Infrastructure changes from 11g to 12c

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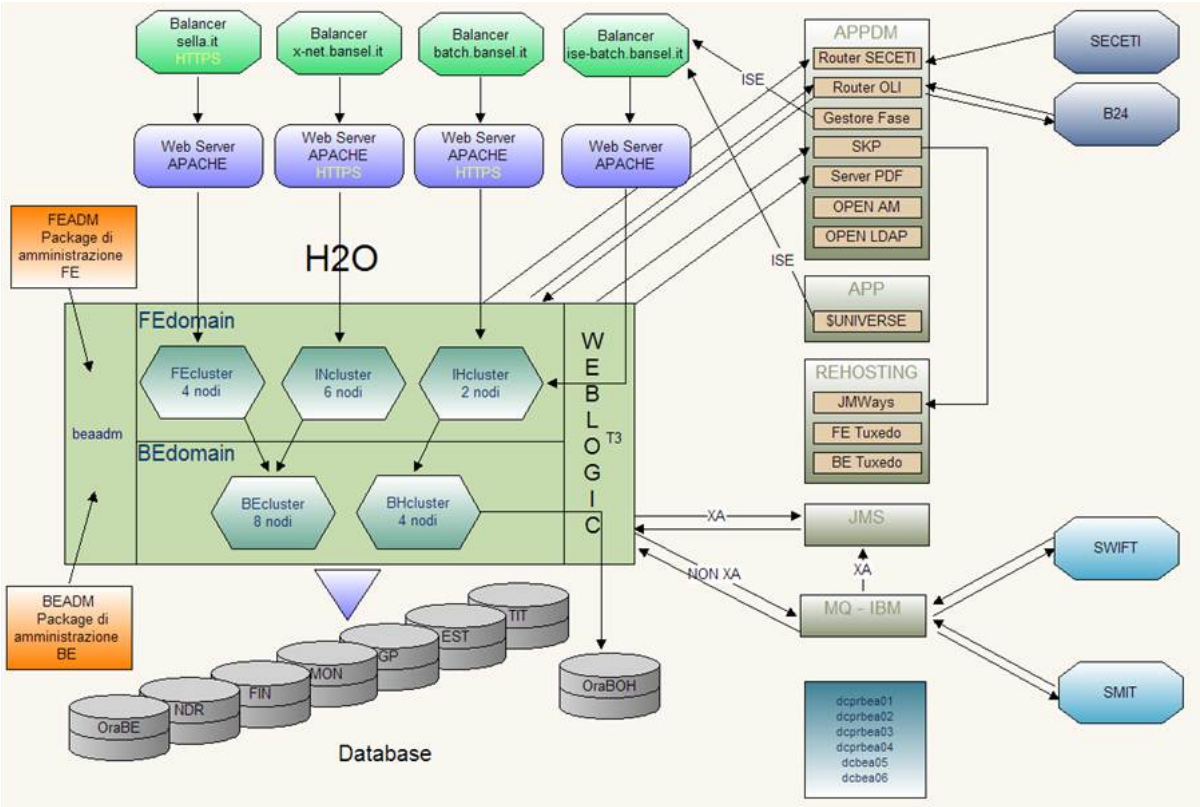
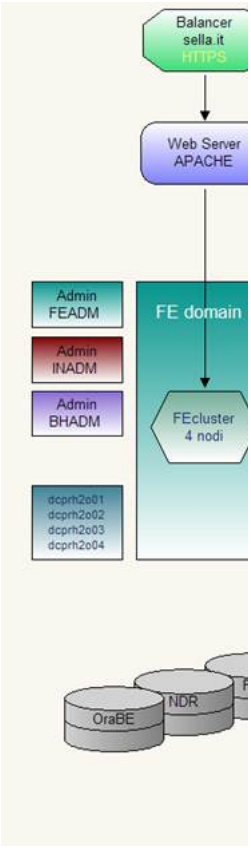
Infrastructure changes for H2O cluster(s)

Migration of H2O cluster from 11g to 12c is one of the biggest milestone from the infrastructure point of view, as H2O clusters are generally customized and bound to some needs of our in-house framework to work with industry technologies/frameworks. One of the most notable change in the infrastructure is the collapsing of FrontEnd and BackEnd. The BackEnd clusters will be merged on the FrontEnd clusters producing Internet, Intranet and Batch cluster for the respective application(s). Detail with respect to these infrastructure changes and much more relating to node count per cluster and the interactions are detailed in the picture below.

11g App Server Infra

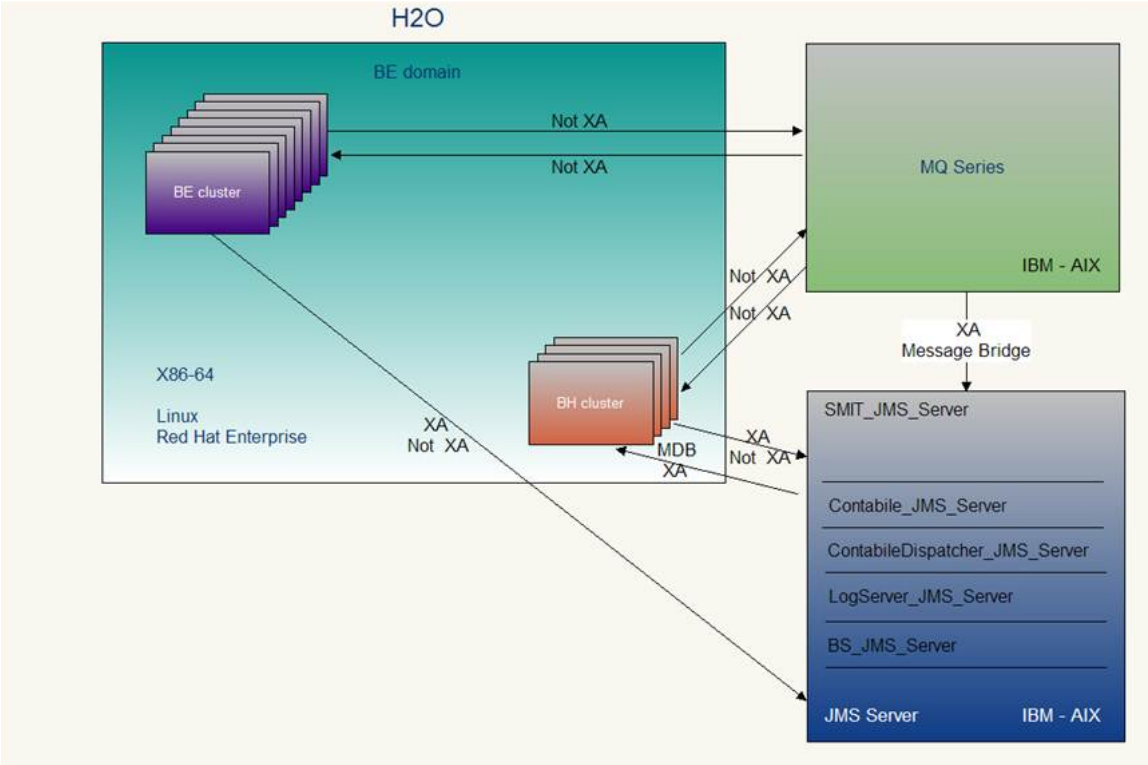


12c App Server Infra

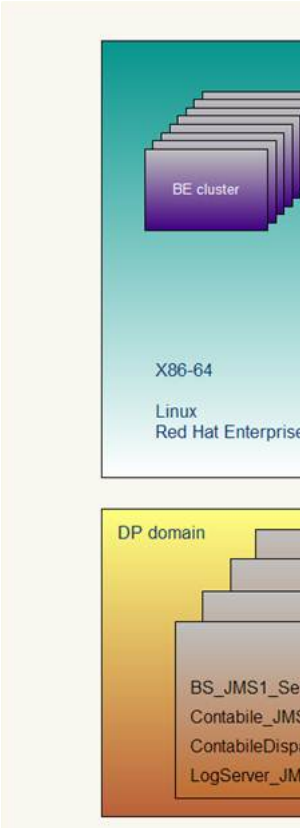


Also, with respect to JMS there are quite changes. A dedicated cluster is left out for SMIT to manage the JMS part of SMIT interacting with MQ. The other JMS needs are moved to JMS cluster targeted under DP domain.

11g JMS Infra



12c JMS Infra



From the point of view of build and distribution system there are changes required in H2O Build 2.0 application configurations. The required changes pertaining to this are detailed in H2O Build 2.0 Guidelines

Infrastructure changes for Non-H2O cluster(s)

There aren't any changes structurally in the infrastructure for non-h2o clusters. As Non-H2O clusters are already open for industry standard technologies and not bound to in-house framework and structures, the transition is quite transparent except the application server version of weblogic is from 11g to 12c.

From the point of view of build and distribution system there are quite a few changes required in EAR applications build configurations. The required changes pertaining to this are detailed in EAR Build Guidelines

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