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WebSphere Virtual Enterprise - Managing WebSphere CE Servers

MANAGE WEBSHERE APPLICATION SERVER COMMUNITY EDITION

In this video, I'm going to show, using WebSphere Virtual Enterprise, to manage your WebSphere Community Edition Servers. I'm going to show you how you can use Web Server 2 Enterprise to create new WebSphere CE Servers, and solve new applications, and to cluster your existing WebSphere Community Edition Servers.

So to start of with, I'll navigate into the console, into Servers, Other Middle Ware Servers, and then WebSphere Community Edition Servers. Here, we can see a set of Community Edition Servers, which were automatically detected by WebSphere Virtual Enterprise, and they were populated into our configuration.

Later, I'm going to cluster these existing servers into a WebSphere Virtual Enterprise dynamic cluster.

First, I'm going to go ahead and create a new cluster of servers using my existing WebSphere CE Runtime. So if I navigate to Dynamic Clusters, I can then select New. And I want to create a new cluster of Type, WebSphere Community Server, Community Edition Server. So let's just call this cluster, WASCE.

So I want to do in this case is create new application server instances. I also have the option to manually define the members of my cluster, and I'll show that after this demo.

So if I choose the Automatic Creation option, and then choose Next, it shows me by default policy is to create these new WASCE cluster members on any node that has the WebSphere CE

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Runtime installed. So I can preview the membership and see that I have six nodes in my environment in which servers will be created.

I choose Next. It's asking me for a server template. It's actually only a single server template for WebSphere CE 2.0. Choose Next, and this is where I can define my standard Web Server 2 Enterprise dynamic cluster properties, including how many instances of the application server I want started at minimum. At maximum, do I need more than one instance per node? Vertical stacking? And do I have any isolation requirements for this application and other applications?

So if I go ahead and choose Next, and then, Finish, we can see my cluster has been created. I'm going to go ahead and save the configuration. And if I click on my WASCE cluster now, I can click on the dynamic cluster members. And you see that all these server instances were created for automatically.

So the next step that I'm going to want to do is go install a new application to this cluster. For that, I navigate into Console, to Applications, Install, New ((inaudible)) Ware Application.

Now, I'm going to select Install WebSphere Community Edition Application. Hit Next. I'm going to find that application on the local file system, and give that application a name. This is a Hello World application. I'm going to choose to install that application to my WebSphere CE cluster that I just created. Now I can map my context roots within that application to my virtual host. I'll just leave that with the defaults. Then I'll hit Finish. And Save.

And now, you can see this status shows unknown deployment. This is why Web Server 2 Enterprise deploys the application to the cluster. After the deployment has finished, this status will be updated.

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So if I hit Refresh on the panel, you'll see now that the application is deployed but in a stop state. So I'm going to go over to my dynamic cluster panel and mark the Web Server CE cluster, place that into automatic mode. Now, Web Server Virtual Enterprise will select a node within the environment that has capacity available to service the application, and go ahead and start that server.

Now, I'm going to navigate into my WebSphere CE Servers within the console and see if the server has yet started. Yes, you see here that the server was started on this node, (XT Blade 05B09).

So now, if we go back over to our applications panel, we should see that the application will list the started status soon. Let me go ahead and hit Refresh on the status. OK, now we see that the Hello World application has, indeed, started on our WebSphere Community Edition.

So the other thing we can do with (Xe dynamic clusters) is create a cluster out of an existing set of WebSphere Community Edition Servers. So let's go ahead and try that.

So let's go ahead and create another new dynamic cluster from WebSphere CE Servers and we'll call this one My Existing Cluster, My Existing CE. And this time, we're going to manually define the cluster members. And so we have this set of automatically detected servers that WebSphere Virtual Enterprise detected. I'm going to add those to the dynamic cluster. We have the same standard, dynamic cluster policies. And we can hit Finish, and Save.

So now we've created a new cluster, My Existing CE, from our existing WebSphere CE Servers. So we can now treat those servers in a dynamic cluster, let WebSphere Virtual Enterprise

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manage the workloads. As well, we can install new applications to that cluster from within WebSphere Virtual Enterprise.

So this concludes the WebSphere CE demo.

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