

# Universiti Putra Malaysia world leader in new tropical agriculture







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# MYREN CLOUD COMPUTING



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# CLOUD COMPUTING

- Cloud computing is the broader concept of converged infrastructure and shared services
- The main enabling technology for cloud computing as virtualization
- Virtualization makes it available as a soft component that is easy to use and manage
- Virtualization provides the agility required to speed up IT operations, and reduces cost by increasing infrastructure utilization.
- Autonomic computing automates the process through which the user can provision resources on-demand
- Enable users to access systems from internet using a web browser regardless of their location or what device they using (e.g. PC, mobile phone)

#### Cloud Computing Service Model:

- Infrastructure as a Service (laaS)
- Platform as a Service (PaaS)
- Storage as a Service (SaaS)
- Network as a Service (NaaS)



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- Cloud Portal Infrastructure as a Service (IaaS) and Platform as a Service (Paas)
- Platform Package

PLATFORM PACKAGE	DESCRIPTION
MYREN-WAMP	Windows Server 2008 Data Center + Apache + MYSQL + PHP
MYREN-LAMP-Debian	Debian 6 + Apache + MYSQL + PHP
MYREN-LAMP-Ubuntu	Ubuntu 12 + Apache + MYSQL + PHP
MYREN-LAMP-CentOS	CentOS 6 + Apache + MYSQL + PHP
MYREN-LAMP-Fedora	Fedora 18 + Apache + MYSQL + PHP



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#### Infrastructure Package

INFRASTRUCTURE PACKAGE	DESCRIPTION
MYREN-TYPE A	RAM = 1GB; HDD = 50GB
MYREN-TYPE B	RAM = 2GB; HDD = 100GB
MYREN-TYPE C	RAM = 4GB ; HDD = 200GB



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#### **USER REGISTRATION**

**USER SIGN UP** 

- 1. Go to MYREN Cloud Portal, <a href="https://cloud.myren.net.my">https://cloud.myren.net.my</a>
- 2. Click on SIGN UP button
- 3. Fill in the information. Field mark with \* are compulsory

Note: Please use organization corporate email as username

- 4. Select **COURSE DURATION** start date and end date
- Select ORGANIZATION from list
- 6. Tick on I AGREE TO THE FOLLOWING
- 7. Click on **NEXT STEP** button. Notification will be appear
- 8. Sign up notification email will be sent



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#### **USER REGISTRATION**

**USER SIGN UP** 





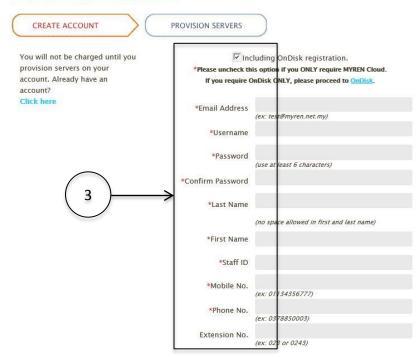
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#### **USER REGISTRATION**

**USER SIGN UP** 

#### **Get Started with MYREN Cloud**



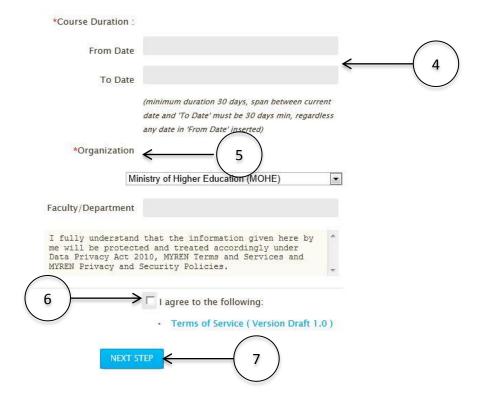


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#### **USER REGISTRATION**

**USER SIGN UP** 





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#### **MACHINE REQUEST**

LOGIN TO CLOUD PORTAL

- 1. Go to <a href="https://cloud.myren.net.my">https://cloud.myren.net.my</a>
- 2. Click on Login button. Login interface will be displayed
- 3. Fill in the Username, Password and select Organization
- 4. Click on **Login** button
- 5. Provision a machine window will be displayed



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#### **MACHINE REQUEST**

LOGIN TO CLOUD PORTAL





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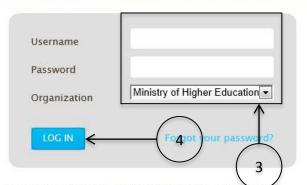
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#### **MACHINE REQUEST**

LOGIN TO CLOUD PORTAL

#### Malaysia Research and Education Network (MYREN)





MYREN Cloud Services offers ultra flexible, scalable cloud servers via our infrastructure on-demand. Simply configure our sophisticated infrastucture with any web browser to match your needs.

Instant Flexibility – Scale your Machine via any Web browser.

Peace of Mind – With the guaranteed SLA and Availability.

Cost Efficiency – Scale and Grow when you need.



Generic multi-purpose SmartMachine template

MYREN-LAMP\_Debian6 Version: 1.0.6

MYREN-LAMP\_Debian6 1.0.6 VM image

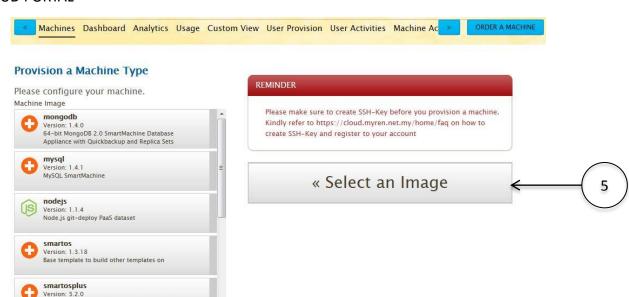
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#### **MACHINE REQUEST**

LOGIN TO CLOUD PORTAL





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#### **MACHINE REQUEST**

CREATE SSH KEY

- 1. After login to the Cloud Portal, click on MY ACCOUNT link. PROFILE interface will be displayed
- 2. Click ON SSH KEYS button. SSH KEYS interface will be diplayed
- 3. Download PuttyGen from <a href="http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html">http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html</a>
- 4. Click on **RUN** button to install and open the PUTTY Key Generator
- 5. Putty Key Generator window will be displayed
- 6. On PARAMETERS option, select SSH-2 RSA and set the NUMBER OF BITS IN GENERATED KEY as 1024
- 7. Click on GENERATE button
- 8. Once generated, please fill the key detail. Below are the sample:

I. Key comment: administrator

II. Key passphrase: abc123

III. Confirm passphrase: abc123

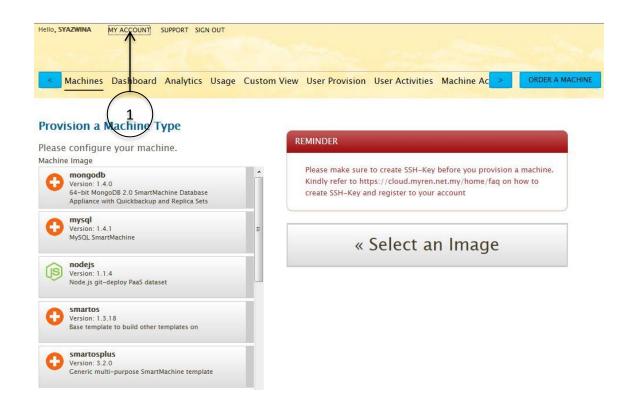
- 9. Click on **SAVE PRIVATE KEY** button, then save the key at the desktop. Create folder if necessary
- 10. Then, select all and copy the private key
- 11. Then paste at SSH KEYS window in the cloud Portal. Assign a name for the key. Click on ADD THIS KEY button
- 12. Notification SSH Key succesfully added will be displayed



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#### **MACHINE REQUEST**





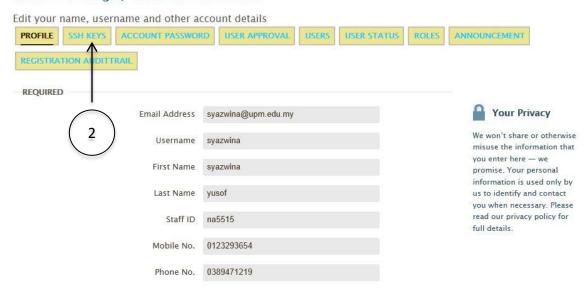
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#### **MACHINE REQUEST**

CREATE SSH KEY

#### **Account Settings / Personal Information**

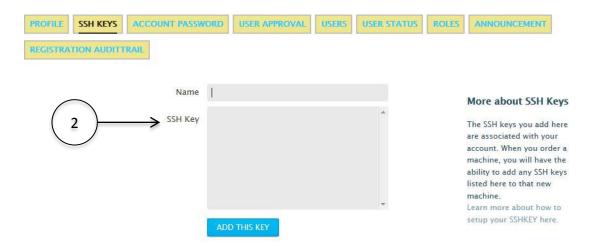




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#### **MACHINE REQUEST**





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#### **MACHINE REQUEST**

**CREATE SSH KEY** 

#### Binaries

The latest release version (beta 0.63). This will generally be a version I think is reasonably likely to work well. If you have a problem with the release version, it might be worth trying out the latest development snapshot (below) to see if I've already fixed the bug, before reporting it to me.

#### For Windows on Intel x86

PullY:	putty.exe	(or by FIP)	(RSA sig)	(DSA sig
PuTTYtel:	puttytel.exe	(or by FTP)	(RSA sig)	(DSA sig
PSCP:	pscp.exe	(or by FTP)	(RSA sig)	(DSA sig
PSFTP:	psftp.exe	(or by FTP)	(RSA sig)	(DSA sig
Plink:	plink exe	(or by FTP)	(RSA sig)	(DSA sig
Pageant:	pageant.exe	(or by FTP)	(RSA sig)	(DSA sig
PuTTYgen:	puttygen.exe	or by TP)	(RSA sig)	(DSA sig



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#### **MACHINE REQUEST**

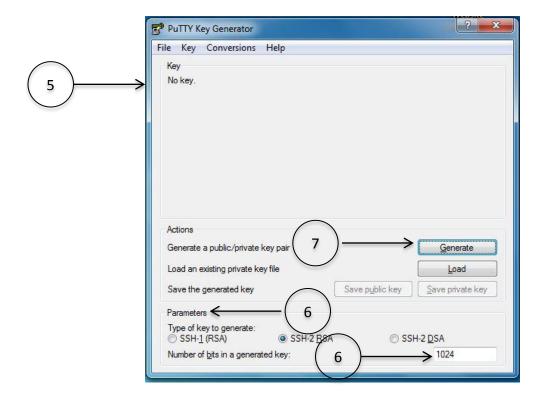




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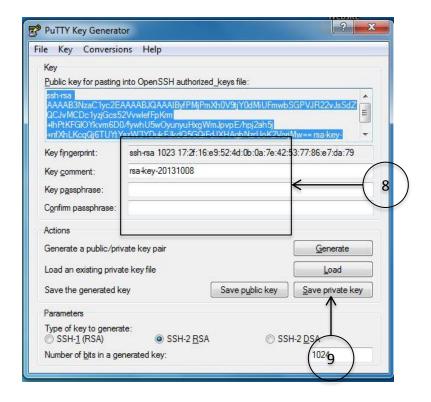




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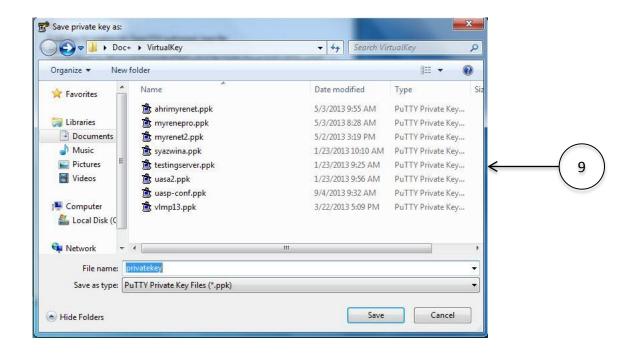




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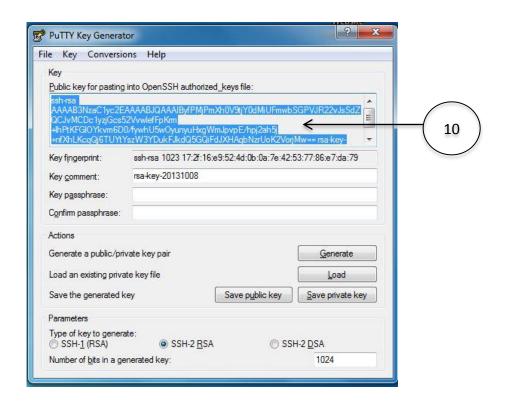




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#### **MACHINE REQUEST**





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#### **MACHINE REQUEST**





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#### **MACHINE REQUEST**

ROFILE	SSH KEYS	ACCOUNT PASSWORD	USER APPROVAL	USERS	USER STATUS	ROLES	ANNOUNCEMENT
EGISTRA	ATION AUDITI	FRAIL					
NFÖRM	ATION						More about SSH I
SSH K	ey successfully	y added.					The SSH keys you add are associated with yo
	$\top$						account. When you or machine, you will have
		Name					ability to add any SSH
(	12	CCII Vov			*		machine.
1	\ /	SSH Key					Learn more about how setup your SSHKEY he



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#### **MACHINE REQUEST**

**ORDER A MACHINE** 

- 1. Click ON ORDER A MACHINE button. Provision a Machine Type interface will be displayed
- 2. Select a dataset MYREN-WAMP-Key1
- 3. Select a package MYREN-TYPE A
- 4. Details of selected machine will be displayed
- 5. Select MYRENCLOUD as Data Center
- 6. Fill in machine name

Note: Please only use "-" (dash) or "." (dot). No space are allowed

7. Fill in machine remark

Note: Only use number to represent port number

- 8. Click on Provision button
- 9. Notification will be displayed
- 10. User will receive notification email on machine request and pending system admin approval

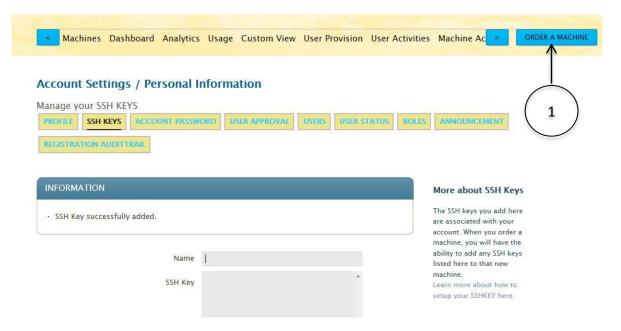


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#### **MACHINE REQUEST**

**ORDER A MACHINE** 

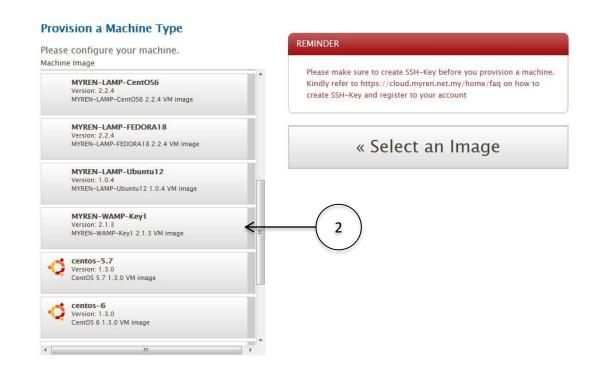




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#### MACHINE REQUEST ORDER A MACHINE



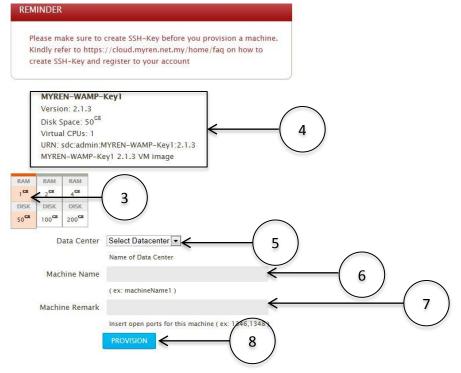


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#### MACHINE REQUEST ORDER A MACHINE





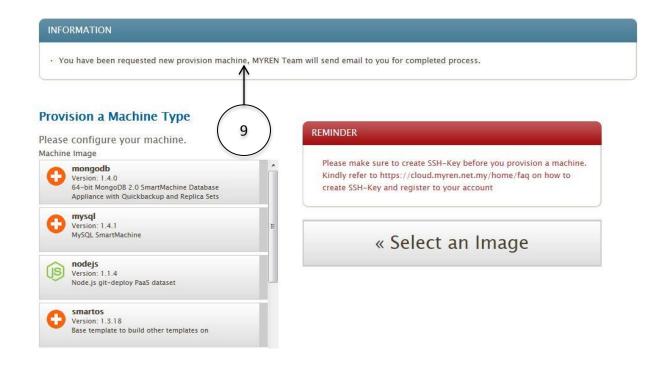


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#### **MACHINE REQUEST**

**ORDER A MACHINE** 



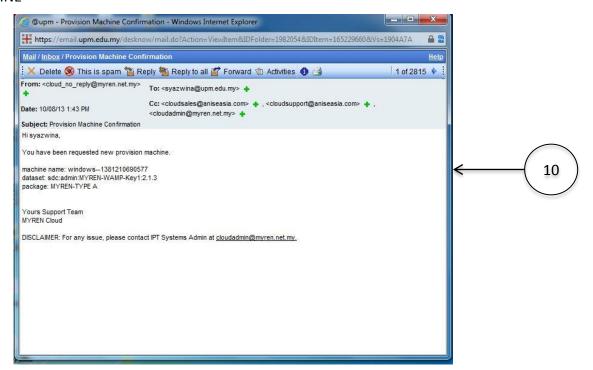


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#### **MACHINE REQUEST**

**ORDER A MACHINE** 





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#### **MACHINE REQUEST**

**CREATE ACCESS** 

- 1. To access the server for the first time, expand the CREDENTIAL and use the username and password displayed
- 2. Access the machine using remote Desktop and use the credential
- 3. User can change the password after login to the machine. Now the machine is ready to use