dev Test Stage Prod
4.	MySQL	5.6	<p>MySQL is an open source relational database management system (RDBMS) that runs as a server providing multi-user access to a number of databases.</p> <p>MySQL works on many different <u>system platforms</u>, including <u>AIX</u>, <u>BSDi</u>, <u>FreeBSD</u>, <u>HP-UX</u>, <u>eComStation</u>, <u>i5/OS</u>, <u>IRIX</u>, <u>Linux</u>, <u>Mac OS X</u>, <u>Microsoft</u></p>	Dev Test Stage Prod

			<p><u>Windows</u>, <u>NetBSD</u>, <u>Novell NetWare</u>, <u>OpenBSD</u>, <u>OpenSolaris</u>, <u>OS/2 Warp</u>, <u>QNX</u>, <u>Solaris</u>, <u>Symbian</u>, <u>SunOS</u>, <u>SCO OpenServer</u>, <u>SCO UnixWare</u>, <u>Sanos</u> and <u>Tru64</u>. A port of MySQL to <u>OpenVMS</u> also exists.</p>	
5.	JavaServer Faces	2.1	<p>JavaServer Faces technology simplifies building user interfaces for JavaServer applications.</p> <p>Developers of various skill levels can quickly build web applications by: assembling reusable UI components in a page; connecting these components to an application data source; and wiring client-generated events to server-side event handlers.</p>	Dev Test Stage Prod
6.	PrimeFaces	3.5	<p>PrimeFaces is an open source JSF component suite with various extensions.</p> <ul style="list-style-type: none"> • Rich set of components (HtmlEditor, Dialog, AutoComplete, Charts and many more). • Built-in Ajax based on standard JSF 2.0 Ajax APIs. • Lightweight, one jar, zero-configuration and no required dependencies. • Ajax Push support via websockets. • Mobile UI kit to create mobile web applications for handheld devices. • Skinning Framework with 35+ built-in themes and support for visual theme designer tool. • Extensive documentation. • Large, vibrant and active user community. • Developed with "passion" from application developers to application developers. 	Dev Test Stage Prod
7.	Java Persistence API (Hibernate)	4.0.0	<p>Hibernate is an <u>object-relational mapping</u> (ORM) library for the <u>Java</u> language, providing a <u>framework</u> for mapping an <u>object-oriented domain model</u> to a traditional <u>relational database</u>. Hibernate solves <u>object-relational impedance mismatch</u> problems by replacing direct</p>	Dev Test Stage Prod

			<p><u>persistence</u>-related database accesses with high-level object handling functions.</p> <p>Hibernate is <u>free software</u> that is distributed under the <u>GNU Lesser General Public License</u>.</p> <p>Hibernate's primary feature is mapping from Java classes to <u>database tables</u> (and from Java data types to <u>SQL</u> data types). Hibernate also provides data query and retrieval facilities. It also generates the SQL calls and attempts to relieve the developer from manual result set handling and object conversion and keep the application portable to all supported SQL databases with little performance overhead</p>	
8.	OpenAM	10	<p>OpenAM is an <u>open source</u> access management, entitlements and <u>federation</u> server platform.</p> <p>OpenAM is designed in response to legacy access management bundles thrown together via acquisition—with differing architectures, APIs, libraries, user-interfaces, and documentation that pass integration costs and complexity on to customers.</p> <p>OpenAM is the world’s only open source, purpose-built, all-in-one access management platform able to secure and share resources across enterprise, cloud, social, and mobile environments.</p> <p>Unique Benefits :</p> <ul style="list-style-type: none"> • It is the only developer-friendly access management solution to use a single, common programming interface (REST) that’s easy to invoke. • It is the only “All-in-One” Access Management solution that includes Authentication, 	Dev Test Stage Prod

			<p>SSO, Authorization, Federation, Entitlements, Adaptive Authentication, Strong Authentication, and Web Services Security in a single, unified product.</p> <ul style="list-style-type: none"> • OpenAM is based on the Sun OpenSSO codebase for modularity, lightweight flexibility, and massive scalability, available to all. It's an easy way for form. 	
9.	OpenDJ	2.4.6	<p>OpenDJ is a free, open source <u>Lightweight Directory Access Protocol</u> (LDAPv3) and <u>Directory Service Markup Language</u> (DSMLv2) compliant directory service written in the Java programming language. One of the key design principles of the OpenDJ architecture is addressing scalability and performance to deal with high throughput and low latency response requirements. Highly robust replication helps to ensure data availability for consistent, reliable access to identity data at all times. In addition, advanced features such as Assured Replication can be used to guarantee data availability in the event of server failure. For geographically distributed environments, OpenDJ supports WAN-optimized replication for increased bandwidth efficiencies.</p>	Dev Test Stage Prod
10	Maven	3.0.5	<p>Apache Maven is a software project management and comprehension tool. Based on the concept of a project object model (POM), Maven can manage a project's build, reporting and documentation from a central piece of information.</p>	Dev
11	Jenkins	1.502	<p>Jenkins is an <u>open source continuous integration</u> tool written in <u>Java</u>. Jenkins provides continuous integration services for software</p>	Dev

			<p>development. It is a server-based system running in a servlet container such as Apache Tomcat. It supports SCM tools including CVS, Subversion, Git, Mercurial, Perforce and Clearcase, and can execute Apache Ant and Apache Maven based projects as well as arbitrary shell scripts and Windows batch commands.</p>	
12	Sonar	3.4.1	<p>Sonar is an open platform to manage code quality. As such, it covers the 7 axes of code quality:</p> <ul style="list-style-type: none"> • Architecture and Design • Duplications • Unit Tests • Complexity • Potential bugs • Coding rules • Comments 	Dev
13	Rational ClearQuest Web	7.0.1.2	<p>IBM Rational ClearQuest is application lifecycle management (ALM) software that provides flexible change and defect tracking, customizable processes, real-time reporting and lifecycle traceability for better visibility and control of the software development lifecycle. This solution provides scalable, multiplatform support to any size organization, so you can continue to use your customized processes as your organization's needs evolve. Rational ClearQuest supports the IBM AIX, HP-UX, Linux, Sun Solaris and Microsoft Windows operating systems. Rational ClearQuest can improve visibility and control of software development projects.</p> <ul style="list-style-type: none"> • Enhance software quality with built-in defect and change-tracking capabilities. • Customize and automate workflows for greater efficiency and predictability. Develop best practices with the ALM template. 	Test

			<ul style="list-style-type: none">• Simplify compliance management with tools that help you efficiently manage compliance processes and track approvals.• Gain visibility into projects with real-time reports for better decision making.• Leverage enhanced integrations with several other IBM lifecycle products for a complete ALM solution.	
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