Advanced Event 6

The Core Configurator

Dr. Scripto has just one final challenge for you: to get out alive!

No, wait, that was when Bond was over for tea and crumpets last week…

Ah, here we go.

Dr. Scripto is deploying a bunch of new Windows Server 2012 Server Core virtual machines. The virtual machines already have the OS installed, and the local Administrator password is set to P@ssw0rd. The virtual machines are using DHCP to get an IP address. There is a DHCP server on the network named DHCP1, and it has a single DHCP scope named 10.0.0.0. The virtual machines' current computer names are not known, and they do not yet belong to the domain.

You need to write PowerShell tool that accepts MAC addresses from the pipeline (as strings – Dr. Scripto has some files listing the VMs' MAC addresses) that joins the virtual machines to the domain and gives them a new computer name. Your tool needs to:

1. Query the Server Core computer's current dynamic IP address from the DHCP server.

2. Join each Server Core computer to the Company.local domain. Use the domain credential Admin, with the password P@ssw0rd, to join the computer to the domain. At the same time, rename the computer. The first computer should be named SERVER1, the second SERVER2, and so forth. Allow the computer to restart.

Your tool should accept a parameter for the server base name, and that should default to SERVER. With the default, the server names will be SERVER1, SERVER2, etc. But, if someone runs the tool and specifies FRED as the server base name, then you rename the servers to FRED1, FRED2, etc. You can assume none of the server names exist on the network (if they do, it's not your fault if something breaks).

You should minimize the number of "Are You Sure" prompts that are shown while your script runs. The computers should be added to the domain's default container for new machine objects.

It's fine if you do this for one computer at a time, but when your script finishes running all of the computers must be properly provisioned.

You can safely assume that SERVER1, SERVER2, etc. do not already exist in the domain.