

Lab 4.5.12 Windows Hello Smart Card Configuration on an Active Directory Domain

From TestOut CompTIA Security+ Course

In this lab I will setting up Smart Card Authentication through Windows Hello on an Active Directory Domain.

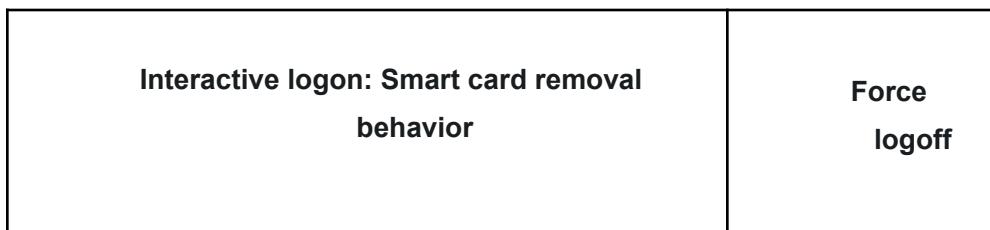
The scenario for this lab is as follows:

"You work as the IT administrator for a growing corporate network. The Research and Development Department is working on product enhancements. Last year, some secret product plans were compromised. As a result, the company decided to implement smart cards for logging on to every computer in the Research and Development Department. No user should be able to log onto the workstation without using a smart card.

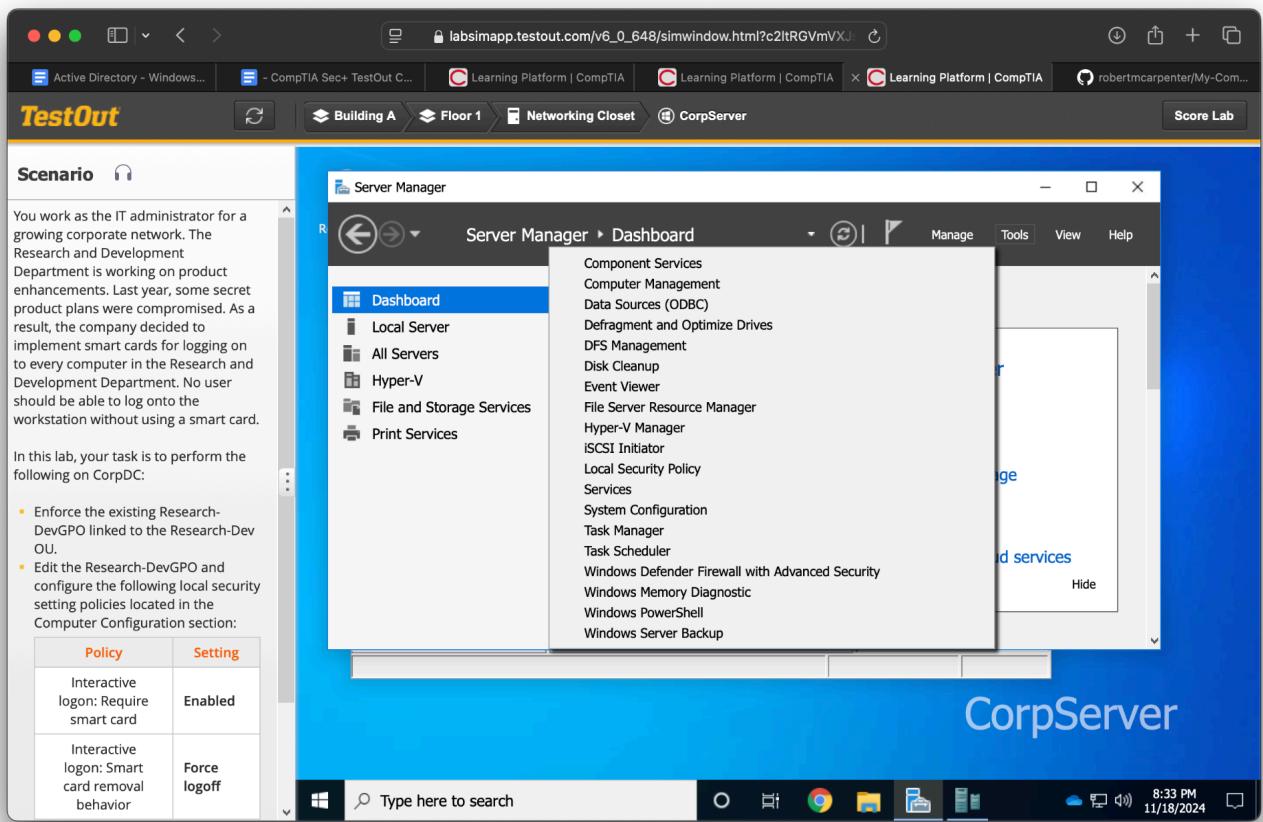
In this lab, your task is to perform the following on CorpDC:

- 1. Enforce the existing Research-DevGPO linked to the Research-Dev OU.**
- 2. Edit the Research-DevGPO and configure the following local security setting policies located in the Computer Configuration section:**

Policy	Setting
Interactive logon: Require smart card	Enabled



For this lab we have several requirements that this hypothetical company would like us to set up. We know that they would like this policy to be applied to all computers in the organization so we will be using Active Directory to push out these changes. I will start by opening the Server Manager on my Domain Controller and navigating to Group Policy Management. I know it is Group Policy Management because in the scenario it tells me that there are GPOs involved which stand for Group Policy Object.



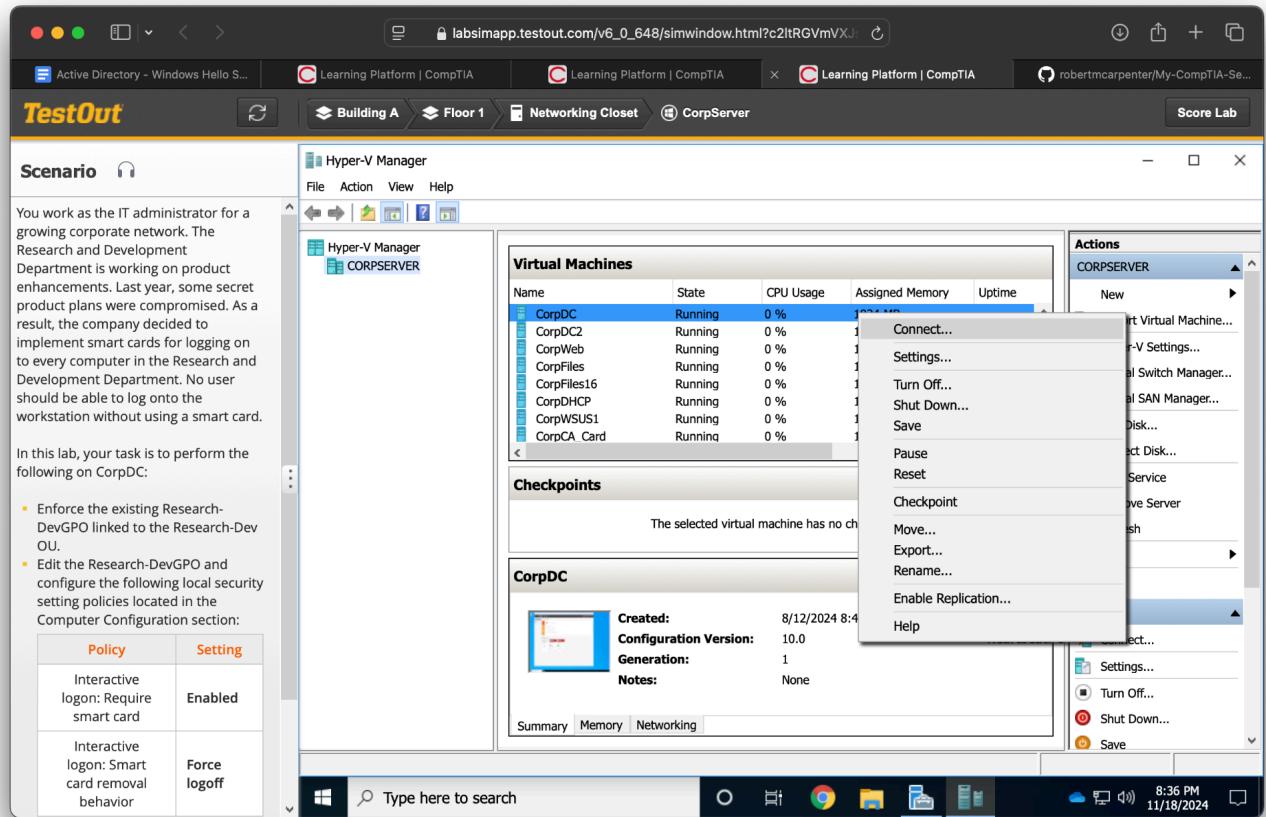
Notice how Group Policy Management is not present? That's because our Domain Controller is a Virtual Machine running within Hyper-V. We have multiple

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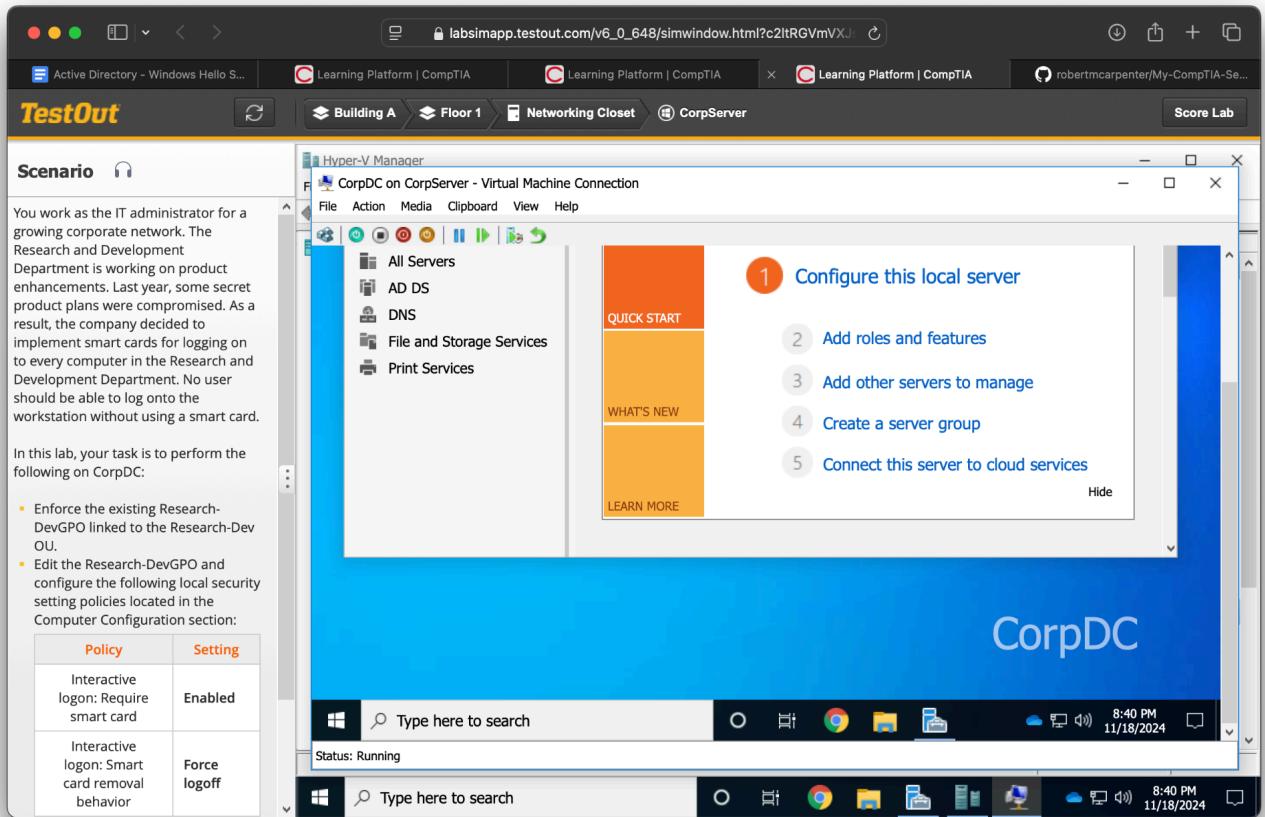
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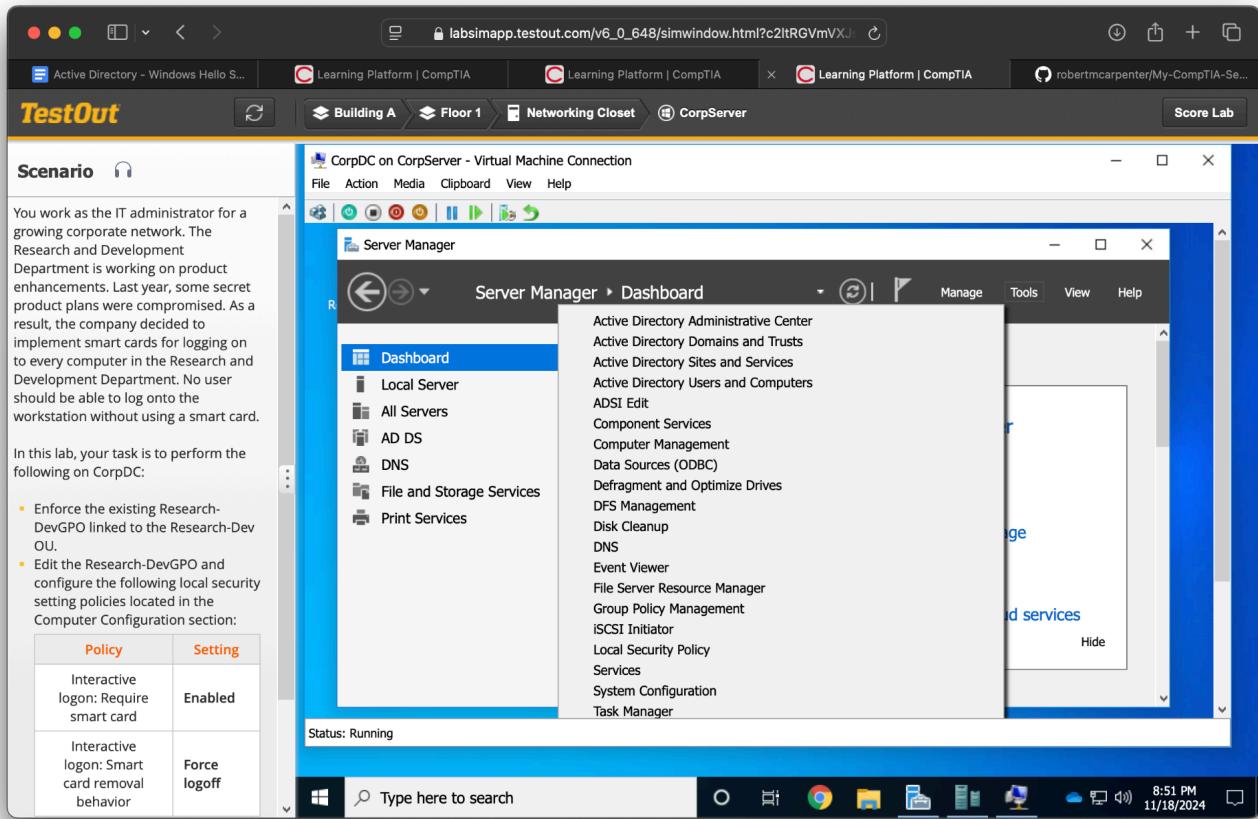
machines running so we will need to switch to the CorpDC machine through the Hyper-V manager. Let's do that now.



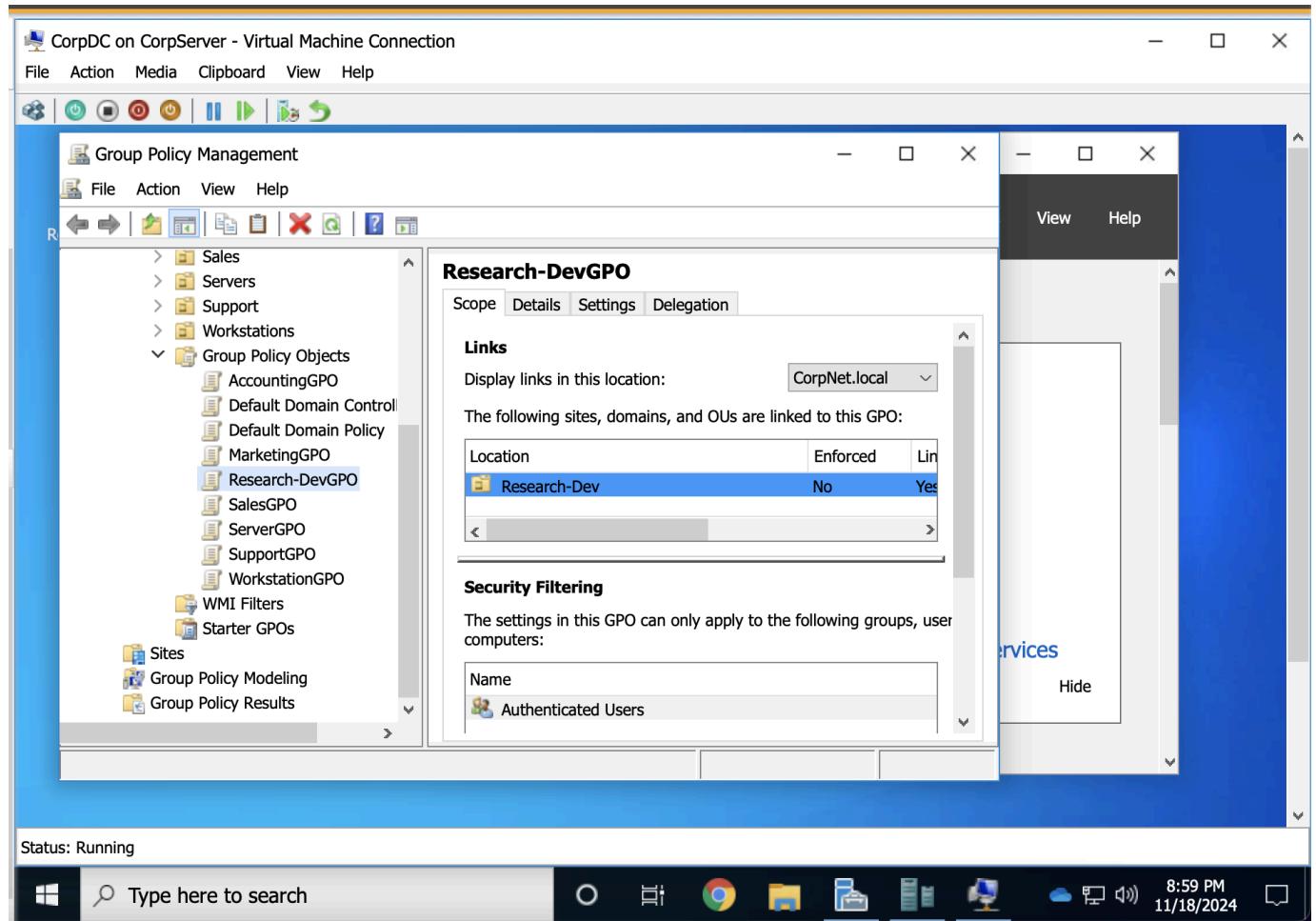
Pressing “connect” will connect us to a nested virtual session with that machine (CorpDC).



Now we're on the Domain Controller ! I see that Group Policy Management is here so I'll go ahead and click it to open it.

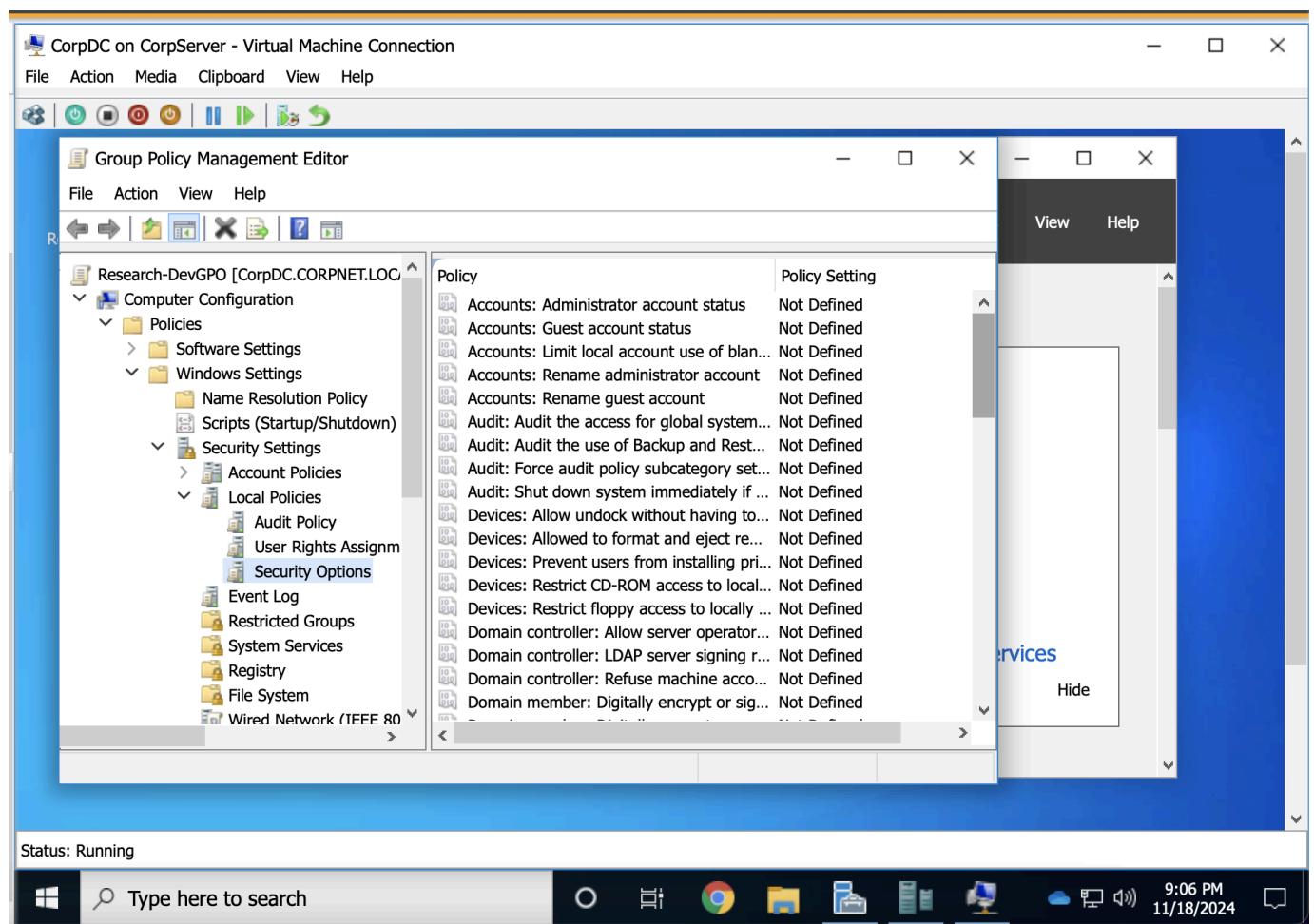


Our first task is to enforce a Group Policy Object upon our Research-Dev Organizational Unit within Active Directory. I will expand the Group Policy Management tree view and navigate to the GPO for the Research-Dev group.



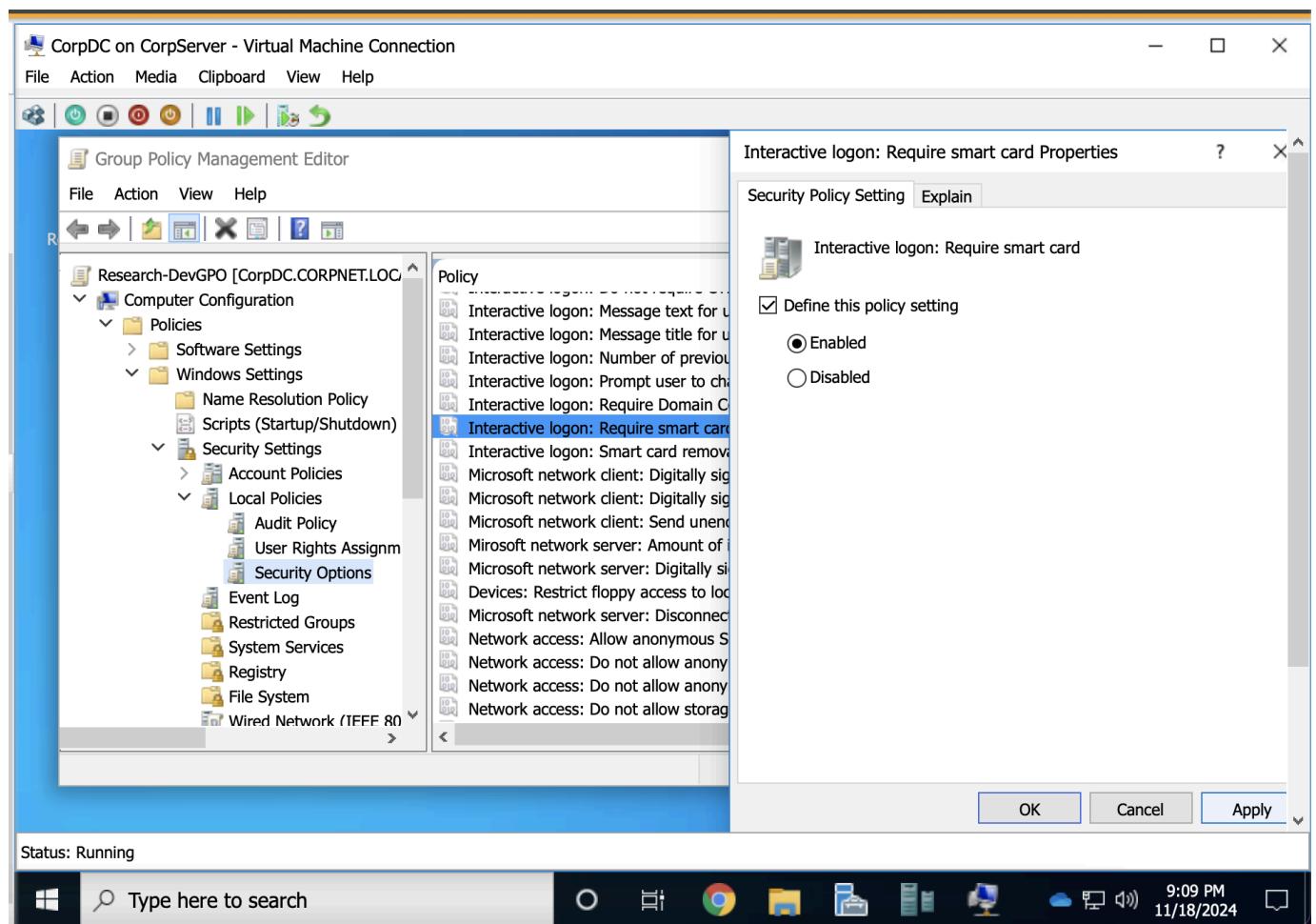
Notice that under the Scope tab, it says out GPO for this group is not enforced. This is not good! Let's go ahead and enable it and move on to the next step. (I know the change was correct because now underneath “Enforced” it says “yes” instead of the “no” in the above screenshot.

Now right click the GPO and select Edit. This will bring up the Group Policy Management Editor. From here navigate to Policies > Windows Settings > Security Settings > Local Policies underneath the Computer Configuration left pane. I'll need to apply it to Computer Configuration instead of User Configuration. This is because Smart Cards need to be applied to all the Research Machines regardless of WHO uses them.

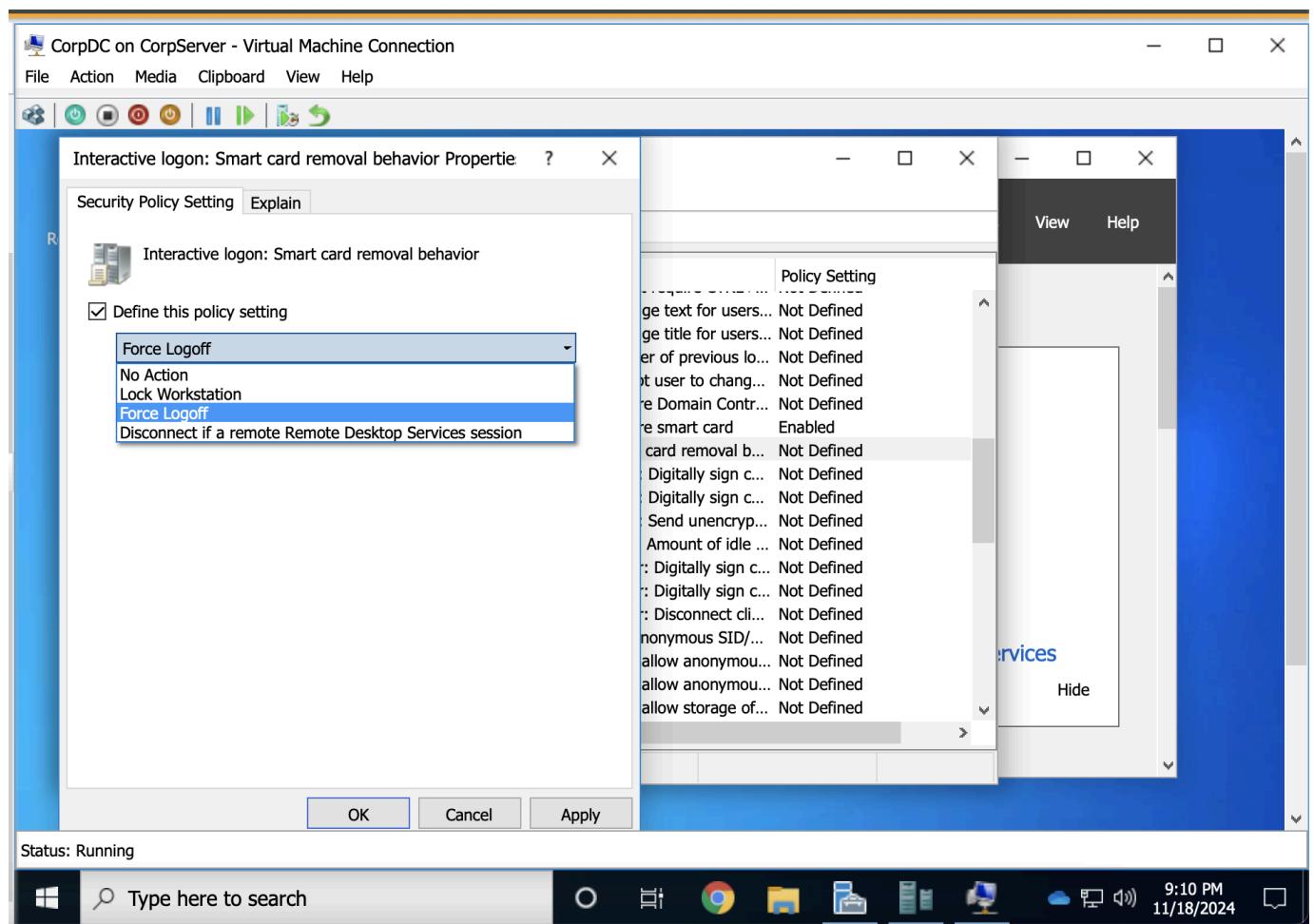


Now that we are here , we are asked by the lab to change two settings. First configure **Interactive logon: Require smart card to [Enabled]** then configure **Interactive logon: Smart card removal behavior** to “Force Log Off”

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Now that we've applied these settings and hit "Apply" then "OK," we are finished !
The changes are pushed out to the Domain immediately!

This now concludes this lab.

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