### Feedback — HW5 Quiz: Review

You submitted this quiz on Fri 26 Jul 2013 7:55 AM SGT (UTC +0800). You got a score of 15.60 out of 18.00. You can attempt again, if you'd like.

### **Question 1**

The following questions review content in Lectures 1-8, with a particular focus on Lectures 2, 3, 4a, 4b, 7, and 8. The HTML/CSS content from Lecture 6 and the git content from Lecture 7 are treated in separate quizzes.

First question: Which of the following is an example of Infrastructure-as-a-Service (IAAS)?

Your Answer		Score	Explanation
Gravatar			
AWS	~	1.00	
Stripe			
Github			
Heroku			
Total		1.00 / 1.00	

### **Question 2**

Which of the following is an example of Platform-as-a-Service (PAAS)?

Your Answer		Score	Explanation
Gravatar			
AWS			
Stripe			
Github			
Heroku	~	1.00	

Total

1.00 / 1.00

# **Question 3**

Which of the following are accurate statements about git vs. Github?

Your Answer		Score	Explanation
✓ You can use git without Github.	~	0.20	
Github is a command line tool, while git is a cloud service	~	0.20	
You can simultaneously use Github and other hosts like Bitbucket or Google Code for your git repositories, due to git's distributed version control model	•	0.20	
git is a free open-source project, while Github is a freemium service provided by a technology company	<b>~</b>	0.20	
git is a command line tool, while Github is a cloud service	~	0.20	
Total		1.00 / 1.00	

# **Question 4**

Which statements are generally true about IAAS?

Your Answer	Score Explana	ation
An IAAS service allows you to provision, tear down, and set up new virtual machines programmatically	0.20	
An IAAS service provides a blackbox deployment API that "just works" to get your site on the web, without giving much access to internal details	0.20	
An IAAS service asks the end user to do less configuration than a PAAS service, at the expense of less flexibility	0.20	
An IAAS service must provide access to	0.00 This is r	not true. Windows

Linux virtual machines in the cloud			Azure provides access to Windows instances, and Linux per se is not a requirement for IAAS.
An IAAS service provides command line and/or root access to its machines.	<b>~</b>	0.20	
Total		0.80 /	
		1.00	

Which statements are generally true about PAAS?

Your Answer		Score	Explanation
A PAAS service usually stipulates conventions for how your source code should be laid out to facilitate deployment	<b>~</b>	0.20	
A PAAS service usually provides a blackbox deployment API that "just works" to get your site on the web, without giving much access to internal details	~	0.20	
A PAAS service asks the end user to do less configuration than a IAAS service, at the expense of less flexibility	<b>~</b>	0.20	
An PAAS service must provide access to Linux virtual machines in the cloud	<b>~</b>	0.20	
A PAAS service encourages low-level control over every aspect of your deployment servers	<b>~</b>	0.20	
Total		1.00 / 1.00	

### **Question 6**

What are true statements about Linux and Unix?

Your Answer		Score	Explanation
Linux is the same as Berkeley Software Distribution (BSD)	~	0.20	

Quiz Feedback   Startup Engineering  Linux is a free, open-source operating system	<b>♥</b> U.∠U
The Android OS is based on Linux	✔ 0.20
Linux is a feat of reverse engineering of AT&T's proprietary Unix OS, compliant with the POSIX standard (see here)	<b>×</b> 0.00
Linux shares no direct code with Unix (as established definitively by the SCO Lawsuit)	✔ 0.20
Total	0.80 /
	1.00

Which are valid reasons for AWS to use virtual machines for EC2 rather than give direct access to physical servers?

Your Answer		Score	Explanation
Primarily historical reasons	~	0.20	
Using VMs provides a layer of safety between the physical machine and untrusted user code	~	0.20	
■ Virtual machines have better performance than physical servers	~	0.20	
WMs can allow partitioning of the same underlying 8-CPU hardware into 1, 2, 4, 8, or possibly more separate instances, thereby increasing utilization	<b>~</b>	0.20	
Virtual machines can be more easily wiped and restored	~	0.20	
Total		1.00 / 1.00	

# **Question 8**

What are STDIN, STDOUT, and STDERR?

Your Answer		Score	Explanation
Special environmental variables used to configure a Unix	~	0.20	
command line's behavior			

Unix programming conventions that are guidelines rather than rules	<b>~</b>	0.20
Unix-specific file formats, like XLS or PDF	~	0.20
The conventional ways to pipe data into a Unix command line program, to output data, and to output any error messages	<b>~</b>	0.20
The three standard streams that Unix programs use to receive and send information to their environment	<b>~</b>	0.20
Total		1.00 / 1.00

What is an advantage of the screen command line tool?

Your Answer	Score	Explanation
It is a powerful tool for on-screen graphics and parallel processing		
It creates a remote terminal which is identical to your local terminal		
It screens incoming connections for bad packets, like a firewall		
It makes copy/pasting of text from a terminal window easier		
It allows you to edit code on a remote machine, disconnect, and resume where you left off	<b>✓</b> 1.00	
Total	1.00 /	
	1.00	

### **Question 10**

Why is it better to edit code with a text editor like emacs or vim than a WYSIWYG word processor like MS Word?

Your Answer Score Explanation

Strong REPL integration in MS Word	~	0.20
A word processor is primarily intended to produce documents which are read by humans, while a text editor is capable of producing documents that are read by machines	<b>~</b>	0.20
■ Because emacs and vim are commercial programs supported by large companies, unlike MS Word	<b>~</b>	0.20
Historical convention on the part of programmers	~	0.20
A word processor will not show you the raw characters which you are editing, but these can be important for computer programming	<b>~</b>	0.20
Total		1.00 / 1.00

Why do we include "staging" in the dev/staging/production flow?

Your Answer	Score	Explanation
To slow down experienced developers		
Purely historical reasons		
As a staging area for sharing and exchanging code from multiple engineers		
To be compatible with git's concept of a staging area	<b>×</b> 0.00	
Because the dev environment is not exactly the same as the production environment, while staging is		
Total	0.00 / 1.00	

# **Question 12**

Which of these are disadvantages of editing code directly on a live server, and using the deployment server as the sole source code repository?

Your Answer		Score	Explanation
■ Inability to do A/B testing	<b>~</b>	0.20	
Inability to rollback buggy features	<b>~</b>	0.20	
Redundancy and duplication of source code	<b>~</b>	0.20	
Contention if multiple engineers try to edit the site at the same time	<b>~</b>	0.20	
Lack of source code backups	<b>~</b>	0.20	
Total		1.00 / 1.00	

Roughly what percentage of the world has smartphones as of June 2013, according to Mary Meeker's Internet Trends presentation?

Your Answer		Score	Explanation
<b>50%</b>			
<b>10%</b>			
<b>7</b> 0%			
<ul><li>20%</li></ul>	~	1.00	
<b>5</b> %			
Total		1.00 / 1.00	

# **Question 14**

What's Apple's primary monetization channel for mobile devices?

Your Answer	Score	Explanation
OS developer licensing fees		
iTunes		

iAds		
Hardware sales of iPhones and iPads		
The App Store	×	0.00
Total		0.00 / 1.00

# Question 15 What's Google's primary monetization channel for mobile devices? Your Answer Score Explanation ● Android developer licensing fees ● Hardware sales of Android devices ● Gmail ● Mobile advertising ✓ 1.00 ● Google Play

1.00 / 1.00

### **Question 16** Which of the following are true statements about Android and ChromeOS? **Your Answer** Score Explanation Mandroid is based on a model of significant native-client-0.20 centric computation and storage/state, while ChromeOS is based on an assumption of less powerful clients and cloudcentric computation All Android apps only work online, while ChromeOS apps 0.20 work offline. As of mid-2013, there are many more devices running 0.20 Android than ChromeOS All ChromeOS apps only work online, while Android apps 0.20 Some work offline. ChromeOS

Total

			apps can use local storage for offline mode. See here.
Android apps are written in Java while ChromeOS apps are written in Javascript.	<b>~</b>	0.20	
Total		1.00 / 1.00	

Which of the following are examples of "Internet of Things" technologies?

Your Answer		Score	Explanation
A parking meter which you can pay through a web dashboard	~	0.20	
A smartphone-controlled lock	~	0.20	
A self-driving car which receives maps and data from the internet	<b>~</b>	0.20	
A pressure-sensitive egg tray which reports the numbers of eggs via API (See here. Might actually be useful for large restaurants.)	<b>~</b>	0.20	
An electronic whiteboard that uploads your drawings to a cloud folder	<b>~</b>	0.20	
Total		1.00 / 1.00	

### **Question 18**

Which of the following are examples of "Quantified Self" technologies?

Your Answer		Score	Explanation
A qualititative diagnosis by an expert physician	<b>~</b>	0.20	
An internet-connected blood glucose monitor	~	0.20	

A scale which uploads your weight to a personal cloud service	✔ 0.20
A wearable armband that acts as a sleep tracker and pedometer	✔ 0.20
A device which you press to your temple to read and transmit your vital signs	✔ 0.20
Total	1.00 / 1.00