# VNET - How to Connect from Azure VNET and Scale Set

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## VNET - How to Connect from Azure VNET and Scale Set

#### Issue

Connecting from Azure Virtual network and create Virtual machine Scale Set

### Steps

You CAN use public IP range in your VNets as you can see in the documentation. Vnet does not have public IP if you don't specify it.

What address ranges can I use in my VNets?

--You can use public IP address ranges and any IP address range defined in RFC 1918.+

Can I have public IP addresses in my VNets?

--Yes. For more information about public IP address ranges, see the <u>Public IP address space in a virtual network</u> article. Your public IP addresses will not be directly accessible from the Internet.

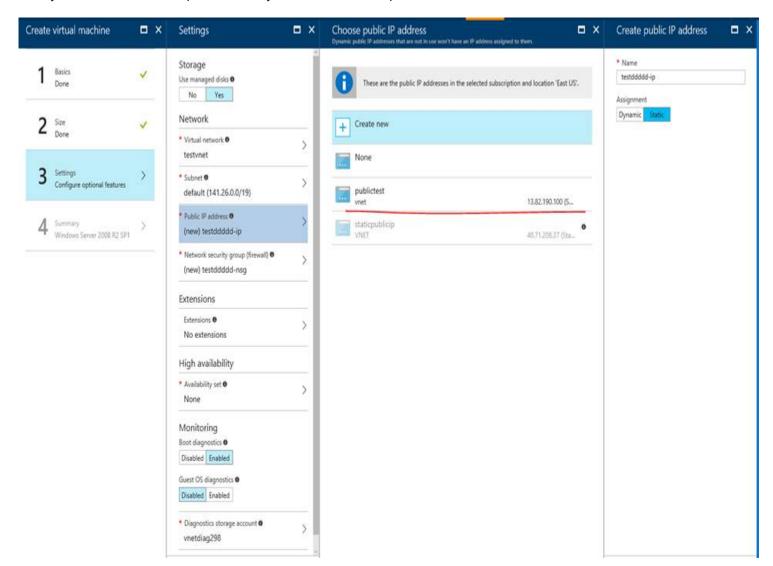
However, when you add a public IP address range, it will be treated as part of the private VNet IP address space that is only reachable within the VNet, interconnected VNets, and from your on-premises location." <a href="https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-public-ip-within-vnet">https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-public-ip-within-vnet</a> To double confirm this, I created a VNET using the public IP 141.26.0.0/16 and then created a VM to use this VNET. VM still use other public IP and treat my VNET IP as part of private IP.



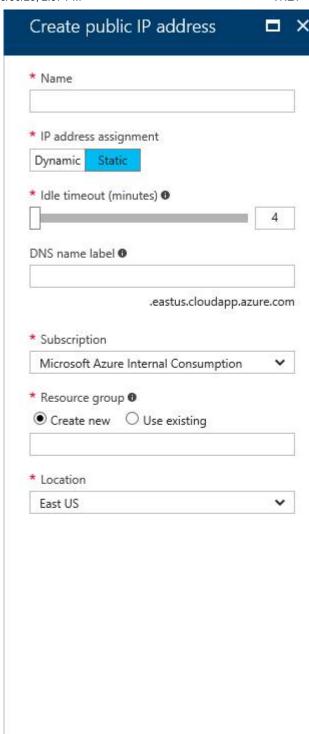
So we shall assign the public IP on the VM level instead of the VNET level in order to communicate with database.

We can assign public IP when creating the VM. We can also change the public IP after VM creation.

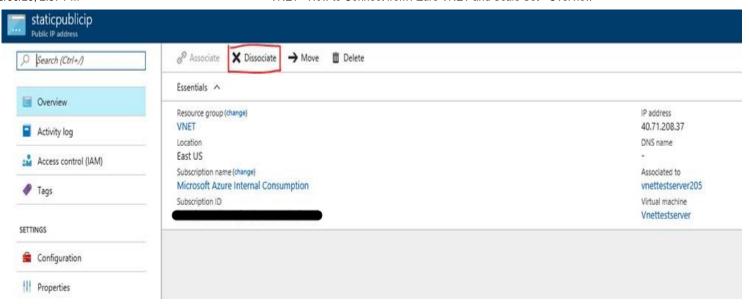
• When you create the VM, you can choose "create new" or choose from existing public IP address where you know the exact ip address if you choose static ip.



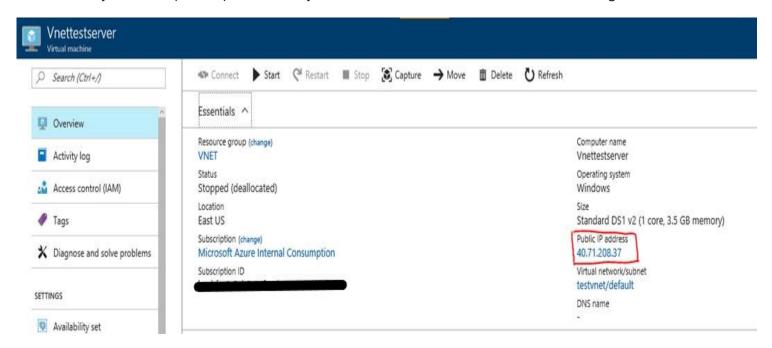
You can create public IP. Once you choose static, it will give you a static IP when it is completed.



• If the VM already created, you can change public ip address using the following dissociate and associate to assign public IP to the VM.

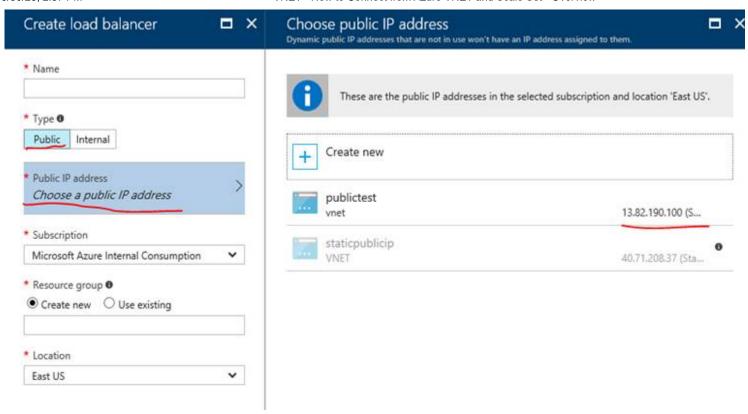


You can find your static public Ip address in your VM and add it to database firewall settings.



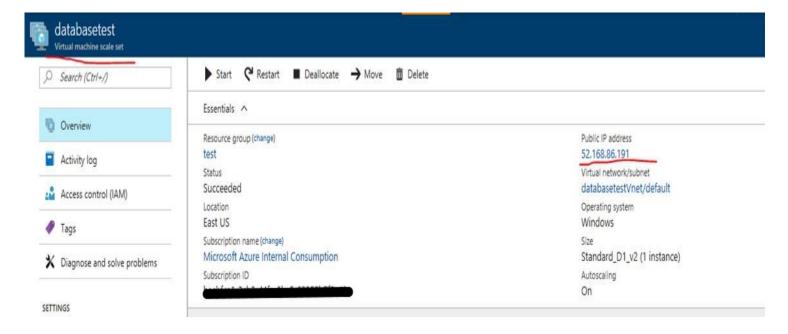
You mentioned you are using load balancer. We can also assign static public IP that we already created to the load balancer.

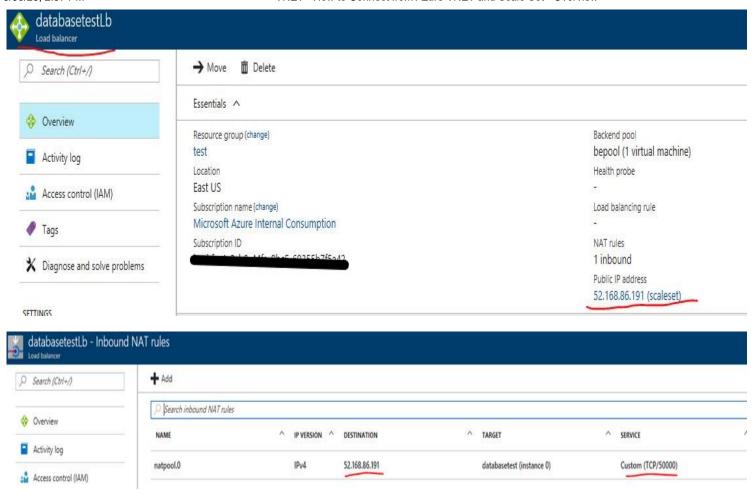
https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-overview



When load balancer is used, it seems sql still see VM's public IP, instead of the load balancer's IP.

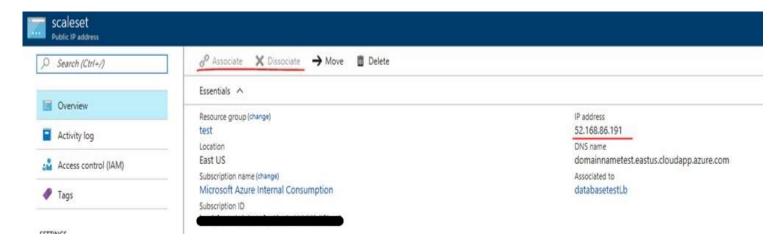
However, it looks like when VM scale set is used, VM scale set IP is the same as its load balancer IP. Underlying VM also has the same IP, just different port for different instances.

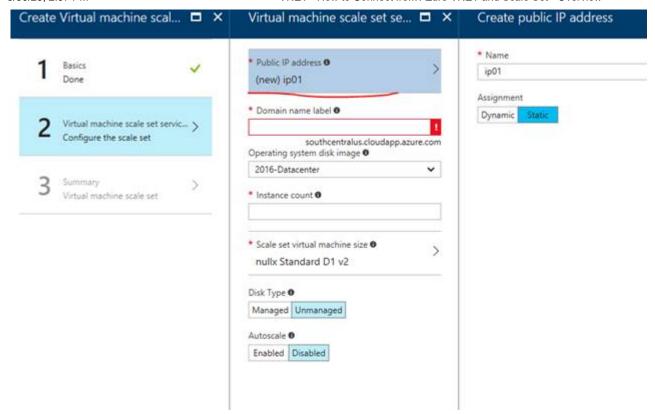




I can use 52.168.86.191:50000 to RDP into this VM.

However, this IP address cannot be dissociated. It makes sense since this is one of the required fields when I create the VM scale set.





## How good have you found this content?

