

WebLogic Monitoring with Datadog Agent

Changes on Weblogic Servers:

- JMX Remote Monitoring will be enabled
- Djavax.management.builder.initial=weblogic.management.jmx.mbeanserver.WLSMBeanServerBuilder will be enabled
- We will verify PlatformMBeanServerUsed attribute value is set to true
- We will restart the weblogic servers

Datadog agents:

- weblogic.d/conf.yaml will be enabled and updated
- Metric listed below will be added for monitoring.
- We will restart the datadog agents
- If we have datadog log subscription, we will start collecting and parsing weblogic logs then create monitors and alert.
- We will create a dashboard.

```
jmx_metrics:
  - include:
    domain: com.bea
    bean_regex: com.bea:Name=([-/.\w]+),Type=ServerRuntime
    attribute:
      OpenSocketsCurrentCount:
        alias: weblogic.server_runtime.open_sockets
  - include:
    domain: com.bea
    bean_regex: com.bea:Name=([-/.\w]+),Type=Server
    attribute:
      ThreadPoolsCurrentCount:
        alias: weblogic.server.threadpool_socket_readers_percent
      MaxOpenSockCount:
        alias: weblogic.server.max_open_sockets
```

```
- include:
  domain: com.bea
  bean_regex: com.bea:ServerRuntime=([-/.\w]+),Name=([-/.\w]+),ApplicationRuntime=([-/.\w]+),Type=ServletRuntime,WebAppComponentRuntime=([-/.\w]+)
  attribute:
    ExecutionTimeHigh:
      metric_type: monotonic_count
      alias: weblogic.servlet_runtime.exec_time_high
    ExecutionTimeTotal:
      metric_type: monotonic_count
      alias: weblogic.servlet_runtime.exec_time_total
    ExecutionTimeLow:
      alias: weblogic.servlet_runtime.exec_time_low
    ReloadTotalCount:
      alias: weblogic.servlet_runtime.reloads_total
    PoolMaxCapacity:
      alias: weblogic.servlet_runtime.pool_max_capacity
- include:
  domain: com.bea
  bean_regex: com.bea:ServerRuntime=([-/.\w]+),Name=([-/.\w]+),ApplicationRuntime=([-/.\w]+),Type=WebAppComponentRuntime
  attribute:
    OpenSessionsCurrentCount:
      alias: weblogic.webapp_component_runtime.sessions_current
```

```
- include:
  domain: com.bea
  bean_regex: com.bea:ServerRuntime=( [-.\w]+ ),Name=ThreadPoolRuntime,Type=ThreadPoolRuntime
  attribute:
    CompletedRequestCount:
      alias: weblogic.threadpool_runtime.completed_requests
      metric_type: monotonic_count
    ExecuteThreadIdleCount:
      metric_type: gauge
      alias: weblogic.threadpool_runtime.execute_threads_idle
    ExecuteThreadTotalCount:
      alias: weblogic.threadpool_runtime.execute_threads_total
    PendingUserRequestCount:
      metric_type: gauge
      alias: weblogic.threadpool_runtime.user_requests_pending
    HoggingThreadCount:
      alias: weblogic.threadpool_runtime.threads_hogging
    OverloadRejectedRequestsCount:
      alias: weblogic.threadpool_runtime.overload_rejected_requests
    QueueLength:
      alias: weblogic.threadpool_runtime.queue_length
    SharedCapacityForWorkManagers:
      alias: weblogic.threadpool_runtime.shared_capacity_work_managers
    StandbyThreadCount:
      alias: weblogic.threadpool_runtime.threads_standby
    StuckThreadCount:
      alias: weblogic.threadpool_runtime.threads_stuck
    Throughput:
      alias: weblogic.threadpool_runtime.throughput
```

```
- include:
  domain: com.bea
  bean_regex: com.bea:ServerRuntime=( [-.\w]+ ),Name=( [-./.\w]+ ),Type=JVMRuntime
  attribute:
    HeapSizeCurrent:
      alias: weblogic.jvm_runtime.heap_size
    HeapFreeCurrent:
      alias: weblogic.jvm_runtime.heap_free
    HeapFreePercent:
      alias: weblogic.jvm_runtime.heap_free_percent
    HeapSizeMax:
      alias: weblogic.jvm_runtime.heap_size_max
- include:
  domain: com.bea
  bean_regex: com.bea:ServerRuntime=( [-.\w]+ ),Name=( [-./.\w]+ ),ApplicationRuntime=( [-.\w]+ ),Type=ConnectorConnectionPoolRuntime,ConnectorComponentRuntime=( [-.\w]+ )
  attribute:
    ActiveConnectionsCurrentCount:
      alias: weblogic.connector_connection_pool_runtime.connections_active
    FreeConnectionsCurrentCount:
      alias: weblogic.connector_connection_pool_runtime.connections_free
    ConnectionsCreatedTotalCount:
      metric_type: monotonic_count
      alias: weblogic.connector_connection_pool_runtime.connections_created_total
```

```
- include:
  domain: com.bea
  bean_regex: com.bea:ServerRuntime=( [-.\w]+),Name=( [-/.\w]+),Type=JMSRuntime
  attribute:
    ConnectionsCurrentCount:
      alias: weblogic.jms_runtime.connections_current
    ConnectionsTotalCount:
      metric_type: monotonic_count
      alias: weblogic.jms_runtime.connections_total
    JMSServersCurrentCount:
      alias: weblogic.jms_runtime.jms_servers
    JMSServersTotalCount:
      metric_type: monotonic_count
      alias: weblogic.jms_runtime.jms_servers_total
- include:
  domain: com.bea
  bean_regex: com.bea:ServerRuntime=( [-.\w]+),Name=( [-/.\w]+),ApplicationRuntime=( [-.\w]+),Type=WorkManagerRuntime
  attribute:
    CompletedRequests:
      alias: weblogic.work_manager_runtime.requests_completed
      metric_type: monotonic_count
    PendingRequests:
      alias: weblogic.work_manager_runtime.requests_pending
    StuckThreadCount:
      alias: weblogic.work_manager_runtime.threads_stuck
```

```
- include:
  domain: com.bea
  bean_regex: com.bea:ServerRuntime=( [-.\w]+),Name=( [\[-/.\.\]\w]+),Type=ServerChannelRuntime
  attribute:
    AcceptCount:
      alias: weblogic.server_channel_runtime.sockets_accepted
      metric_type: monotonic_count
    ConnectionsCount:
      alias: weblogic.server_channel_runtime.connections_active
    BytesReceivedCount:
      alias: weblogic.server_channel_runtime.bytes_received
      metric_type: monotonic_count
    BytesSentCount:
      alias: weblogic.server_channel_runtime.bytes_sent
      metric_type: monotonic_count
    MessagesReceivedCount:
      alias: weblogic.server_channel_runtime.messages_received
      metric_type: monotonic_count
    MessagesSentCount:
      alias: weblogic.server_channel_runtime.messages_sent
      metric_type: monotonic_count
```