WEBSPHERE APPLICATION SERVER V9

What's New

WebSphere Application Server V9
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- Java EE 7

- Java SE 8

- Cloud Ready

- Liberty enhancements

  - Updated features

  - Node.js management

  - New eXtreme Scale package

  - Versioning Scheme change

JAVA EE 7

- WAS V9 is Java EE 7 certified

  - Liberty Profile is Java EE 7 ready since V8.5.5.6 (June 2015)

- Java EE 7 new APIs:

  - Concurrency Utilities

  - Java for JSON

  - WebSockets

JAVA EE 7

- Java EE 7 improvements:

  - Non-blocking I/O in Servlet 3.1

  - Batch (JSR 352) standardise bulk processing

- Java EE 7 updated specs, including:

  - Servlet 3.1, JSP 2.3, JSF 2.2, EJB 3.2

  - JDBC 4.1, JPA 2.1

  - JAX-RS 2.0

JAVA SE 8

- WAS V9 comes with Java SE 8 by default.

- WAS 8.5.5.9 supports Java SE 8 also.

  - This is WAS 8.5.5 updated to FixPack 9.

  - As with Java 7, it needs to be installed as a separate package.

  - Then use `managesdk` to switch using the new JDK.

CLOUD READY

- Docker containers for WAS V9 traditional and Liberty Profile

- IBM Bluemix

    - Liberty app accelerator

    - Game On!

    microservices enablers

- IBM API Connect – Essential edition included

- IBM Cloud and VMware vSphere common models

- Liberty on PaaS: AWS, Azure, OpenShift, Pivotal Cloud Foundry

LIBERTY - FEATURES

z/OS

ND

Core

Web Profile

zosRequestLogging-1.0

| zosSecurity-1.0 | zosTransaction-1.0 | zosLocalAdapters-1.0 | zosWlm-1.0 | zosConnect-1.2 |

| scalingController-1.0 | collectiveController-1.0 | healthManager-1.0 | dynamicRouting-1.0 |
| scalingMember-1.0 | clusterMember-1.0 | healthAnalyzer-1.0 | |

mediaServerControl-1.0

jmsMdb-3.2		sipServlet-1.0	ejbHome-3.2	rtcommGateway-1.0
batch-1.0	appClientSupport-1.0	javaeeClient-7.0	rtcomm-1.0	wsAtomicTransaction-1.2
ejb-3.2	j2eeManagement-1.1	ejbPersistentTimer-3.2	jacc-1.5	ejbRemote-3.2
wsSecurity-1.1	wasJmsServer-1.0	mongodb-2.0	jaspic-1.1	jms-2.0
jaxb-2.2	wmqJmsClient-2.0	wsSecuritySaml-1.1	mdb-3.2	jcaInboundSecurity-1.0
jaxws-2.2	wasJmsClient-2.0	wasJmsSecurity-1.0	couchdb-1.0	jca-1.7

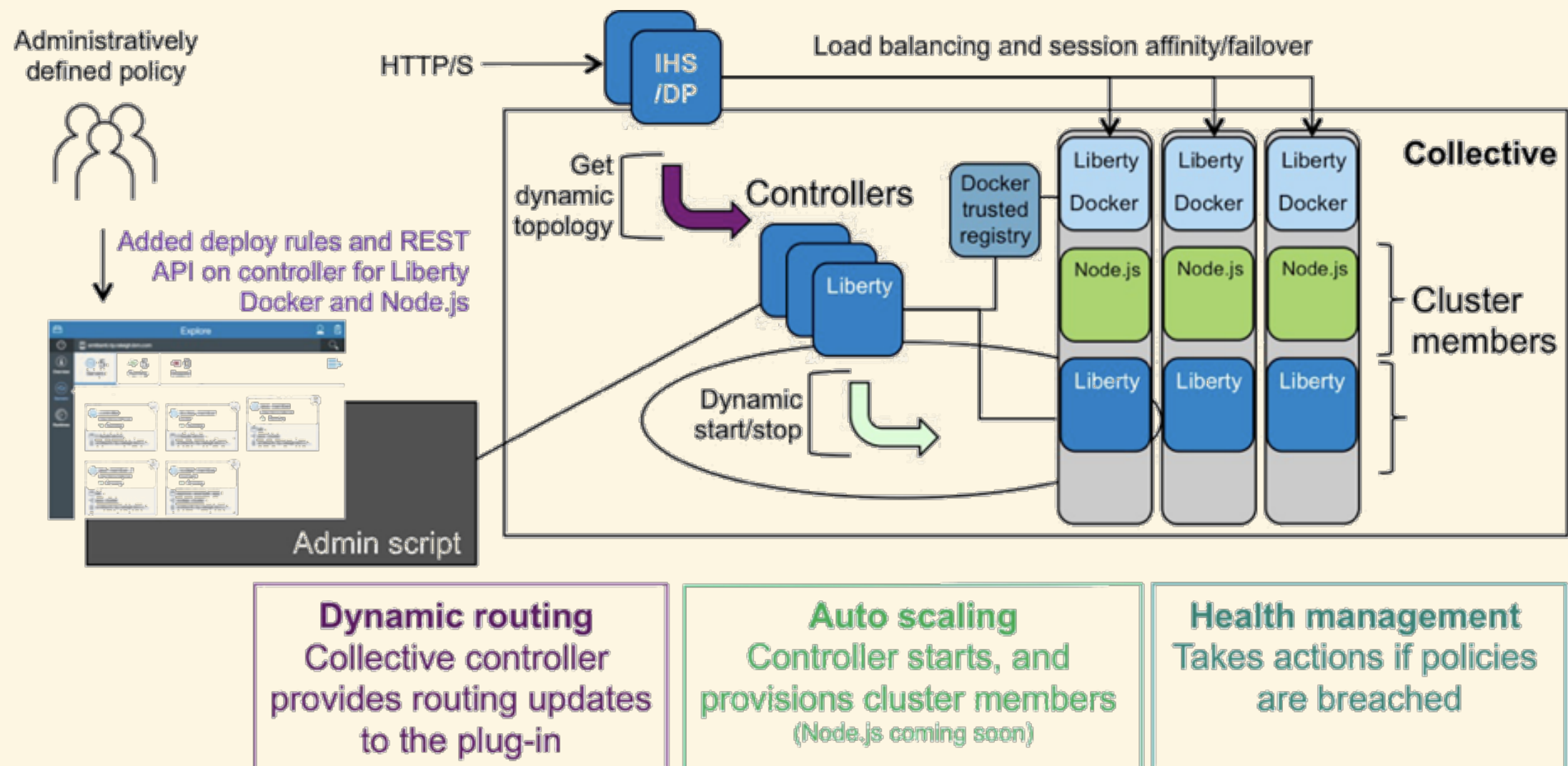| javaMail-1.5 | ldapRegistry-3.0 | eventLogging-1.0 | | apiDiscovery-1.0 |
oauth-2.0	collectiveMember-1.0	osgiConsole-1.0		adminCenter-1.0
json-1.0	restConnector-1.0	requestTiming-1.0	samlWeb-2.0	osgiAppIntegration-1.0
concurrent-1.0	monitor-1.0	timedOperations-1.0	bells-1.0	openid-2.0
wab-1.0	sessionDatabase-1.0	webCache-1.0	scim-1.0	openidConnectClient-1.0
blueprint-1.0	serverStatus-1.0	distributedMap-1.0	spnego-1.0	openidConnectServer-1.0
osgiBundle-1.0	httpWhiteboard-1.0	passwordUtilities-1.0		federatedRepository-1.0
		bluemixUtility-1.0		constrainedDelegation-1.0
				logstashCollector-1.0
ejbLite-3.2	jdbc-4.1	ssl-1.0		
jsf-2.2	jndi-1.0	beanValidation-1.1	jaxrs-2.0	jaxrsClient-2.0
jsp-2.3	appSecurity-2.0	cdi-1.2	webSocket-1.1	webSocket-1.0
servlet-3.1	managedBeans-1.0	jpa-2.1	el-3.0	jsonp-1.0

LIBERTY – NODE.JS MANAGEMENT

- Liberty Collective Controller can manage Node.js servers.

LIBERTY – EXTREME SCALE

- WebSphere eXtreme Scale Liberty Deployment (XSLD) 8.6.1 is a new package included in WAS V9.

- XSLD improves the management of scalable, in-memory data grids and caching through a GUI and a REST interface.

LIBERTY - VERSIONING SCHEME

- As Liberty is evolution is faster than traditional WAS, a different versioning scheme is used.

year . release . modlevel . fixpack

FURTHER READING & REFERENCES

- Traditional WebSphere or Liberty: how to choose?

- Download the Latest Stable WebSphere Liberty runtime