Spring

1.          spring?

Spring       java                                    Spring

                    Java

J2EE          web              Spring                      Java

                                        POJO


2.          Spring

- Spring                                        2MB

- Spring


- (AOP)    Spring


- Spring


- MVC          Spring    WEB

      Web

- Spring


                                        JTA

- Spring                API

            JDBC    Hibernate or JDO

            unchecked

3. Spring                    ?

　　　Spring

- Core module

- Bean module

- Context module

- Expression Language module

- JDBC module

- ORM module

- OXM module

- Java Messaging Service(JMS) module

- Transaction module

- Web module

- Web-Servlet module

- Web-Struts module

- Web-Portlet module

4.                              )

　　　　Spring                spring

　　BeanFactory              spring

　　Spring                                        Spring


5. BeanFactory – BeanFactory

Bean

BeanFactory          XmlBeanFactory

6. XMLBeanFactory

org.springframework.beans.factory.xml.XmlBeanFac
tory              XML                          beans

XML

7.          AOP

AOP                              Spring

AOP                                Spring

AOP

Spring

8.      JDBC        DAO

JDBC        DAO

Spring      AOP          Spring

9.          /

Spring                    ORM                                        JDBC

                    /                    (ORM)            Spring

                    ORM                    Hiberate,JDO

    iBATIS SQL Maps    Spring

        ORM            JDBC

10.            WEB

Spring    WEB                            application context

                                web

                        web



                    Jakarta Struts

12.  Spring

Spring                            XML



13.                Spring IOC

Spring IOC

    DI



14.  IOC

IOC

                                        JNDI

IOC

15. ApplicationContext                    ？

- FileSystemXmlApplicationContext

    XML            beans            XML Bean


- ClassPathXmlApplicationContext

    XML                beans

    classpath                    classpath        bean


- WebXmlApplicationContext                    XML

                        WEB                bean

    16. Bean            Application contexts


    Application contexts



                        bean


                            bean

                    Application contexts

                Application contexts

    MessageSource

17. Spring

- 

- Setter getter

- Spring AOP

- Spring XML

- 

18. Spring

IOC

IOC

19. IOC

- 

- Setter Setter

static bean

bean setter setter

20.

Setter

Setter

setter

Spring Beans

21. Spring beans?

Spring beans Spring java

Spring IOC

beans XML

Spring beans beans

bean tag "singleton"

TRUE bean

prototype bean TRUE Spring

beans

22. Spring Bean

Spring Bean

bean

23. Spring ?

Spring

XML

java

24. ?

<bean> Spring

bean                              bean

scope                         Spring

bean          bean      scope

prototype                    bean

bean      scope

singleton

25.      Spring          bean

Spring              bean

- singleton : bean        Spring ioc


- prototype        bean
- request          http                    bean

web      Spring ApplicationContext

- session          HTTP Session          bean

          web

   Spring ApplicationContext

- global-session                  HTTP Session

      bean                        web

   Spring ApplicationContext

          Spring bean            Singleton.

   26. Spring          bean                ?

          Spring          bean

   27.       Spring        bean

- Spring        XML          bean

      bean

- Spring      bean

-    bean          BeanNameAware        Spring

      bean    ID    setBeanName

-    Bean          BeanFactoryAware        Spring

      beanfactory    setBeanFactory

-             bean          BeanPostProcessors

   Spring        postProcesserBeforeInitialization()

- bean     IntializingBean

  afterPropertySet     bean


- BeanPostProcessors     bean     bean

  postProcessAfterInitialization()

- bean     DisposableBean

  destroy()

  28.     bean



  bean     setup

  bean

  teardown

  The bean     init-method

  destroy-method

  @PostConstruct

  @PreDestroy

  29.     Spring     bean

  bean     bean

  bean     inner bean     Spring

  XML     &lt;property/&gt;

  &lt;constructor-arg/&gt;     &lt;bean/&gt;

bean                                    Scope

prototype

30.      Spring                        java

Spring

- <list>

- <set>

- <map>

- <props>

String

31.            bean      ?

            bean                Spring              bean

                                    bean

32.            bean

Spring                                        bean

            <constructor-arg>   <property>

    Bean                    bean

33.

                                    Spring

- no

  ref

- byName　　　　　　　　　　Spring

  　　　　　bean　autowire　　　　byname

  　　　　　　　　bean

  　　bean

- byType:　　　　　　　　Spring

  　　　　　bean　autowire　　　byType

  　　　　　　　　bean

  　　bean　　　　　bean

- constructor　　　　　byType

- autodetect　　　　　constructor

  　　　　　　byType

  34.　　　　　　　?

- 　　　　　　&lt;constructor-arg&gt;　&lt;property&gt;

- 

  　　　String

•

35.　　　　　Spring　　　　　null



Spring

36.　　　　　　Java　Spring　　　　?

　　　　　.

　　Java　　　　　　　　　　Java

　　　　　　　Spring　　　　　　XML

　　@Configuration

　　　bean　　　　　　Spring IOC

　　　@Bean

　　　　bean　　　　Spring

37.　　　　　　　　　　　　?

　　　XML





　　　　　　　　　　　　　　　xml

bean

38.

Spring

<context:annotation-config/>

39. @Required

bean

bean

@Required          bean

BeanInitializationException

40. @Autowired

@Autowired

@Required

setter                                              /

PN

41. @Qualifier

bean

@Qualifier          @Autowire

bean

Spring

42.   Spring                                          JDBC?

SpringJDBC

statements        queries

JDBC              Spring

JdbcTemplate                    here

43. JdbcTemplate

JdbcTemplate

44. Spring    DAO

Spring                        DAO

                JDBC    Hibernate or JDO

45.        Spring                        Hibernate?

      Spring                      Hibernate
- Hibernate Template    Callback
- HibernateDAOSupport            AOP

46. Spring           ORM

Spring            ORM
- Hibernate
- iBatis
- JPA (Java Persistence API)
- TopLink
- JDO (Java Data Objects)

- OJB

47. HibernateDaoSupport Spring Hibernate

Spring SessionFactory LocalSessionFactory

- the Hibernate SessionFactory

- HibernateDaoSupport DAO

- AOP

48. Spring

Spring

- 

- 

XML

49. Spring

- API JTA JDBC Hibernate JPA JDO

- API

API

- 

- Spring

50.

Spring

Spring                    AOP

51.        AOP

                    AOP

52. Aspect

AOP

                              API

                          AOP

                              Spring AOP

              @Aspect

52.      Spring AOP

54.

AOP

Spring AOP

55.

SpringAOP

Spring

- before

- after:


- after-returning:

- after-throwing:

- around:

56.




57.                    ?


58.                         ?

advised

59. ?

60.

BeanNameAutoProxyCreator

DefaultAdvisorAutoProxyCreator

Metadata autoproxying

61.

62. XML Schema

XML

63.

( @AspectJ )

java5 java

Spring MVC

64. Spring MVC

Spring Web MVC

Spring MVC

Struts Spring MVC

## 65. DispatcherServlet

Spring MVC DispatcherServlet

HTTP

## 66. WebApplicationContext

WebApplicationContext ApplicationContext

WEB

ApplicationContext

servlet

## 67. Spring MVC

Spring

## 68. @Controller

Spring

Servlet API

## 69. @RequestMapping

URL