* 5 minutes

You can also run **Ansible** playbooks on a Windows machine using Visual Studio Code. It applies to other services that can also be integrated using Visual Studio Code.

## Create network resources in Azure using Visual Studio Code

Complete the following steps to create network resources in Azure using Visual Studio Code:

1. If not already installed, install Visual Studio Code by downloading it from the <https://code.visualstudio.com/> page. You can install it on the Windows, Linux, or macOS operating systems.
2. Go to **File** > **Preferences** > **Extensions**.
3. Search for and install the extension **Azure Account**.

* ![Screenshot of Visual Studio Code with the Extensions Azure Account tab displaying. The Azure Account is highlighted, and extensions are listed.](data:image/png;base64;base64,)
* Screenshot of Visual Studio Code with the Extensions Azure Account tab displaying. The Azure Account is highlighted, and extensions are listed.

1. Search for and install the extension **Ansible**.

* ![Screenshot of the Ansible extension highlighted](data:image/png;base64;base64,)
* Screenshot of the Ansible extension highlighted
* You can also view details of this extension on the Visual Studio Marketplace Ansible page.

1. In Visual Studio Code, go to **View** > **Command Palette…** Instead, you can select the **settings** (cog) icon in the bottom-left corner of the **Visual Studio Code** window and then choose **Command Palette**.

* ![Screenshot of View menu with Command Palette highlighted](data:image/png;base64;base64,)
* Screenshot of View menu with Command Palette highlighted

1. In the Command Palette, Type **Azure:** select **Azure: Sign in**.

* ![Screenshot of Visual Studio Code command palette with the Azure command entered, and Azure Sign in highlighted](data:image/png;base64;base64,)
* Screenshot of Visual Studio Code command palette with the Azure command entered, and Azure Sign in highlighted

1. When a browser launches and prompts you to sign in, select your Azure account. Verify that a message displays stating that you’re now signed in and can close the page.

* ![Screenshot of the Visual Studio Code window with the message, You’re signed in now and can close this page.](data:image/png;base64;base64,)
* Screenshot of the Visual Studio Code window with the message, You’re signed in now and can close this page.

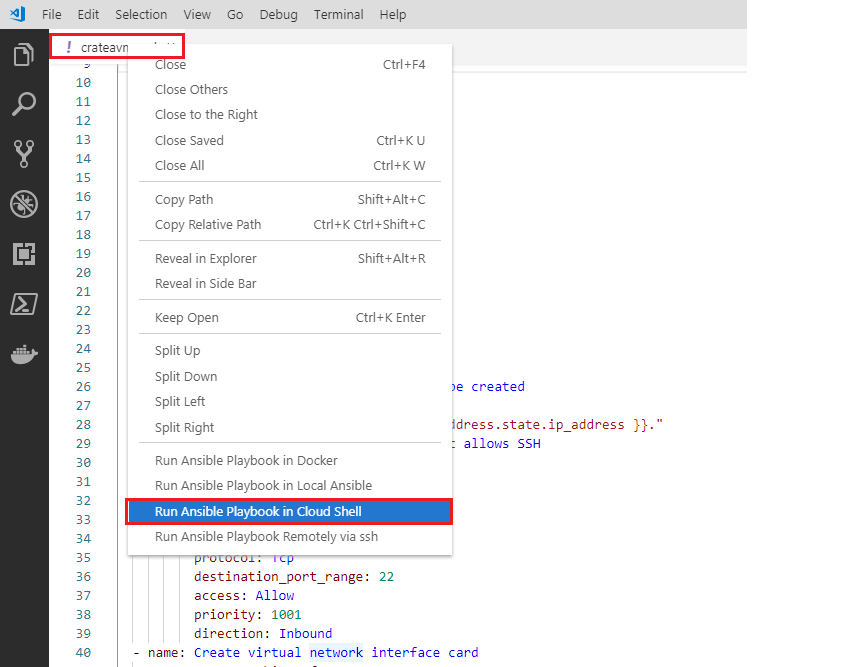
1. Verify that your Azure account now displays at the bottom of the Visual Studio Code window.
2. Create a new file and paste in the following playbook text:

* - name: Create Azure VM.  
   hosts: localhost  
   connection: local  
   tasks:  
    
   - name: Create resource group.  
   azure\_rm\_resourcegroup:  
   name: myResourceGroup  
   location: eastus  
    
   - name: Create virtual network.  
   azure\_rm\_virtualnetwork:  
   resource\_group: myResourceGroup  
   name: myVnet  
   address\_prefixes: "10.0.0.0/16"  
    
   - name: Add subnet.  
   azure\_rm\_subnet:  
   resource\_group: myResourceGroup  
   name: mySubnet  
   address\_prefix: "10.0.1.0/24"  
   virtual\_network: myVnet  
    
   - name: Create public IP address.  
   azure\_rm\_publicipaddress:  
   resource\_group: myResourceGroup  
   allocation\_method: Static  
   name: myPublicIP  
   register: output\_ip\_address  
    
   - name: Dump public IP for VM, which will be created.  
   debug:  
   msg: "The public IP is {{ output\_ip\_address.state.ip\_address }}."  
    
   - name: Create Network Security Group that allows SSH.  
   azure\_rm\_securitygroup:  
   resource\_group: myResourceGroup  
   name: myNetworkSecurityGroup  
   rules:  
    
   - name: SSH  
   protocol: Tcp  
   destination\_port\_range: 22  
   access: Allow  
   priority: 1001  
   direction: Inbound  
    
   - name: Create virtual network interface card.  
   azure\_rm\_networkinterface:  
   resource\_group: myResourceGroup  
   name: myNIC  
   virtual\_network: myVnet  
   subnet: mySubnet  
   public\_ip\_name: myPublicIP  
   security\_group: myNetworkSecurityGroup  
    
   - name: Create VM.  
   azure\_rm\_virtualmachine:  
   resource\_group: myResourceGroup  
   name: myVM  
   vm\_size: Standard\_DS1\_v2  
   admin\_username: azureuser  
   ssh\_password\_enabled: true  
   admin\_password: Password0134  
   network\_interfaces: myNIC  
   image:  
   offer: CentOS  
   publisher: OpenLogic  
   sku: '7.5'  
   version: latest

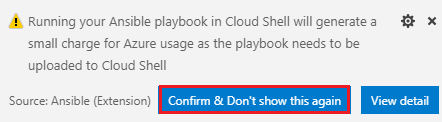
1. Save the file locally, and name it **createavm.yml**.
2. Right-click on the file name in the tab at the top of Visual Studio Code, and review the available options available to run the Ansible playbook:

- Run Ansible Playbook in Docker.  
- Run Ansible Playbook in Local Ansible.  
- Run Ansible Playbook Cloud Shell.  
- Run Ansible Playbook Remotely via ssh.

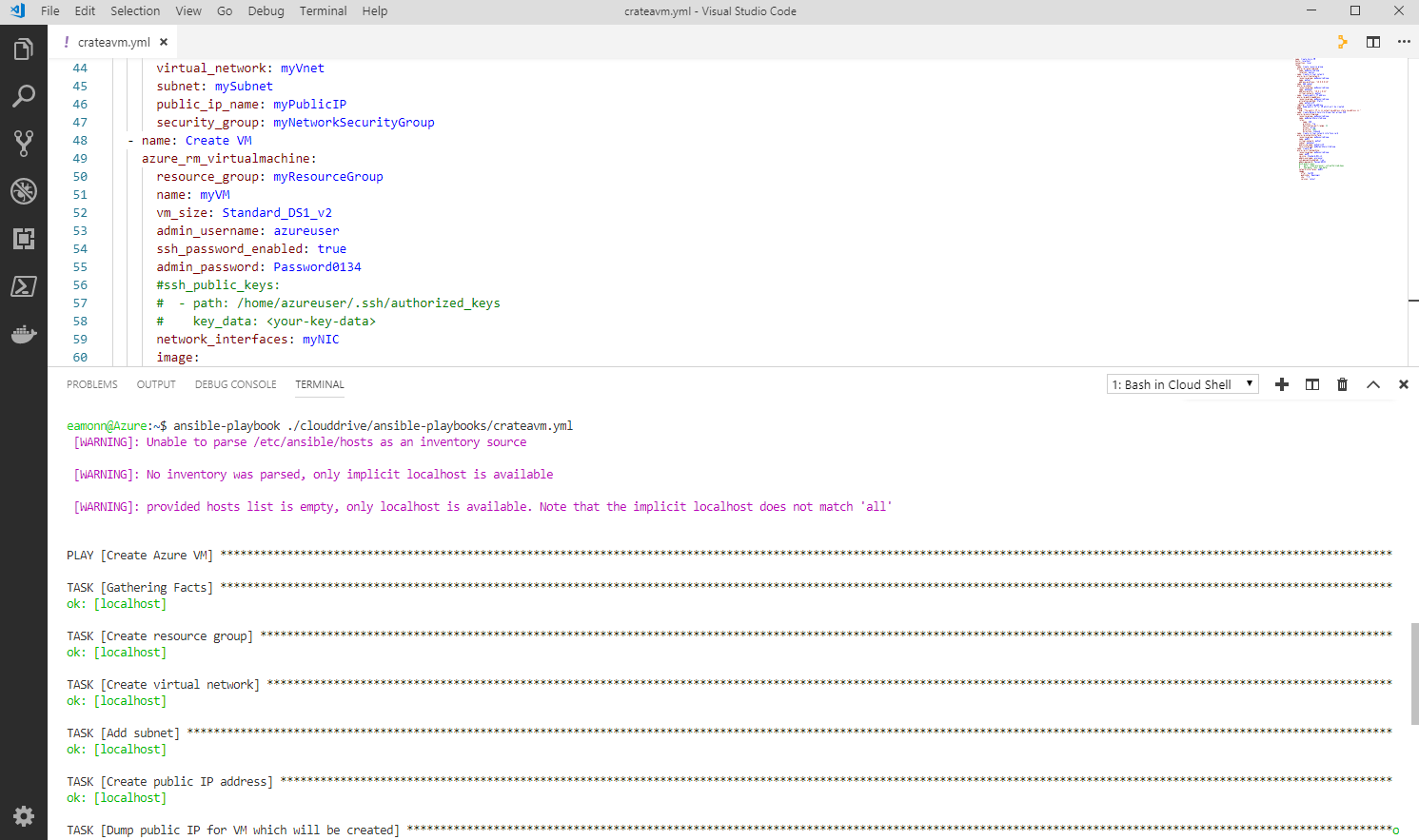
1. Select the third option, **Run Ansible Playbook Cloud Shell**.



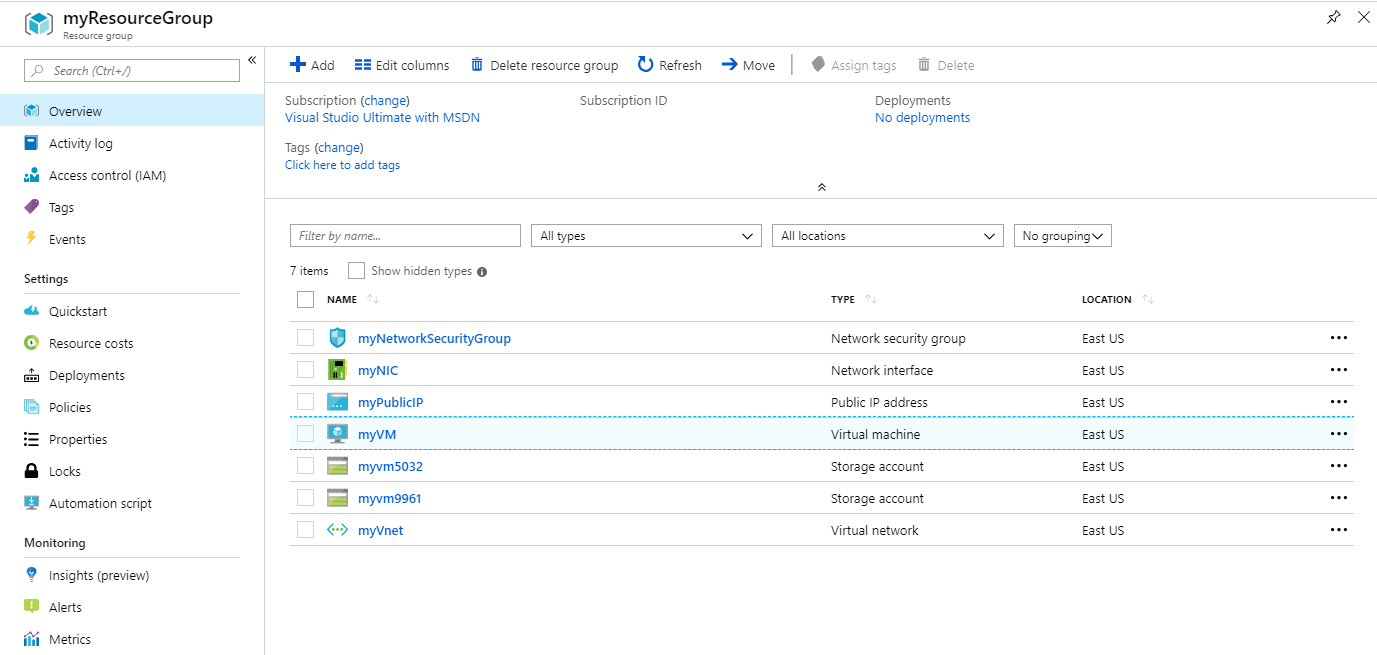
1. A notice might appear in the bottom, left side, informing you that the action could incur a small charge as it will use some storage when the playbook is uploaded to Cloud Shell. Select **Confirm & Don’t show this message again**.



1. Verify that the Azure Cloud Shell pane now displays at the bottom of Visual Studio Code and runs the playbook.



1. When the playbook finishes running, open Azure and verify the resource group, resources, and VM have all been created. If you have time, sign in with the username and password specified in the playbook to verify.



Note

If you want to use a public or private key pair to connect to the Linux VM, instead of a username and password, you could use the following code in the previous Create VM module steps:

admin\_username: adminUser  
 ssh\_password\_enabled: false  
 ssh\_public\_keys:  
  
 - path: /home/adminUser/.ssh/authorized\_keys  
 key\_data: < insert your ssh public key here... >

Need help? See our [troubleshooting guide](https://docs.microsoft.com/en-us/learn/support/troubleshooting?uid=learn.wwl.implement-ansible.exercise-run-ansible-visual-studio-code&documentId=affa25fd-60e9-c38f-b05c-713fbf366b2c&versionIndependentDocumentId=dc35edf7-227c-e720-8b40-783b71cf961f&contentPath=%2FMicrosoftDocs%2Flearn-pr%2Fblob%2Flive%2Flearn-pr%2Fwwl-azure%2Fimplement-ansible%2F9-exercise-run-ansible-visual-studio-code.yml&url=https%3A%2F%2Fdocs.microsoft.com%2Fen-us%2Flearn%2Fmodules%2Fimplement-ansible%2F9-exercise-run-ansible-visual-studio-code&author=lumac) or provide specific feedback by [reporting an issue](https://docs.microsoft.com/en-us/learn/support/troubleshooting?uid=learn.wwl.implement-ansible.exercise-run-ansible-visual-studio-code&documentId=affa25fd-60e9-c38f-b05c-713fbf366b2c&versionIndependentDocumentId=dc35edf7-227c-e720-8b40-783b71cf961f&contentPath=%2FMicrosoftDocs%2Flearn-pr%2Fblob%2Flive%2Flearn-pr%2Fwwl-azure%2Fimplement-ansible%2F9-exercise-run-ansible-visual-studio-code.yml&url=https%3A%2F%2Fdocs.microsoft.com%2Fen-us%2Flearn%2Fmodules%2Fimplement-ansible%2F9-exercise-run-ansible-visual-studio-code&author=lumac#report-feedback).