

Windows VM

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Windows VM

A Windows VM is available to complete the labs. The VM is hosted on Amazon Web Services. You will access it with remote desktop client.

Who Should Use?

Please consider using this VM if you have any of the following limitations:

- Your system does not meet the technical requirements
- You can't install software on your system
- You have limited network access

Requirements

- Remote Desktop Client on your system (most operating systems ship with one)
- Network connectivity and access to reach the Windows VM (RDP uses port 3389)

Provisioning

1) User must have access to an AWS account (can run from any account)

2) User must have an existing key pair in the account or create one

3) The AMI can be found by searching for WinServer08STS in the EC2 Dashboard. Must be in the N. Virginia region.

Launch the AMI named WinServer08STS . In AWS, in the EC2 dashboard, using the US East (N. Virginia) region, select (or search for the public image) Images > AMIs > WinServer08STS. Click Launch.

NOTE: pick the AMI with the greatest number appended to the AMI Name. In this case, WinServer08STS7

The screenshot shows the AWS Management Console interface. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, IMAGES, ELASTIC BLOCK STORE, NETWORK & SECURITY, LOAD BALANCING, and AUTO SCALING. The main content area displays the 'Public images' section with a search filter set to 'WinServer08STS'. A table lists the available images, with 'WinServer08STS7' (AMI ID: ami-61c09504) selected. Below the table, the 'Details' tab for the selected image is open, showing the following information:

Image: ami-61c09504	
AMI ID	ami-61c09504
Owner	347546166198
Status	available
Creation date	October 14, 2015 at 3:12:14 PM UTC-5
Architecture	x86_64
Virtualization type	hvm
Root Device Name	/dev/sda1
RAM disk ID	-
Product Codes	-
AMI Name	WinServer08STS7
Source	347546166198/WinServer08STS7
State Reason	-
Platform	Windows
Image Type	machine
Description	-
Root Device Type	ebs
Kernel ID	-
Block Devices	/dev/sda1=snap-60e5ea12:40:true:gp2

4) When launching, accept defaults except:

1. Choose an Instance Type > t2.medium (4 GB memory)
2. Configure Instance Details > Auto-assign Public IP > Enable
3. Tag Instance > Key = Name ; Value = <your name here-windows>
- 5) Launch the instance. Once the instance is running, select it in list of EC2 instances. Obtain the public IP.
- 6) Using your Remote Desktop connect to the Windows VM using the the public IP.

Username: Administrator

Password: KeepItSimple123

Software Installed

The software listed below has been installed and configured on the VM:

- JDK 1.8 - License (<http://www.oracle.com/technetwork/java/javase/terms/license/index.html>)
- Maven - License (<http://www.apache.org/licenses/>)

- git - License (<https://git-scm.com/about/free-and-open-source>)
- curl - License (<http://curl.haxx.se/docs/copyright.html>)
- cf - License (<https://github.com/cloudfoundry/cli/blob/master/LICENSE>)
- Spring Tool Suite - License (<http://www.eclipse.org/org/documents/epl-v10.php>)
- Cygwin - License (<https://cygwin.com/licensing.html>)
- Chrome - License (https://www.google.com/chrome/browser/privacy/eula_text.html)
- Json Formatter for Chrome (<https://chrome.google.com/webstore/detail/json-formatter/bcjindcccaagfpapjjmafapmmgkkhgoa?hl=en>)

Best Practices

Work Directory

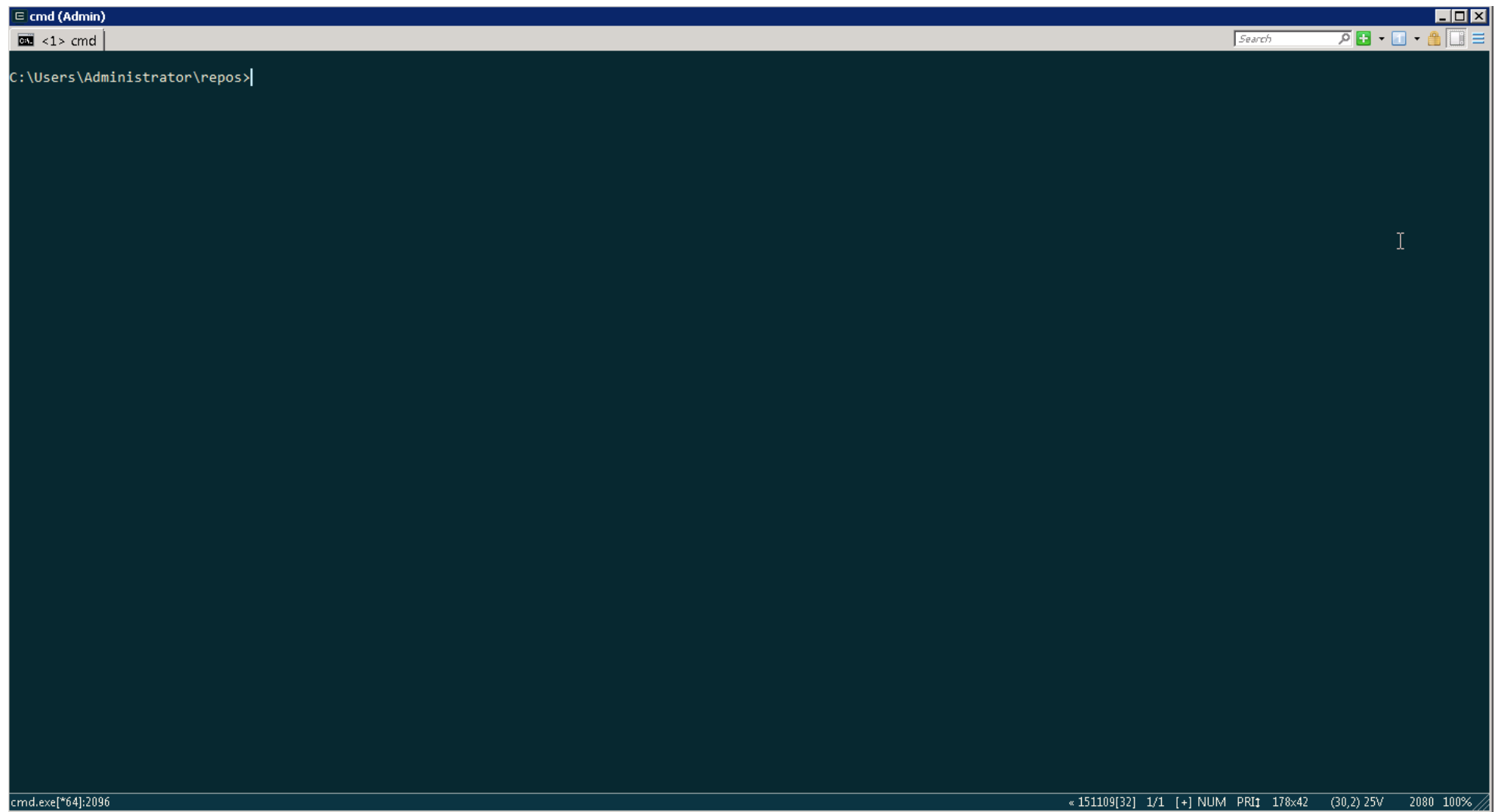
As part of the VM there is a `repos` directory. It is located at `C:\Users\Administrator\repos`. This is where you will clone repos from GitHub. This will be referred to as `$REPOS_HOME` throughout the labs.

ConEmu

The Windows console is very limited in the sense that it lacks tab support, search and other features one might like in a console/terminal experience.

Therefore, also installed is an alternative to the command prompt known as ConEmu (<https://conemu.github.io/>).

We recommend using ConEmu to execute the labs. You can launch ConEmu from the desktop. It will open to your `$REPOS_HOME` directory.



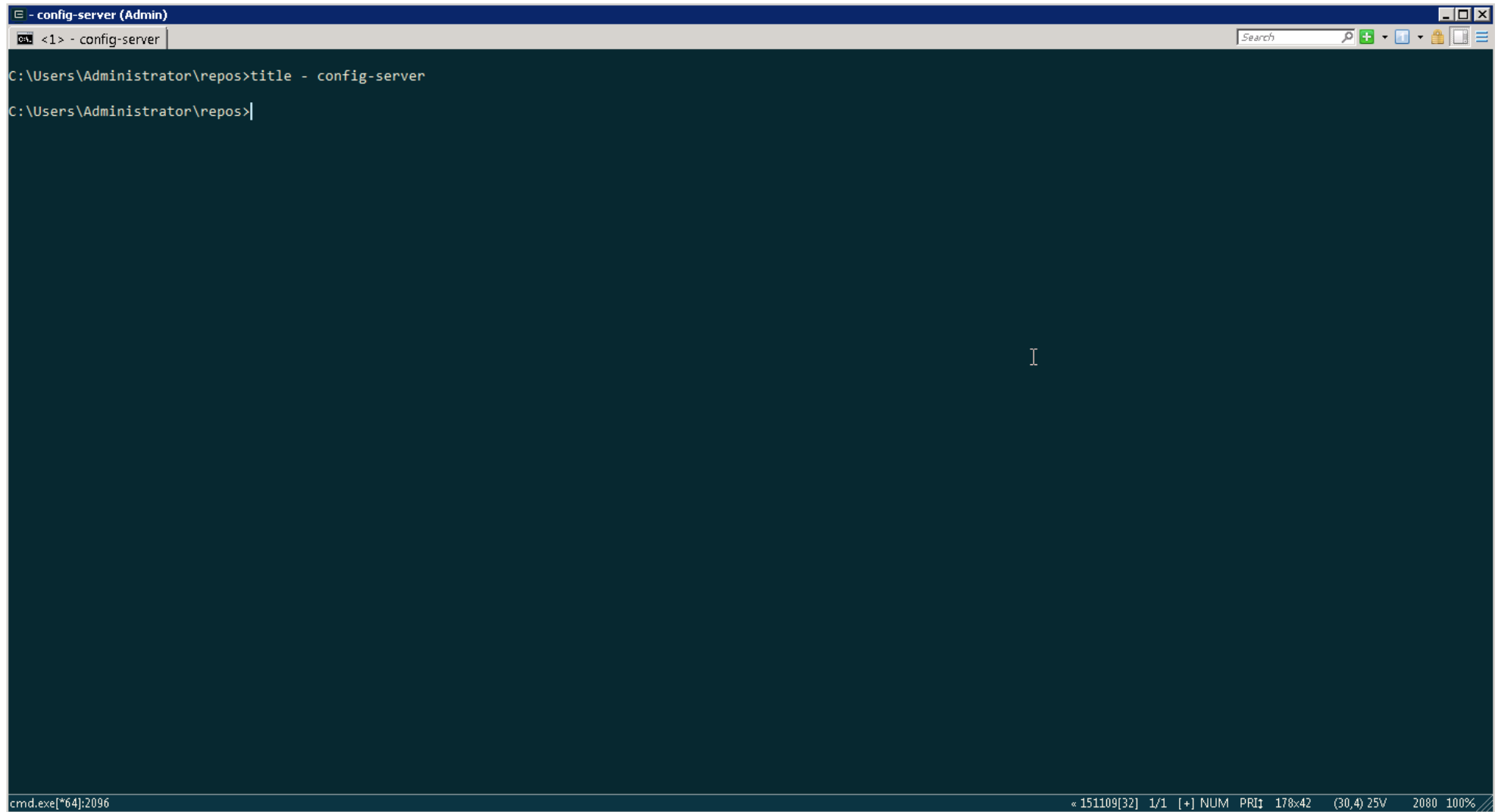
Use Labeled Tabs

As part of the labs you will be starting many processes. Organizing the processes with tabs makes a ton of sense, otherwise you will have windows everywhere making it difficult to manage.

To label the tab execute the following:

```
title - <tab label>
```

For example, creating a tab for the `config-server`. This is where work done with the `config-server` would take place.



```
- config-server (Admin)
C:\Users\Administrator\repos>title - config-server
C:\Users\Administrator\repos>
```

cmd.exe[*64]:2096

« 151109[32] 1/1 [+] NUM PRI↑ 178x42 (30,4) 25V 2080 100%

Odd Keyboard Behavior?

Sometimes when using Remote Desktop keys (control , command , shift , etc.) may become depressed by accident leading to what seems like very odd behavior on the remote machine. The problem can typically be resolved by toggling the depressed key(s). If needed the ***On-Screen Keyboard*** can also be brought up.

Open the ***On-Screen Keyboard*** by clicking the Start button, clicking All Programs , clicking Accessories , clicking Ease of Access , and then clicking On-Screen Keyboard .

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