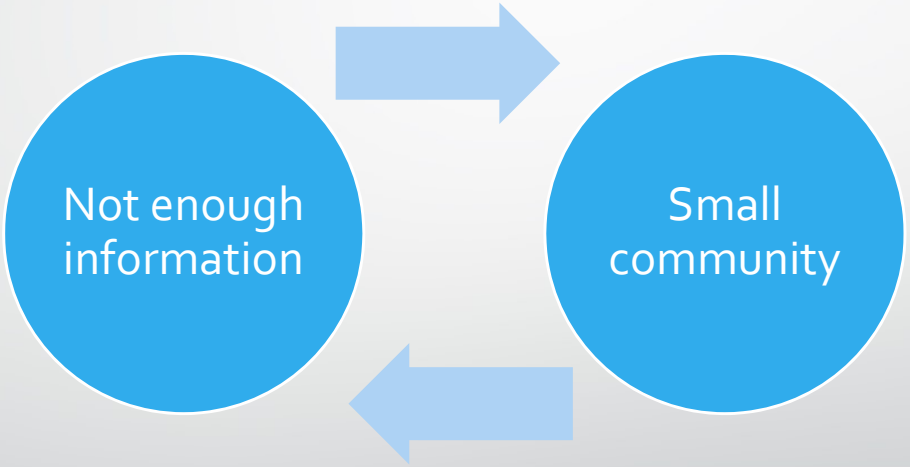
OpenVMS Online Courses

We Have a Problem



VSI Training Options Now

Classroom

- 5 days in Bolton, MA
- Live instructor
- Student Guides and Lab Guides
- Student accounts provided
- $3,500 + trip costs (per person)
- Learning in a group
- Not enough time

Webex

- 5 days anywhere in the world
- Video conferences with an instructor
- Student guides and lab guides
- Student accounts provided
- Time difference
- Learning in a group
- Not enough time

Introducing Online Courses

- **Study wherever you are, whenever you want, for as long as you need**
- Personalized study plans
- Go at your own pace
- Video lectures and interactive tasks
- Student accounts provided
- Community of instructors and learners

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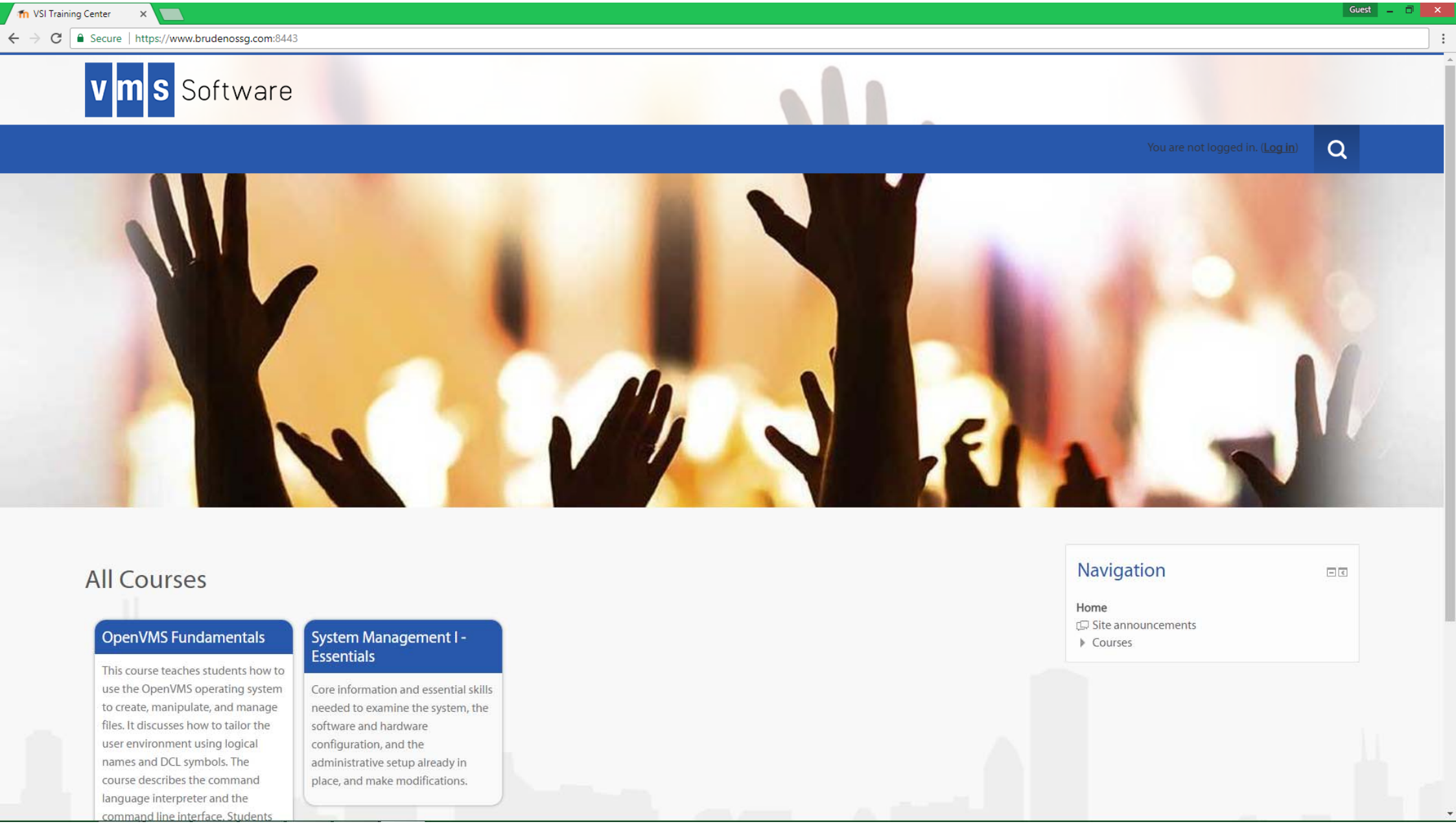
VSI Training Center
Guest
Secure | https://www.brudenossg.com:8443
vms Software
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All Courses
OpenVMS Fundamentals
This course teaches students how to use the OpenVMS operating system to create, manipulate, and manage files. It discusses how to tailor the user environment using logical names and DCL symbols. The course describes the command language interpreter and the command line interface. Students
System Management I - Essentials
Core information and essential skills needed to examine the system, the software and hardware configuration, and the administrative setup already in place, and make modifications.
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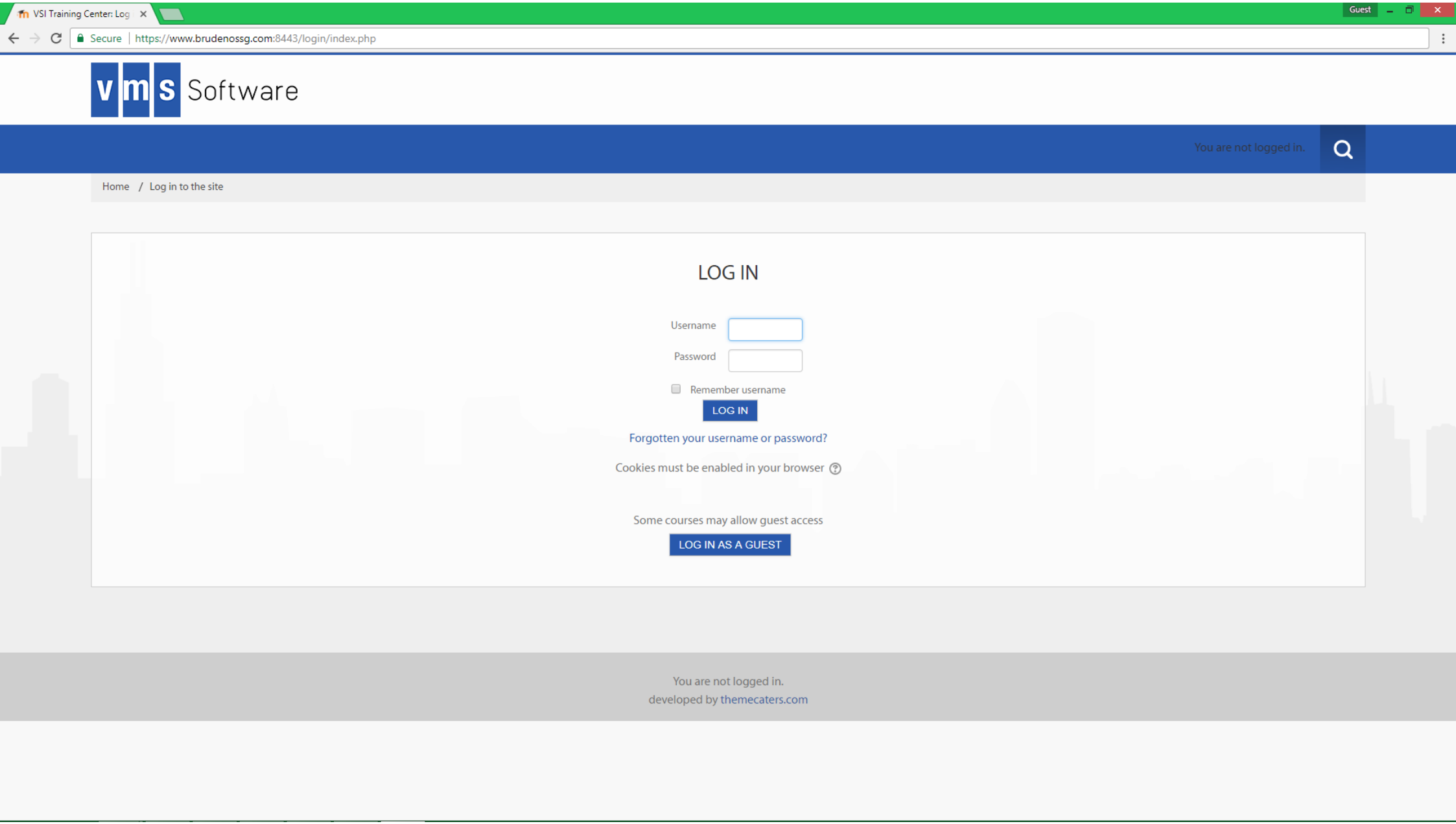
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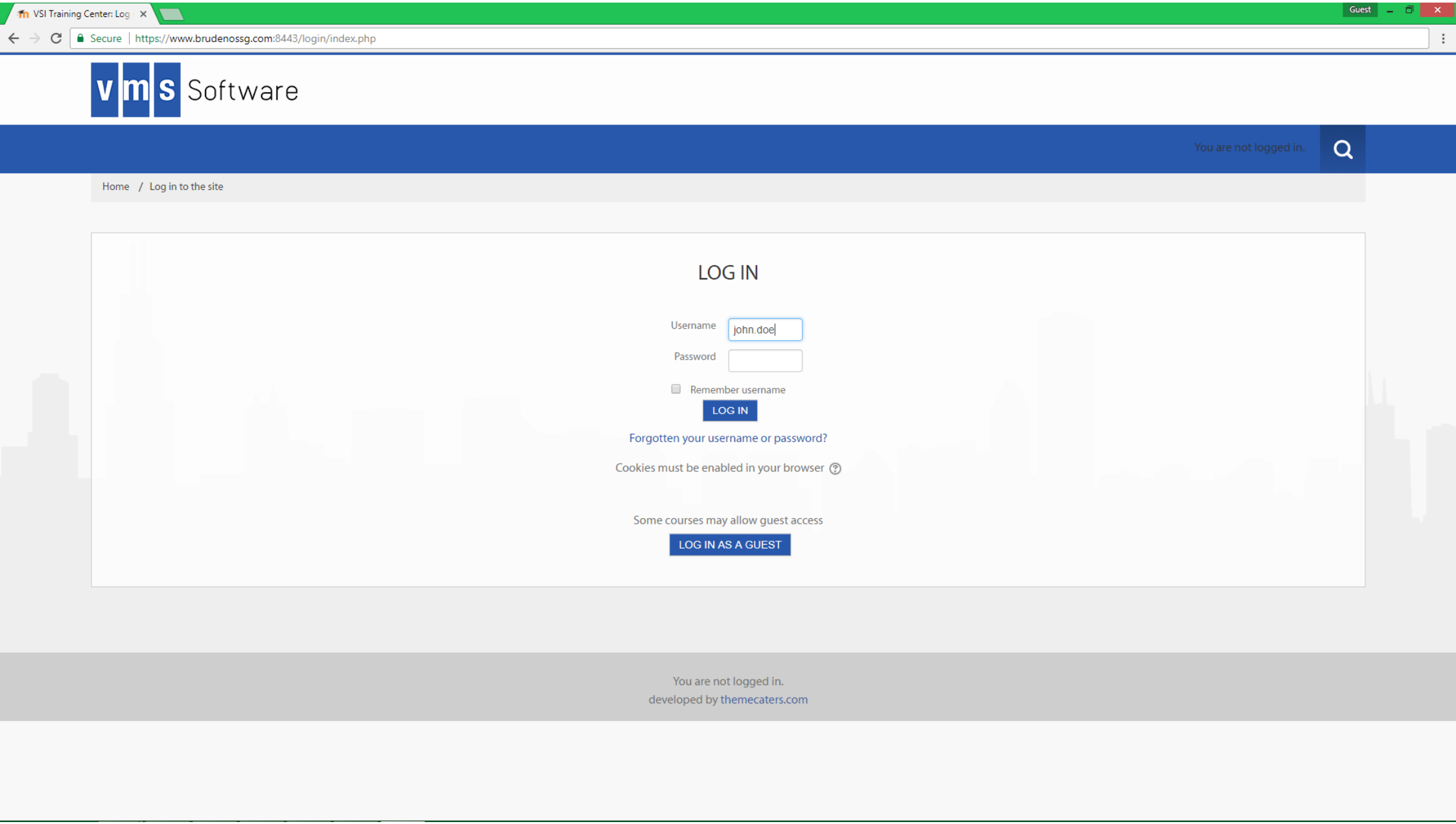
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Remember username
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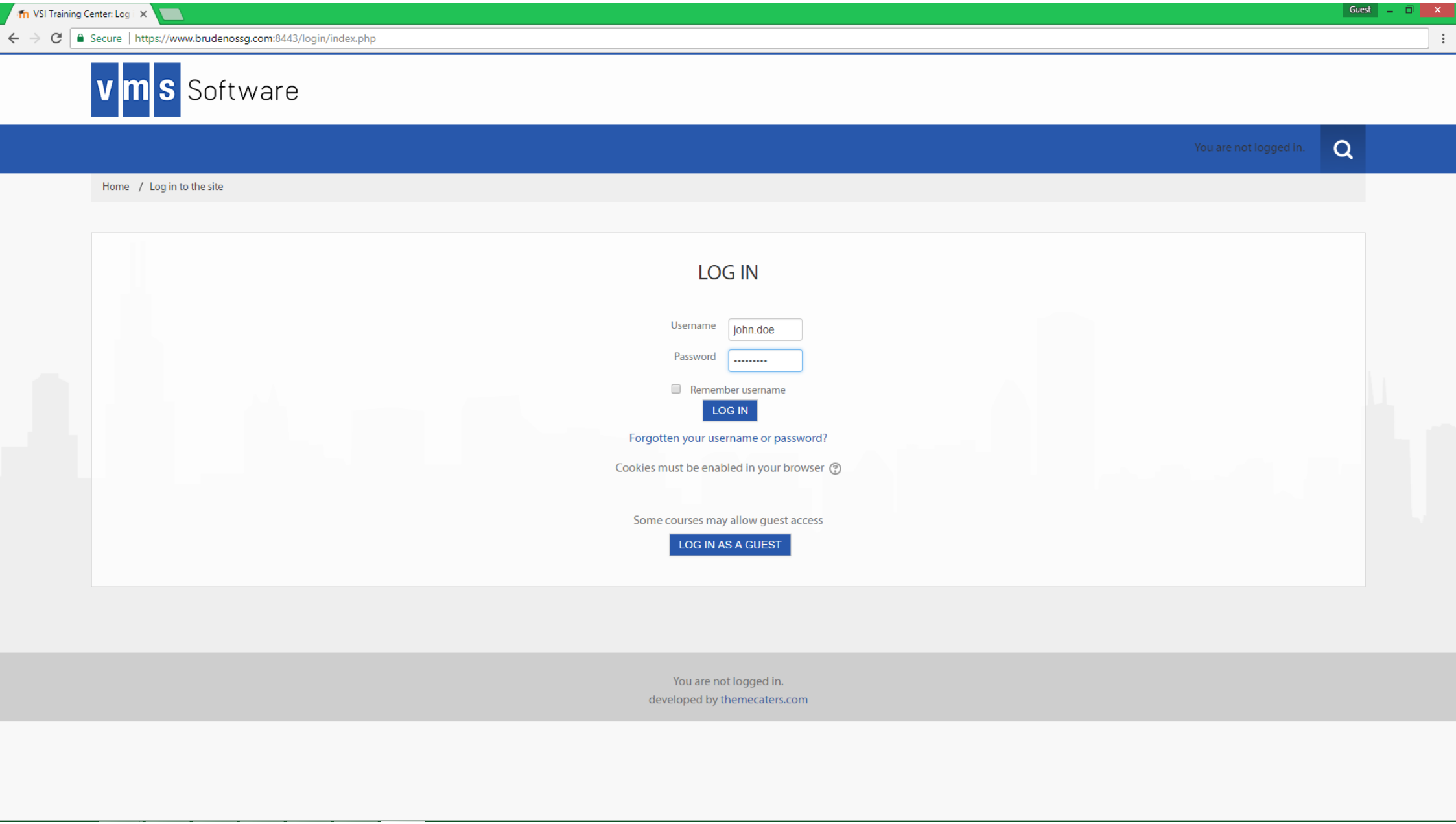
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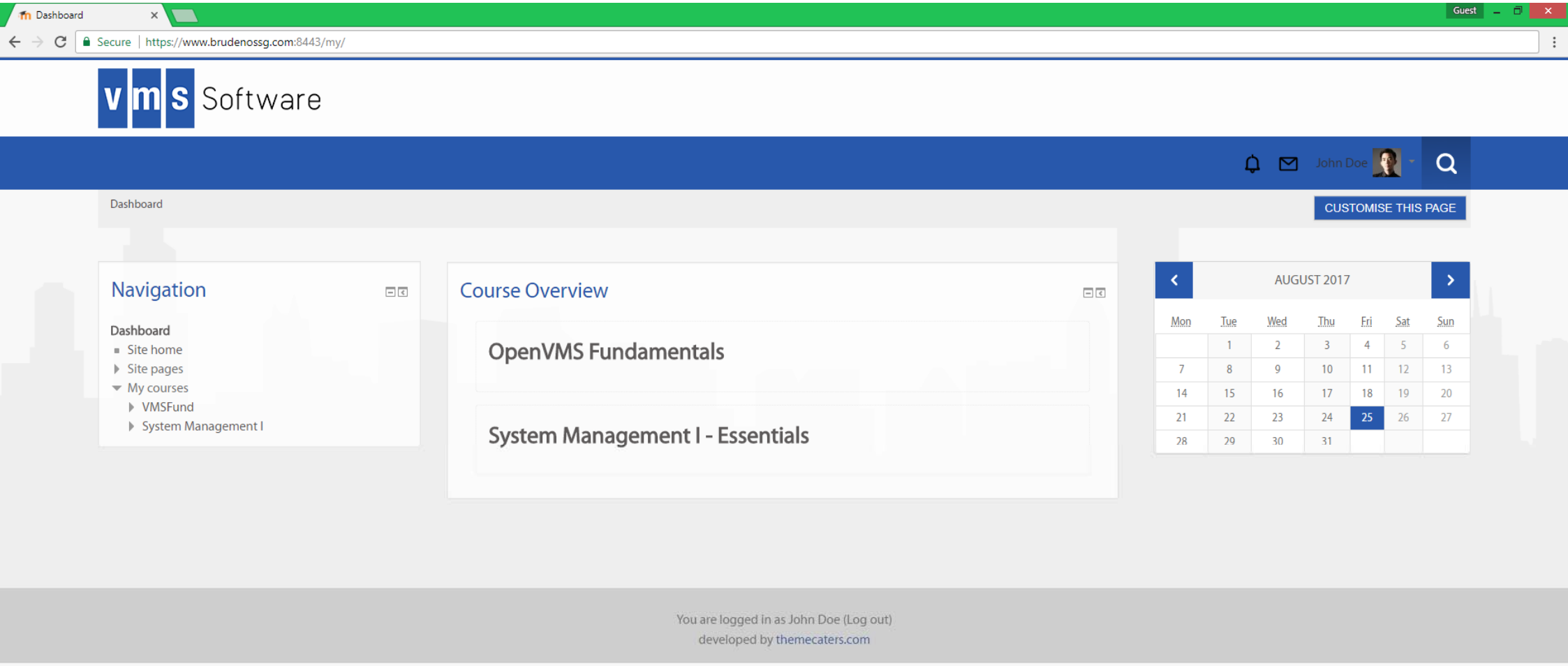
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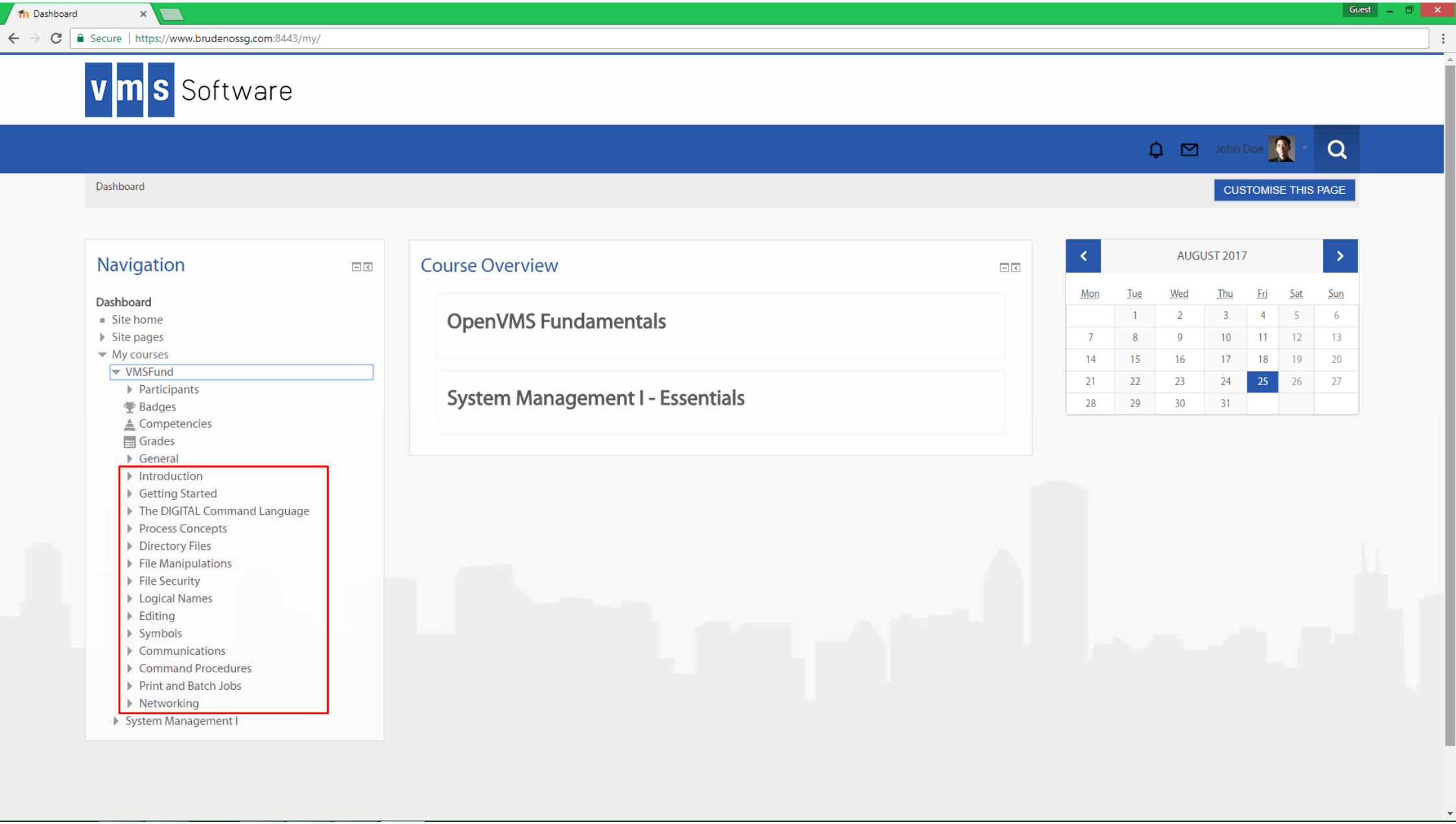
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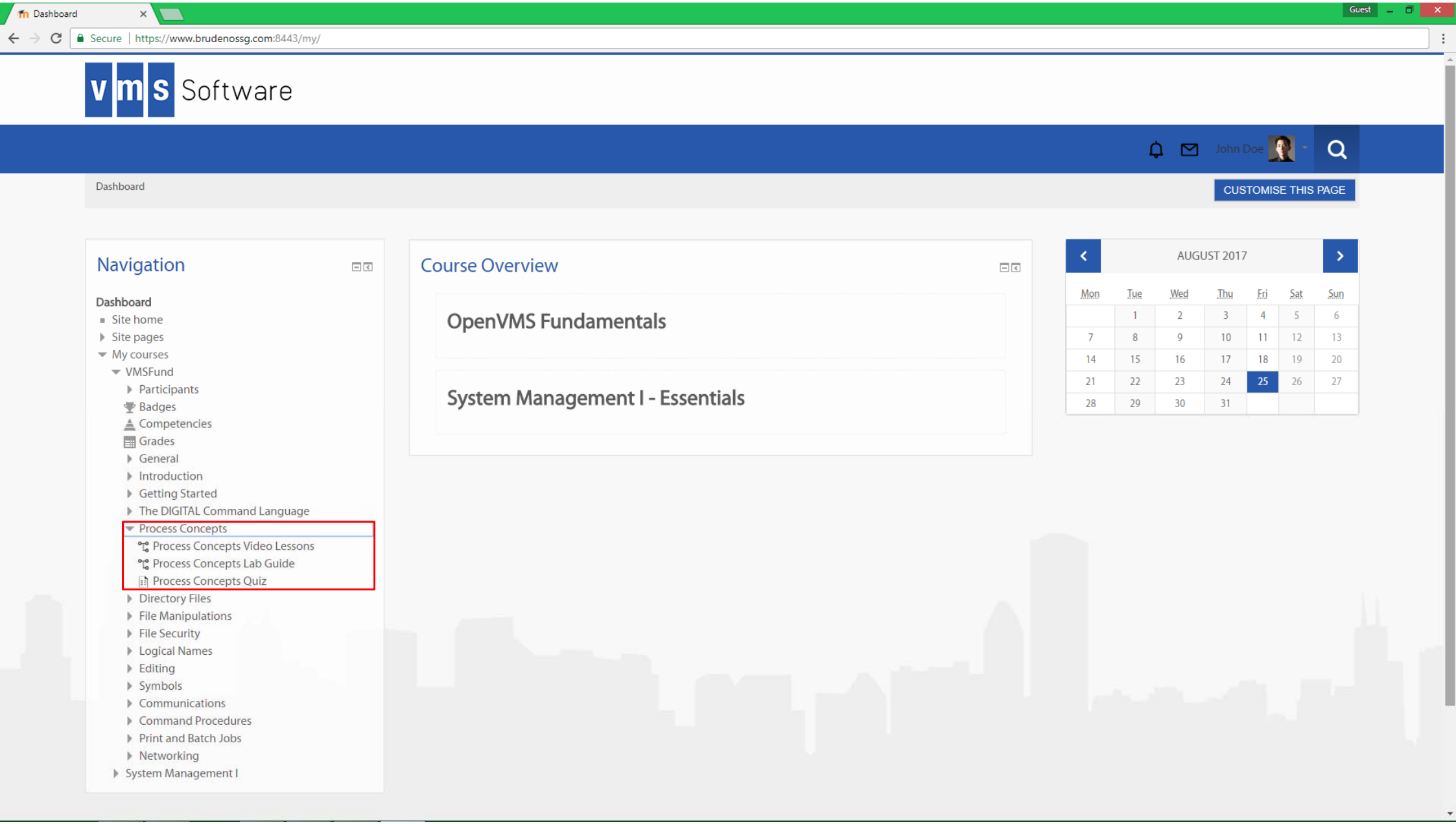
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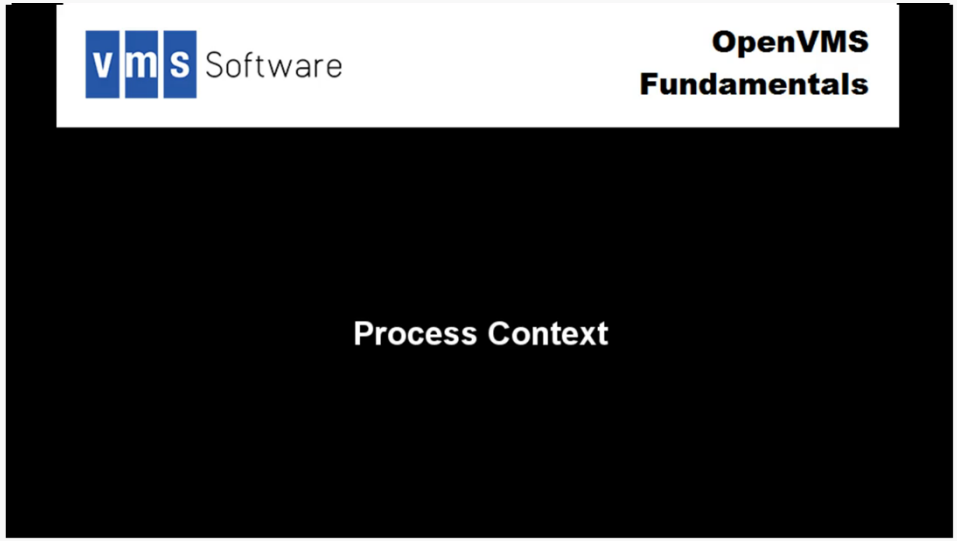

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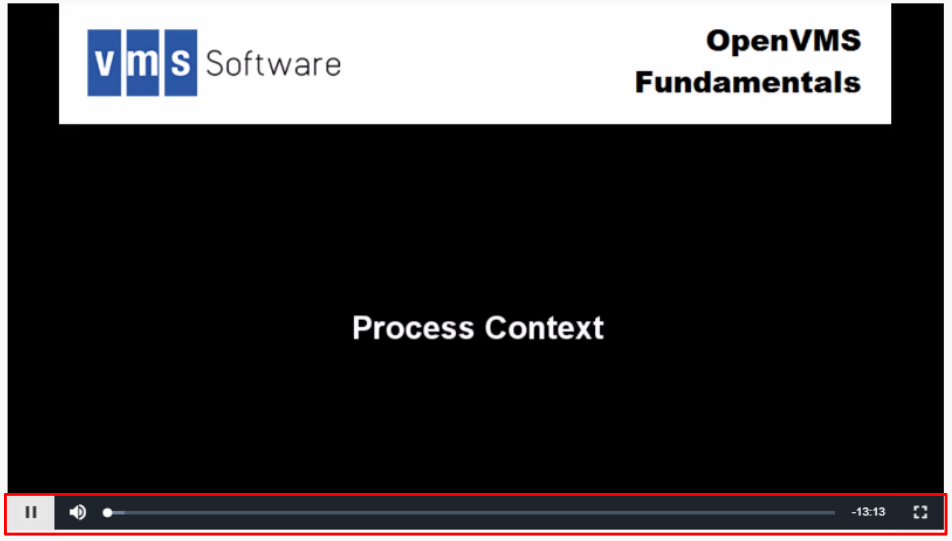

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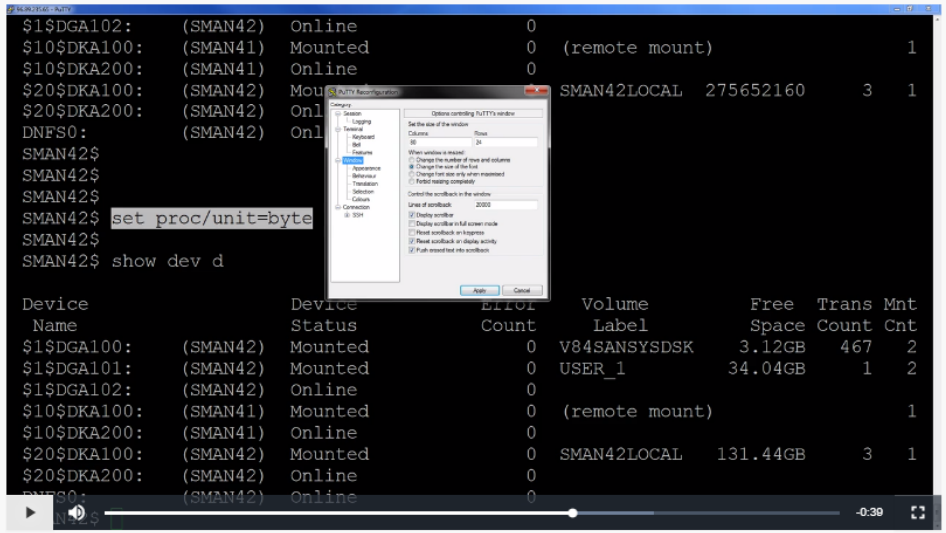
Changing Process Prompt (1:47)



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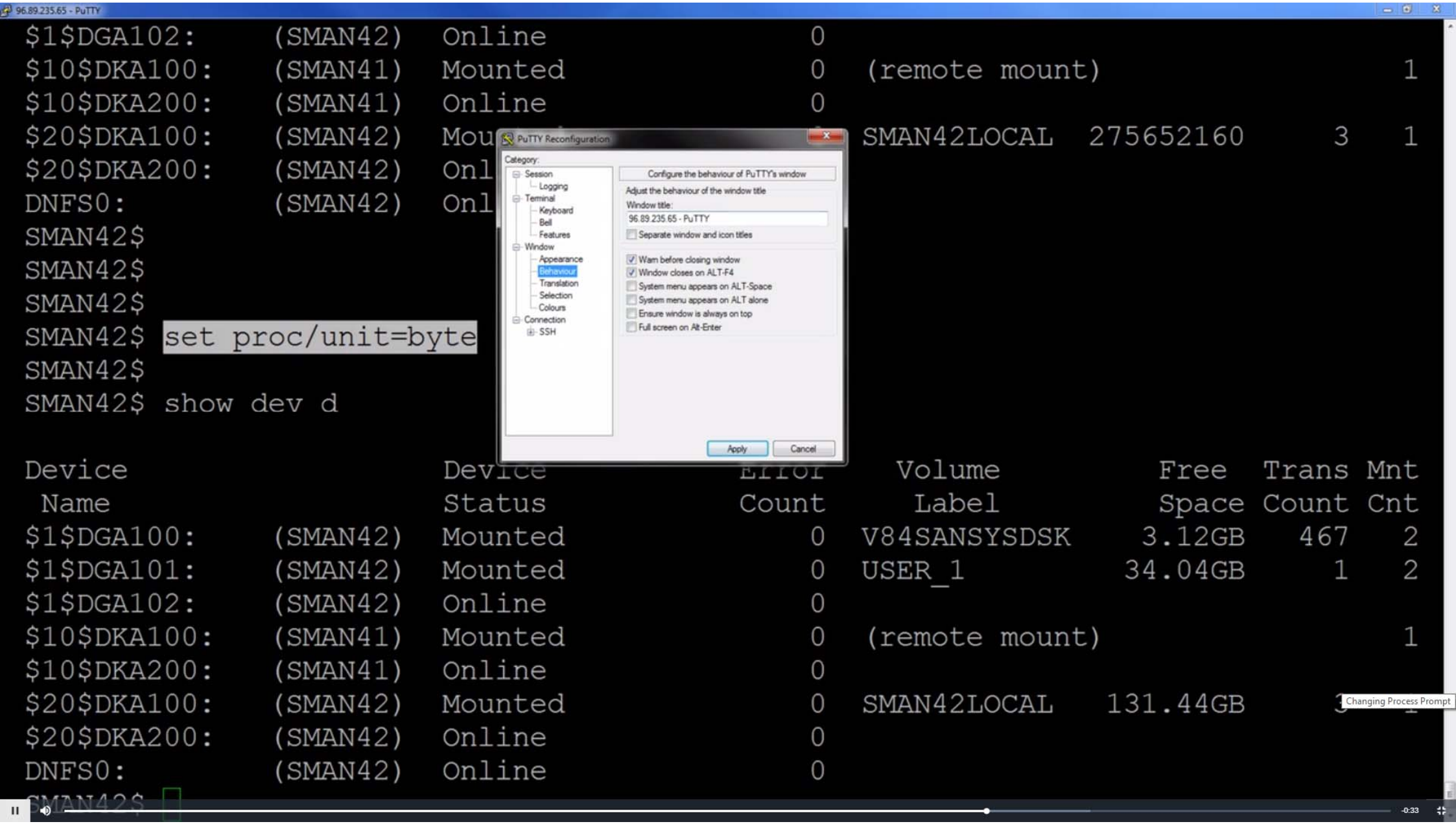
96.89.235.65 - PuTTY
1DGA102: (SMAN42) Online 0
10DKA100: (SMAN41) Mounted 0 (remote mount) 1
10DKA200: (SMAN41) Online 0
20DKA100: (SMAN42) Mou SMAN42LOCAL 275652160 3 1
20DKA200: (SMAN42) Onl
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SMAN42$
SMAN42$
SMAN42$
SMAN42$ set proc/unit=byte
SMAN42$
SMAN42$ show dev d
PuTTY Reconfiguration
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Adjust the behaviour of the window title
Window title:
96.89.235.65 - PuTTY
Separate window and icon titles
Warn before closing window
Window closes on ALT-F4
System menu appears on ALT-Space
System menu appears on ALT alone
Ensure window is always on top
Full screen on Alt-Enter
Apply
Cancel
Device Name Device Status Error Count Volume Label Free Space Trans Count Mnt Cnt
1DGA100: (SMAN42) Mounted 0 V84SANSYSDSK 3.12GB 467 2
1DGA101: (SMAN42) Mounted 0 USER_1 34.04GB 1 2
1DGA102: (SMAN42) Online 0
10DKA100: (SMAN41) Mounted 0 (remote mount) 1
10DKA200: (SMAN41) Online 0
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20DKA200: (SMAN42) Online 0
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SMAN42$
Changing Process Prompt
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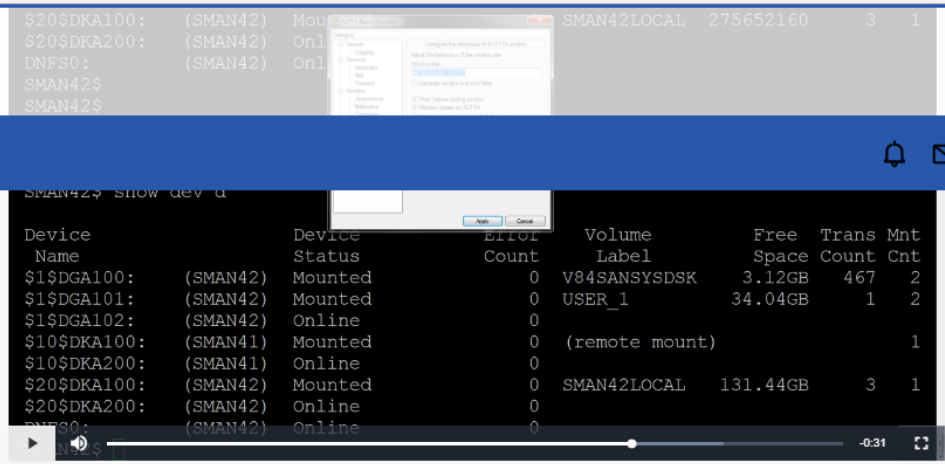
vms Software



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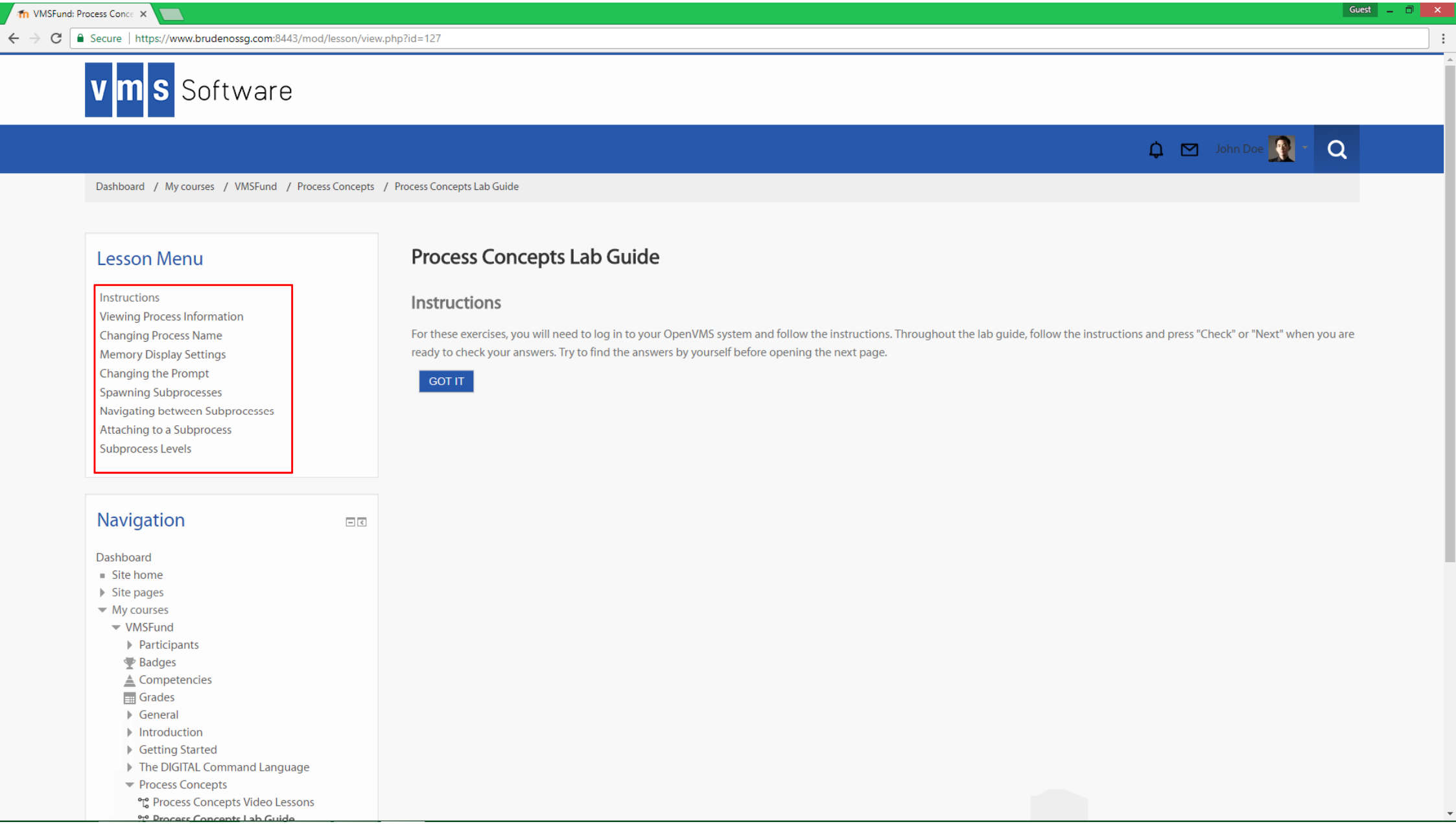
FINISH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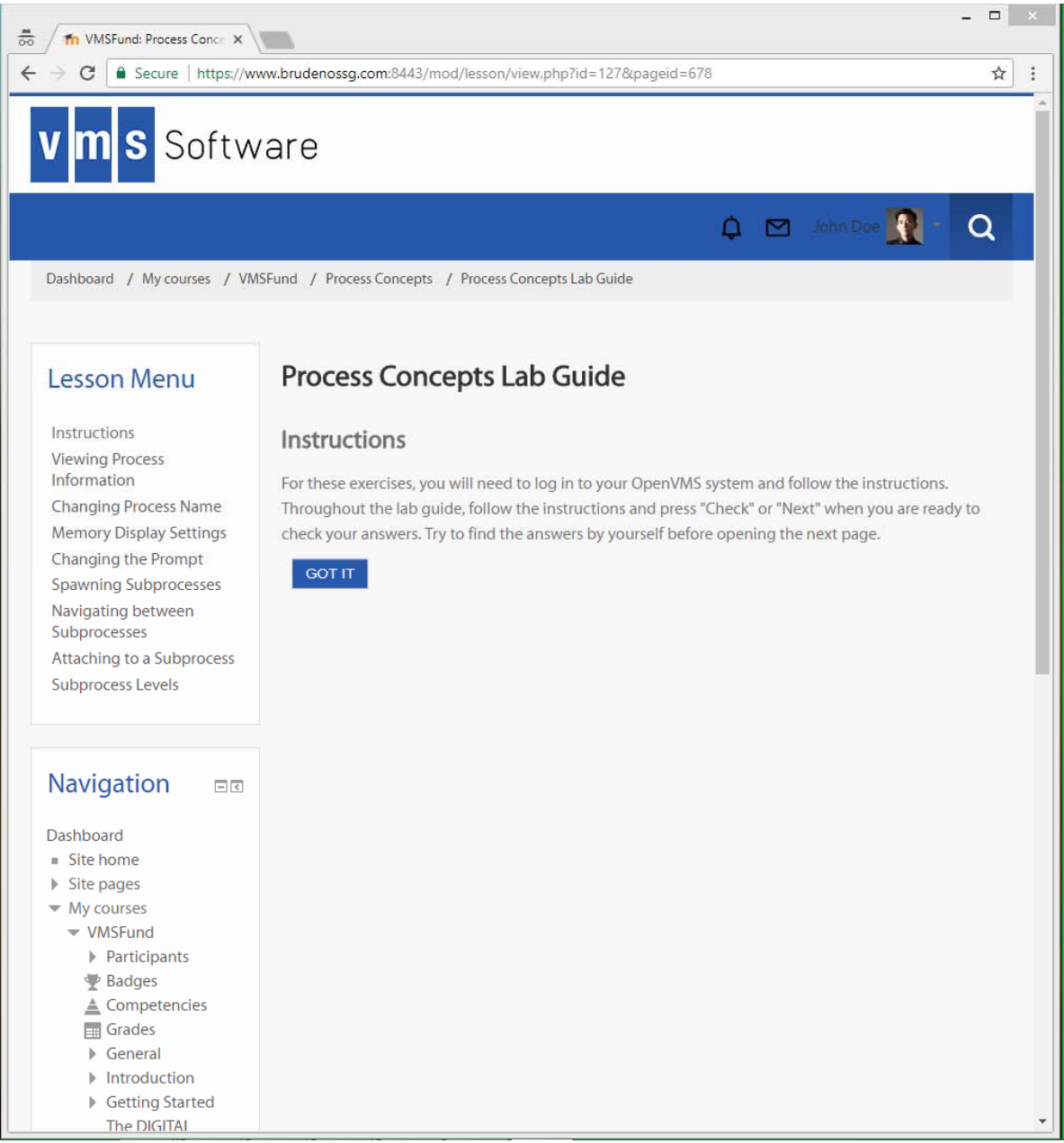
Instructions
For these exercises, you will need to log in to your OpenVMS system and follow the instructions. Throughout the lab guide, follow the instructions and press "Check" or "Next" when you are ready to check your answers. Try to find the answers by yourself before opening the next page.
GOT IT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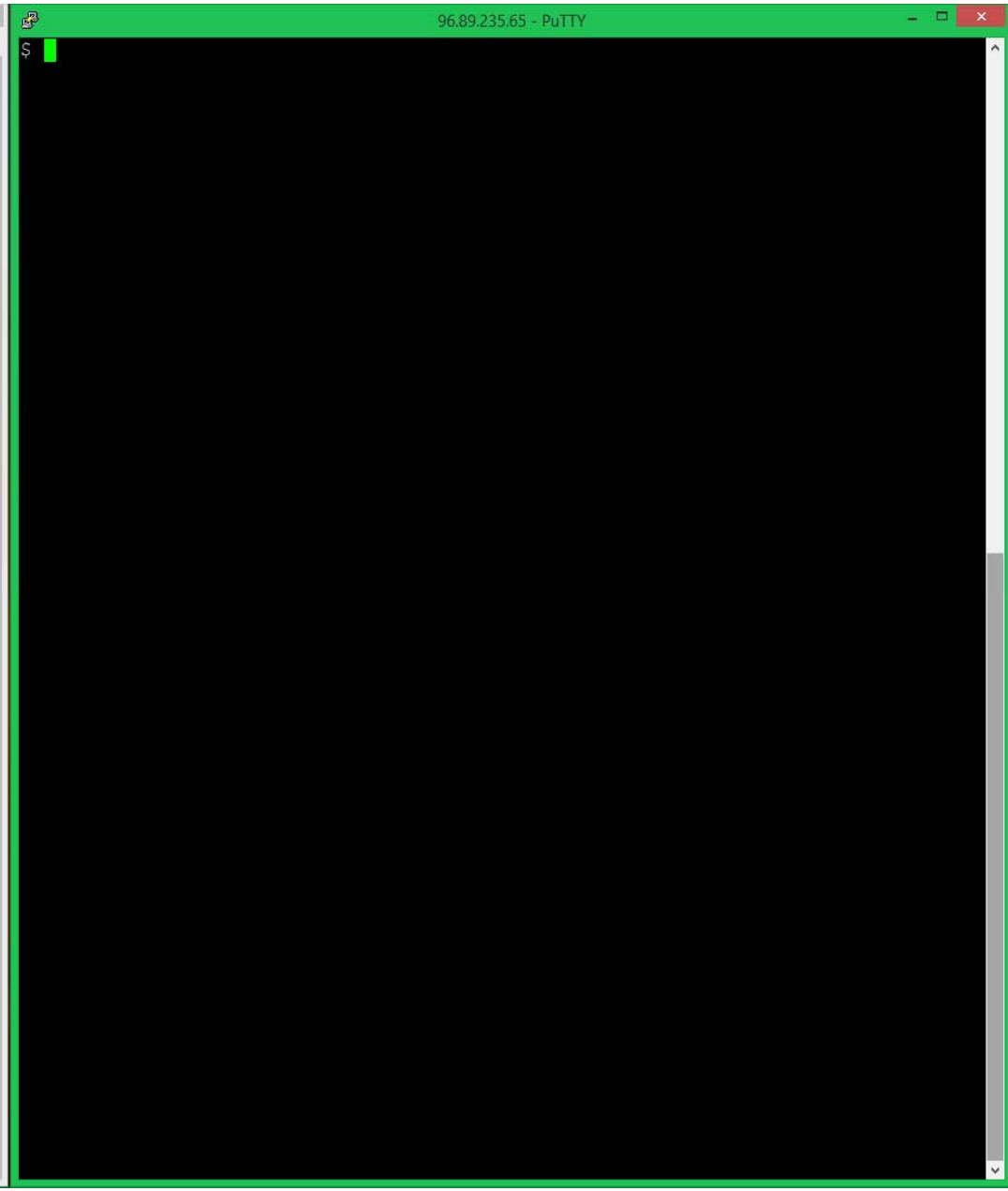
96.89.235.65 - PuTTY
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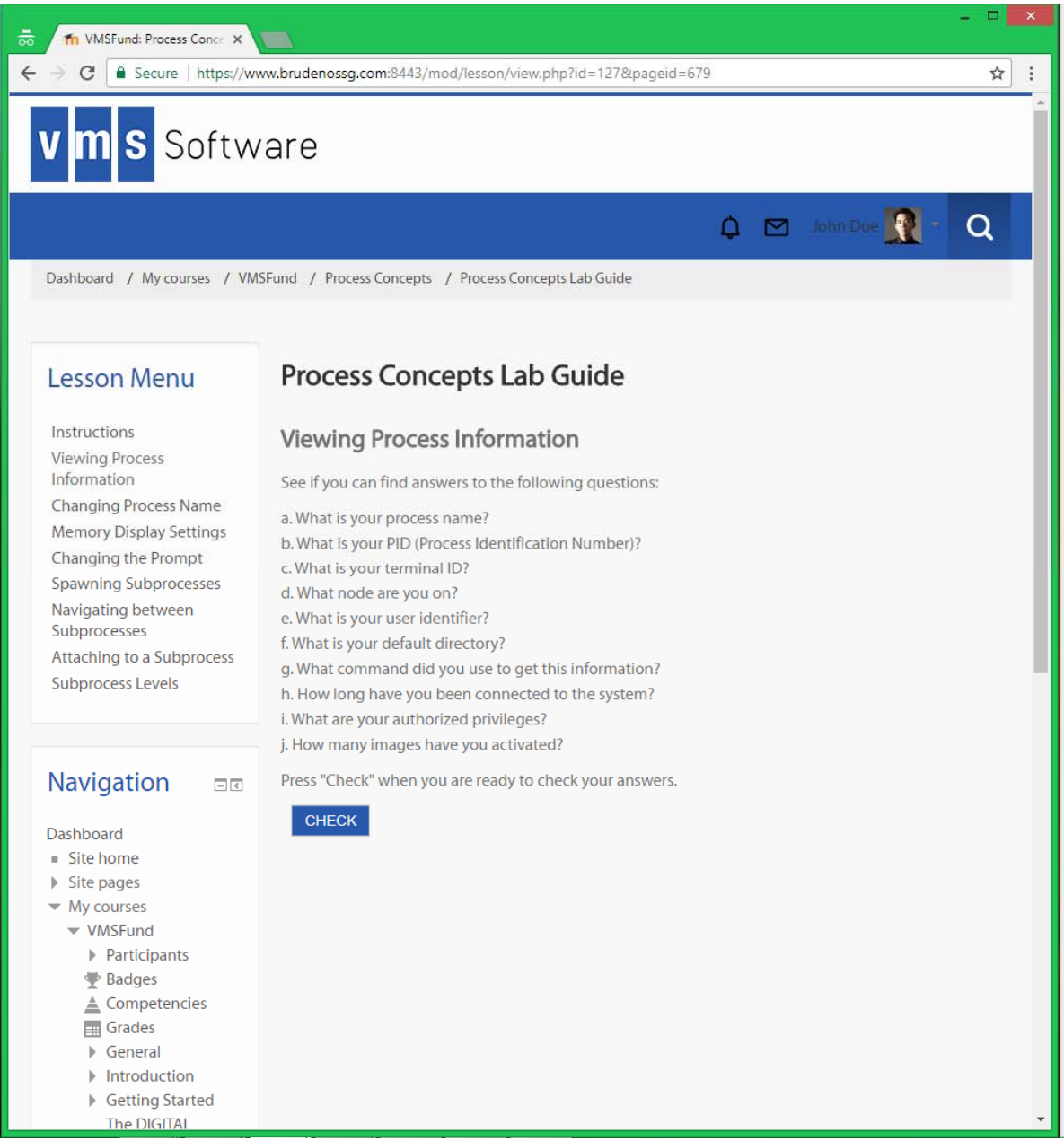
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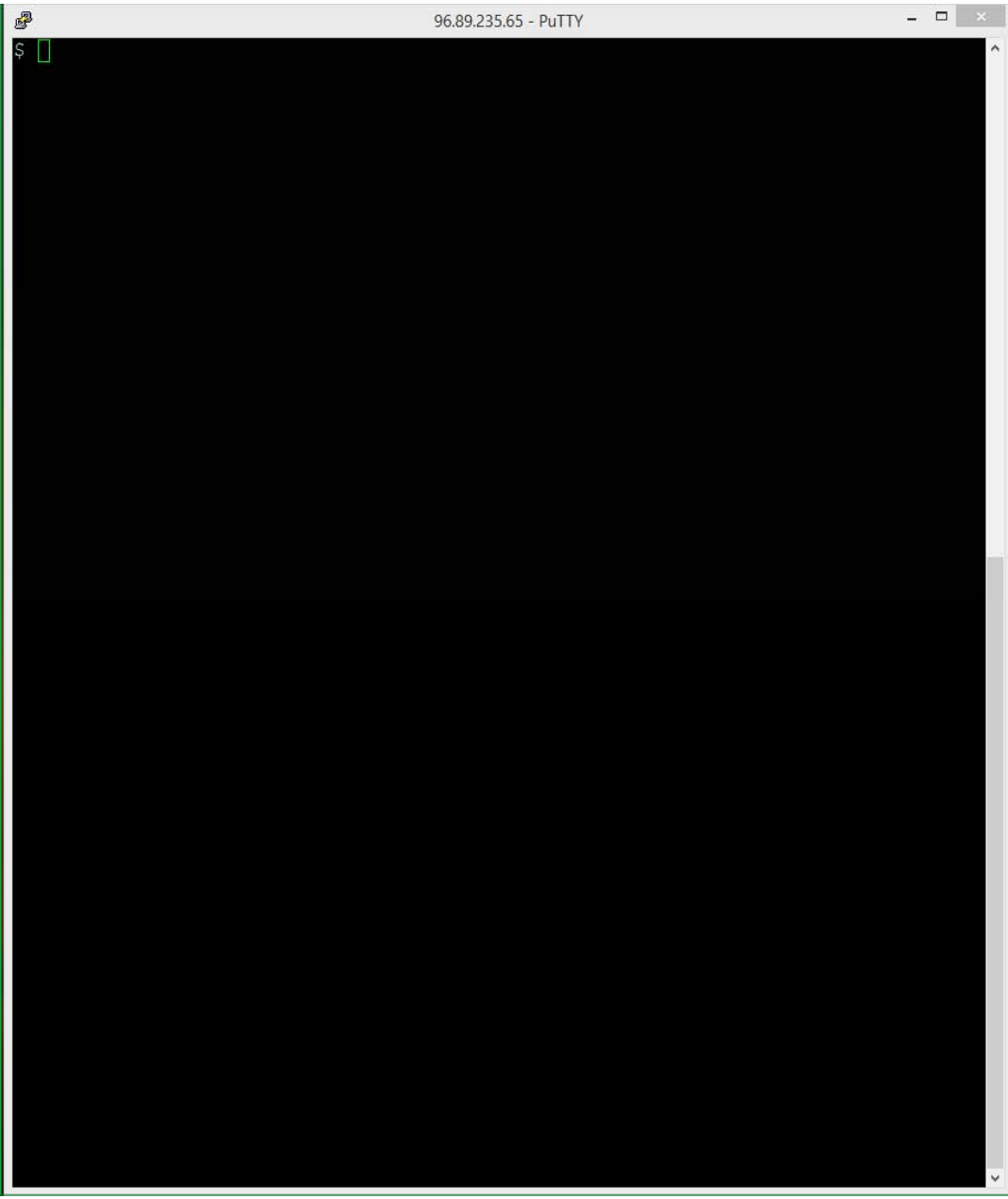
Viewing Process Information
See if you can find answers to the following questions:
a. What is your process name?
b. What is your PID (Process Identification Number)?
c. What is your terminal ID?
d. What node are you on?
e. What is your user identifier?
f. What is your default directory?
g. What command did you use to get this information?
h. How long have you been connected to the system?
i. What are your authorized privileges?
j. How many images have you activated?
Press "Check" when you are ready to check your answers.
CHECK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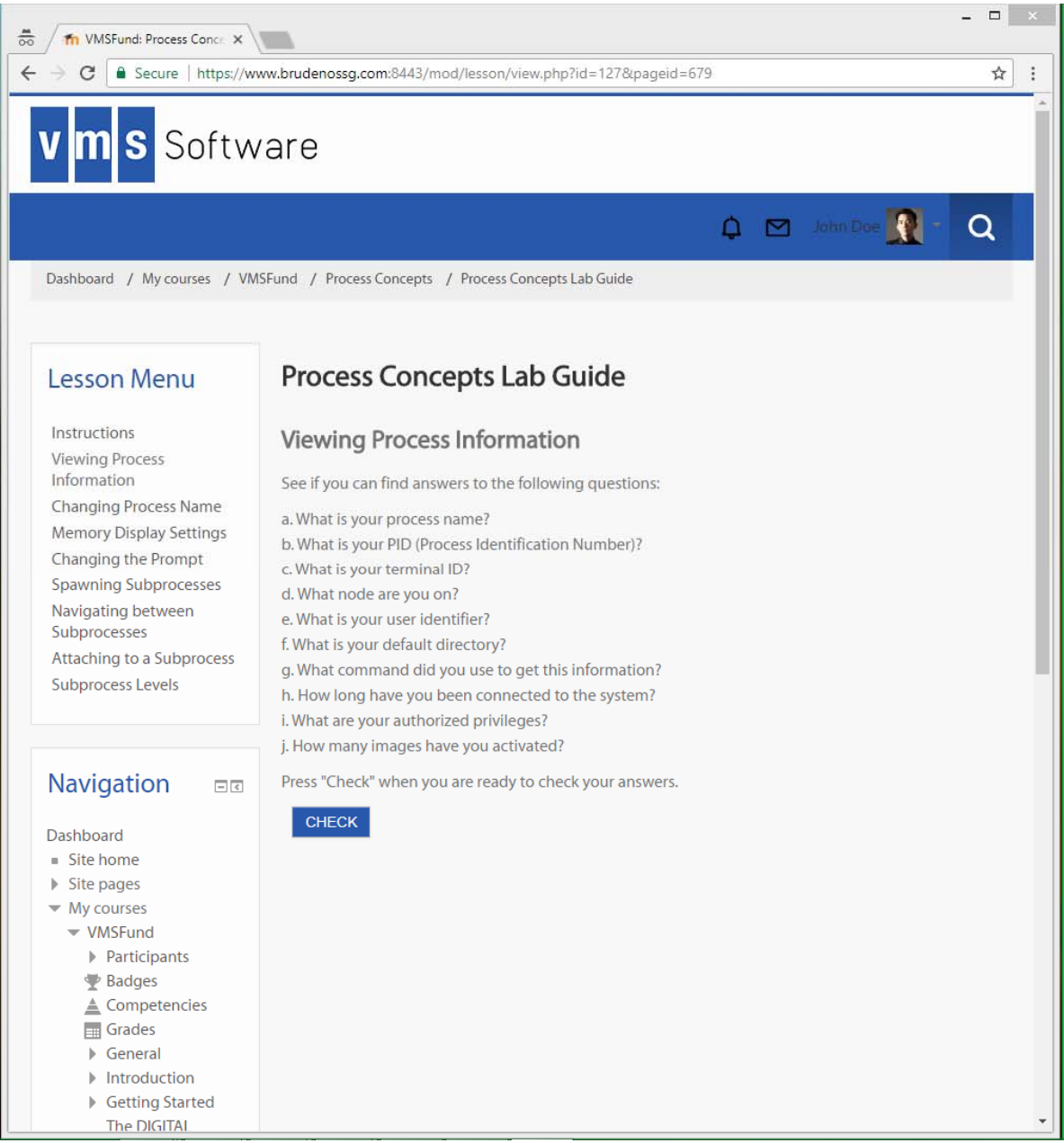
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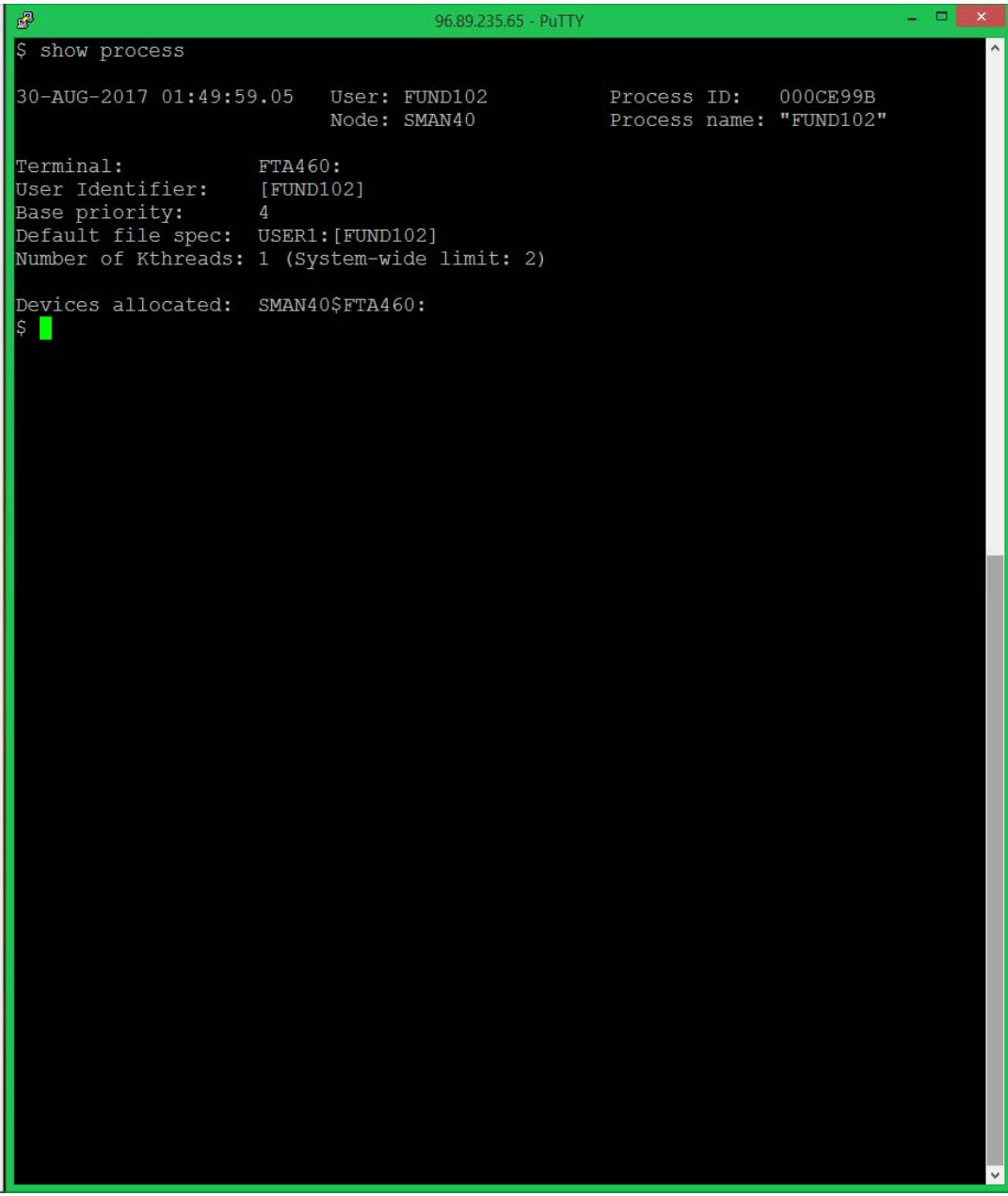
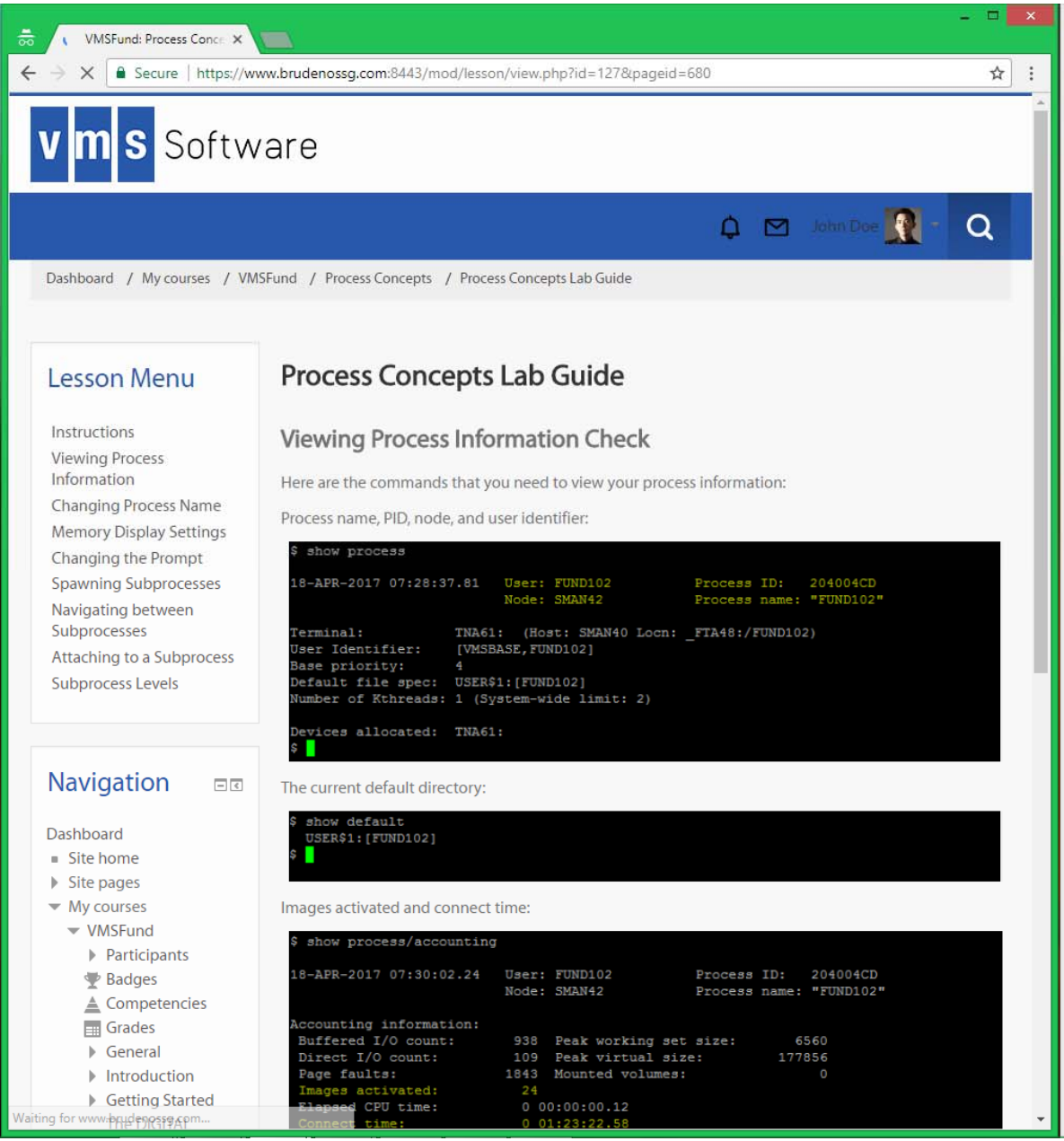

96.89.235.65 - PuTTY
$ show process
30-AUG-2017 01:49:59.05 User: FUND102 Process ID: 000CE99B
Node: SMAN40 Process name: "FUND102"
Terminal: FTA460:
User Identifier: [FUND102]
Base priority: 4
Default file spec: USER1:[FUND102]
Number of Kthreads: 1 (System-wide limit: 2)
Devices allocated: SMAN40$FTA460:
$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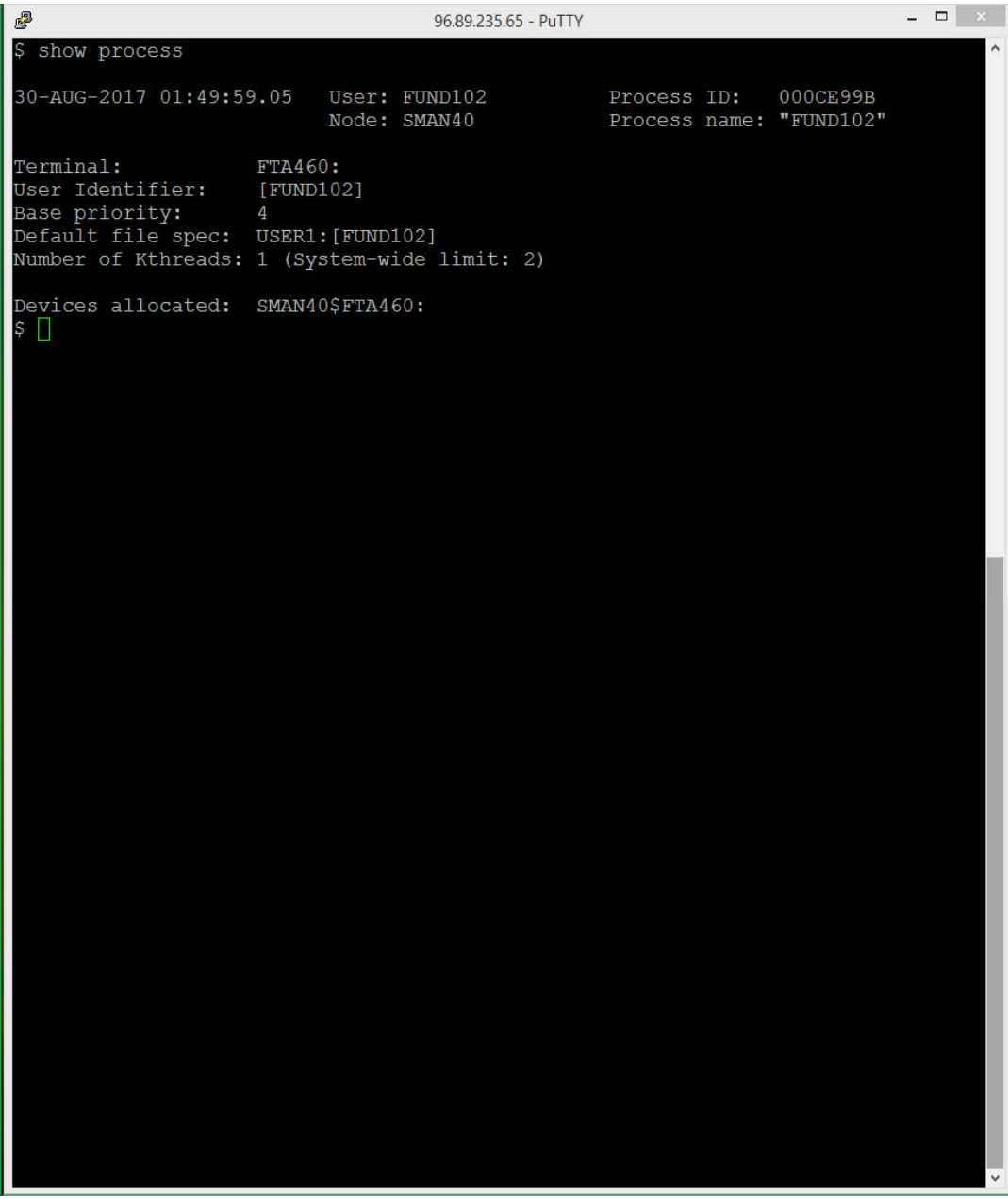
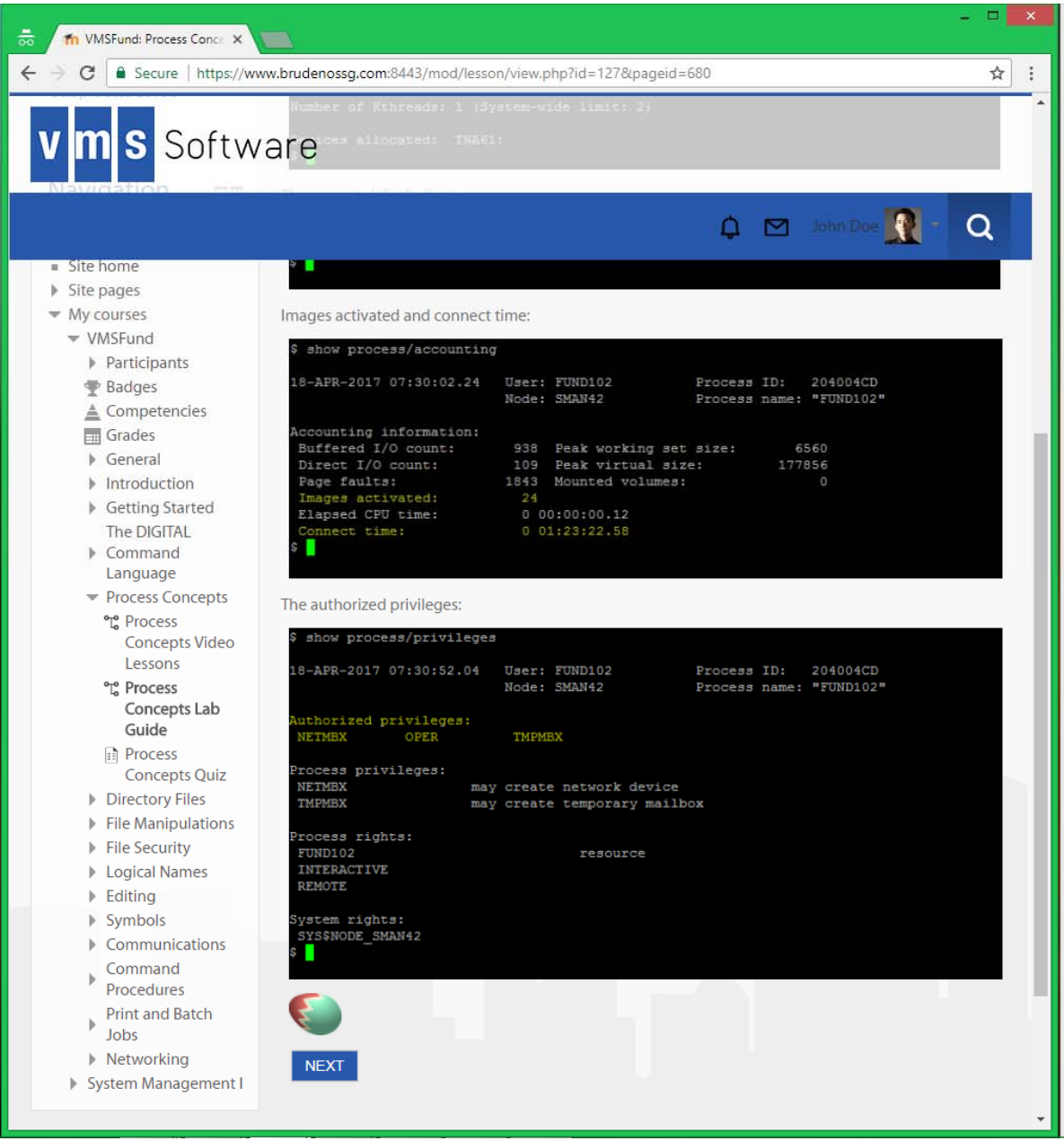
Viewing Process Information Check
Here are the commands that you need to view your process information:
Process name, PID, node, and user identifier:
$ show process
18-APR-2017 07:28:37.81 User: FUND102 Process ID: 204004CD
Node: SMAN42 Process name: "FUND102"
Terminal: TNA61: (Host: SMAN40 Locn: _FTA48:/FUND102)
User Identifier: [VMSBASE,FUND102]
Base priority: 4
Default file spec: USER$1:[FUND102]
Number of Kthreads: 1 (System-wide limit: 2)
Devices allocated: TNA61:
$
The current default directory:
$ show default
USER$1:[FUND102]
$
Images activated and connect time:
$ show process/accounting
18-APR-2017 07:30:02.24 User: FUND102 Process ID: 204004CD
Node: SMAN42 Process name: "FUND102"
Accounting information:
Buffered I/O count: 938 Peak working set size: 6560
Direct I/O count: 109 Peak virtual size: 177856
Page faults: 1843 Mounted volumes: 0
Images activated: 24
Elapsed CPU time: 0 00:00:00.12
Connect time: 0 01:23:22.58
Waiting for www.brudenossg.com...


96.89.235.65 - PuTTY
$ show process
30-AUG-2017 01:49:59.05 User: FUND102 Process ID: 000CE99B
Node: SMAN40 Process name: "FUND102"
Terminal: FTA460:
User Identifier: [FUND102]
Base priority: 4
Default file spec: USER1:[FUND102]
Number of Kthreads: 1 (System-wide limit: 2)
Devices allocated: SMAN40$FTA460:
$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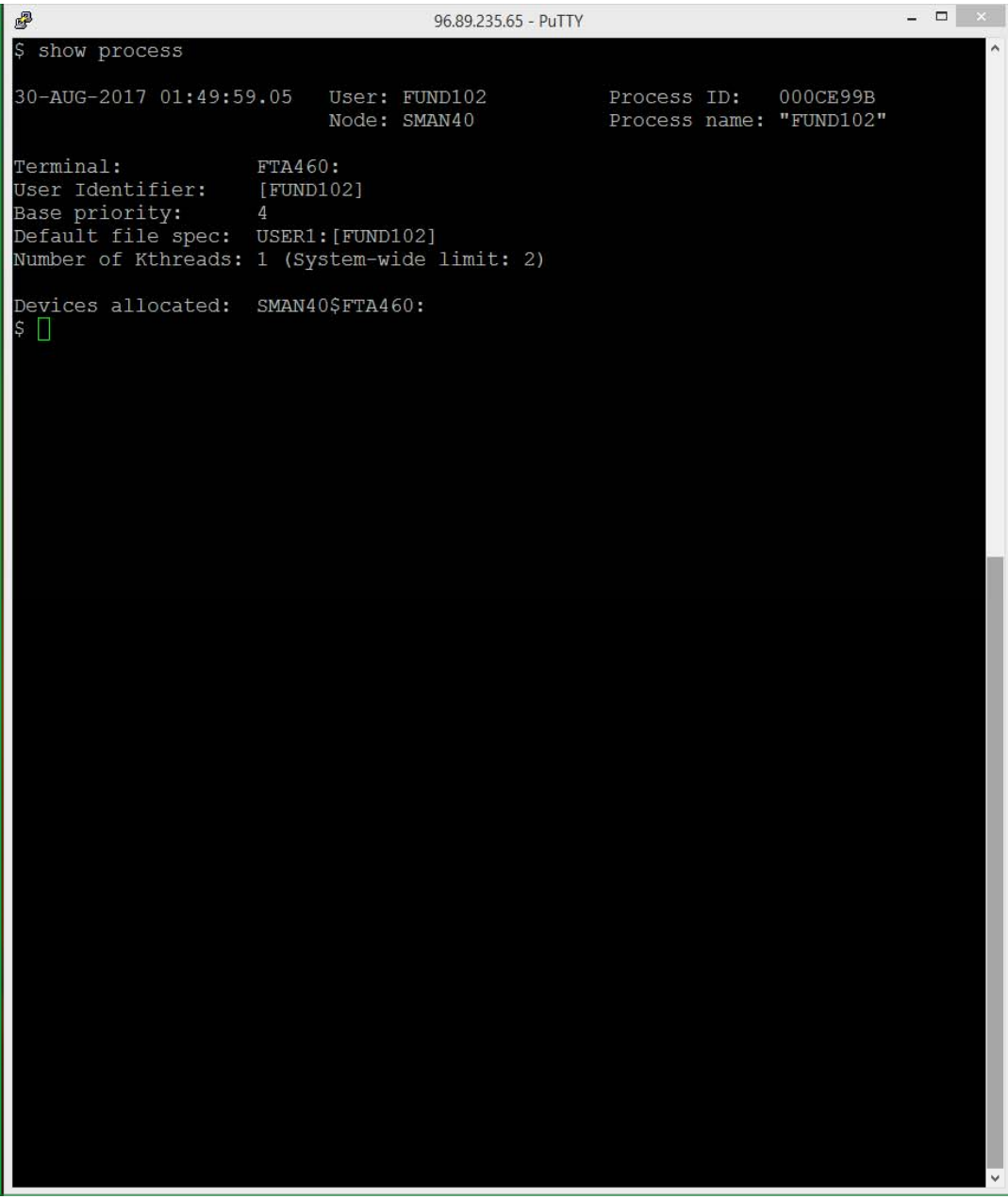
Page faults: 1843 Mounted volumes: 0
Images activated: 24
Elapsed CPU time: 0 00:00:00.12
Connect time: 0 01:23:22.58
The authorized privileges:
$ show process/privileges
18-APR-2017 07:30:52.04 User: FUND102 Process ID: 204004CD
Node: SMAN42 Process name: "FUND102"
Authorized privileges:
NETMBX OPER TMPMBX
Process privileges:
NETMBX may create network device
TMPMBX may create temporary mailbox
Process rights:
FUND102 resource
INTERACTIVE
REMOTE
System rights:
SYS$NODE_SMAN42
NEXT


96.89.235.65 - PuTTY
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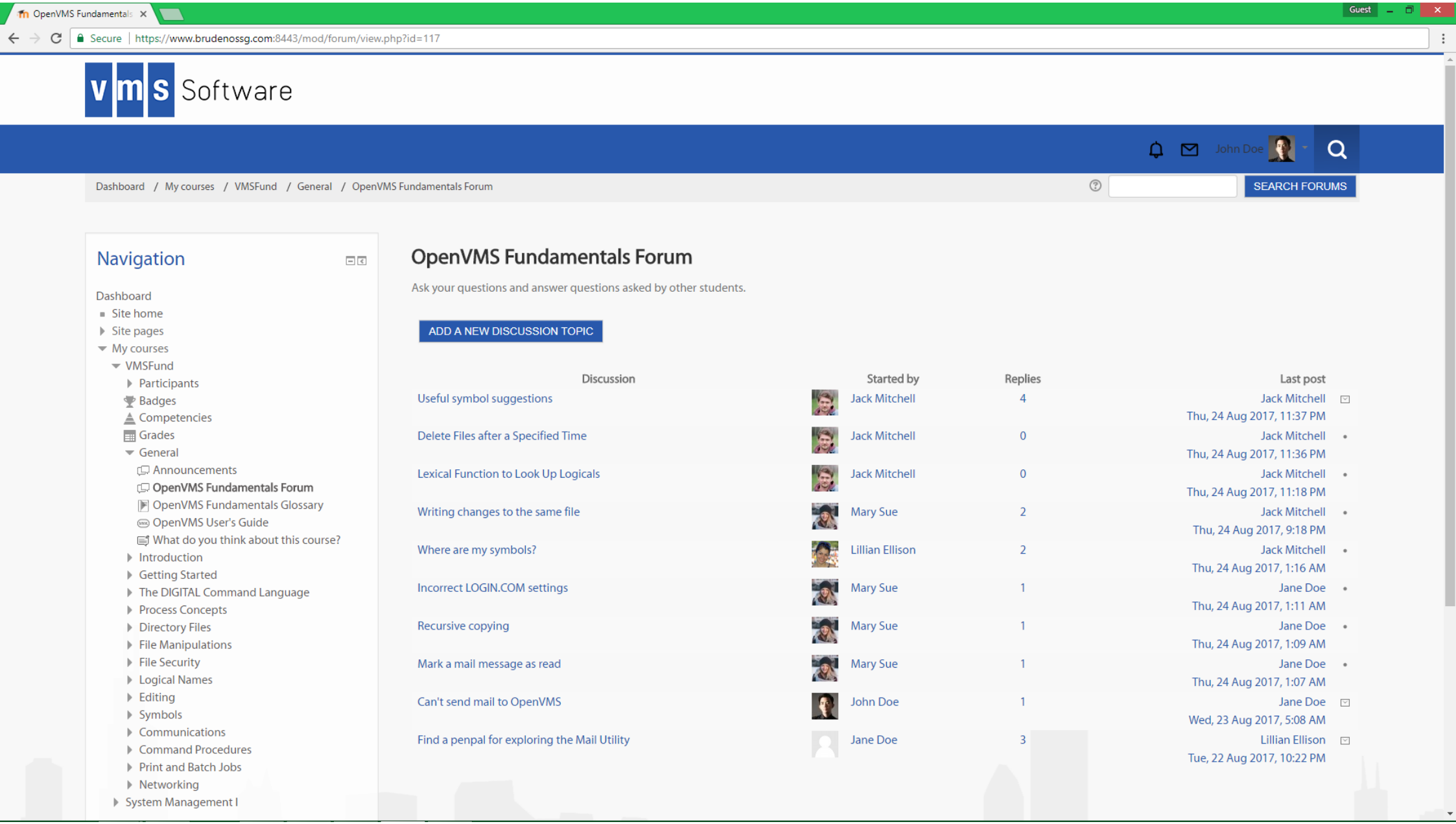
30-AUG-2017 01:49:59.05 User: FUND102 Process ID: 000CE99B
Node: SMAN40 Process name: "FUND102"
Terminal: FTA460:
User Identifier: [FUND102]
Base priority: 4
Default file spec: USER1:[FUND102]
Number of Kthreads: 1 (System-wide limit: 2)
Devices allocated: SMAN40$FTA460:
$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4
Jack Mitchell
Thu, 24 Aug 2017, 11:37 PM
Delete Files after a Specified Time
Jack Mitchell
0
Jack Mitchell
Thu, 24 Aug 2017, 11:36 PM
Lexical Function to Look Up Logicals
Jack Mitchell
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Jack Mitchell
Thu, 24 Aug 2017, 11:18 PM
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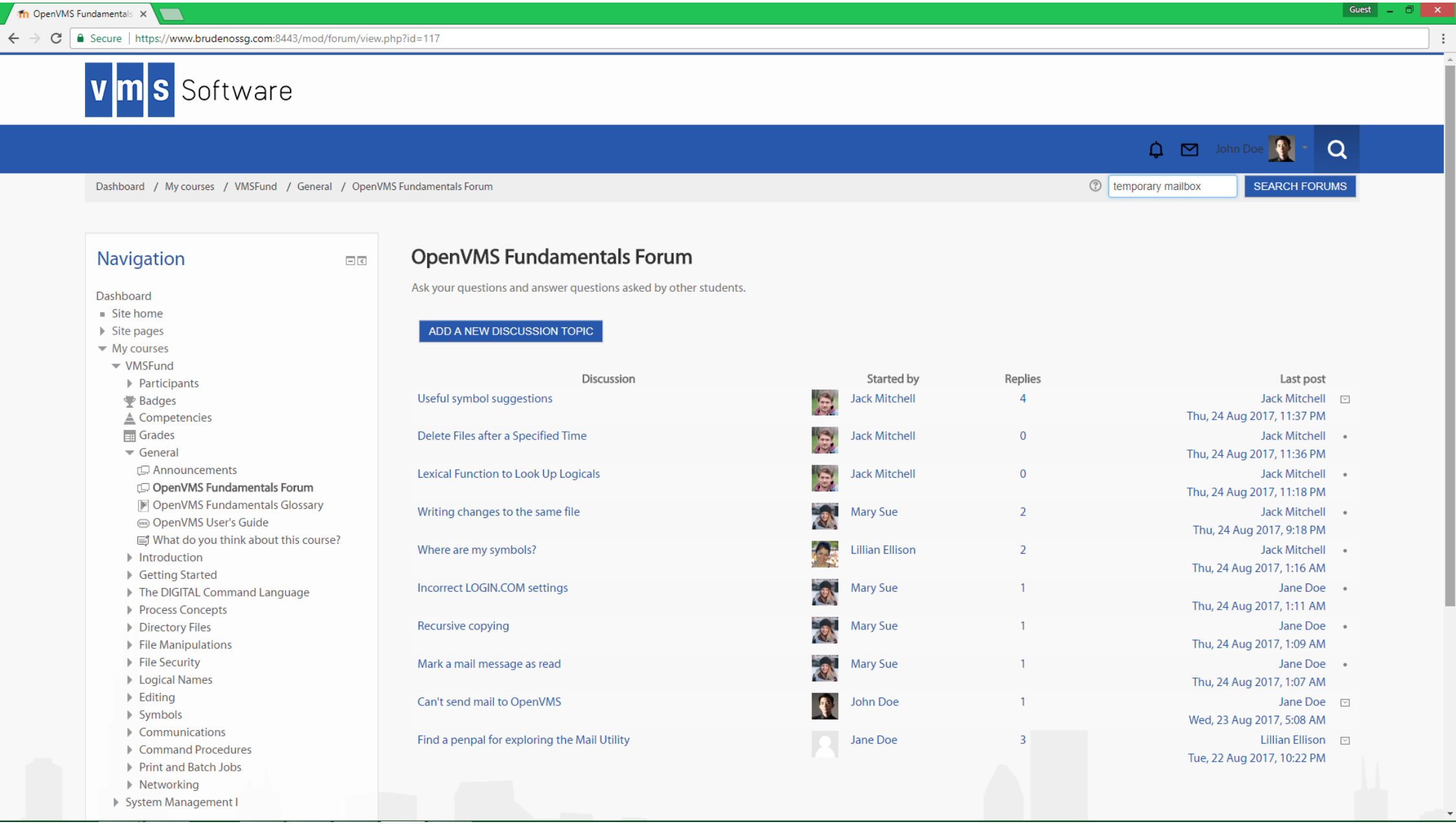
Can't send mail to OpenVMS
John Doe
1
Jane Doe
Wed, 23 Aug 2017, 5:08 AM
Find a penpal for exploring the Mail Utility
Jane Doe
3
Lillian Ellison
Tue, 22 Aug 2017, 10:22 PM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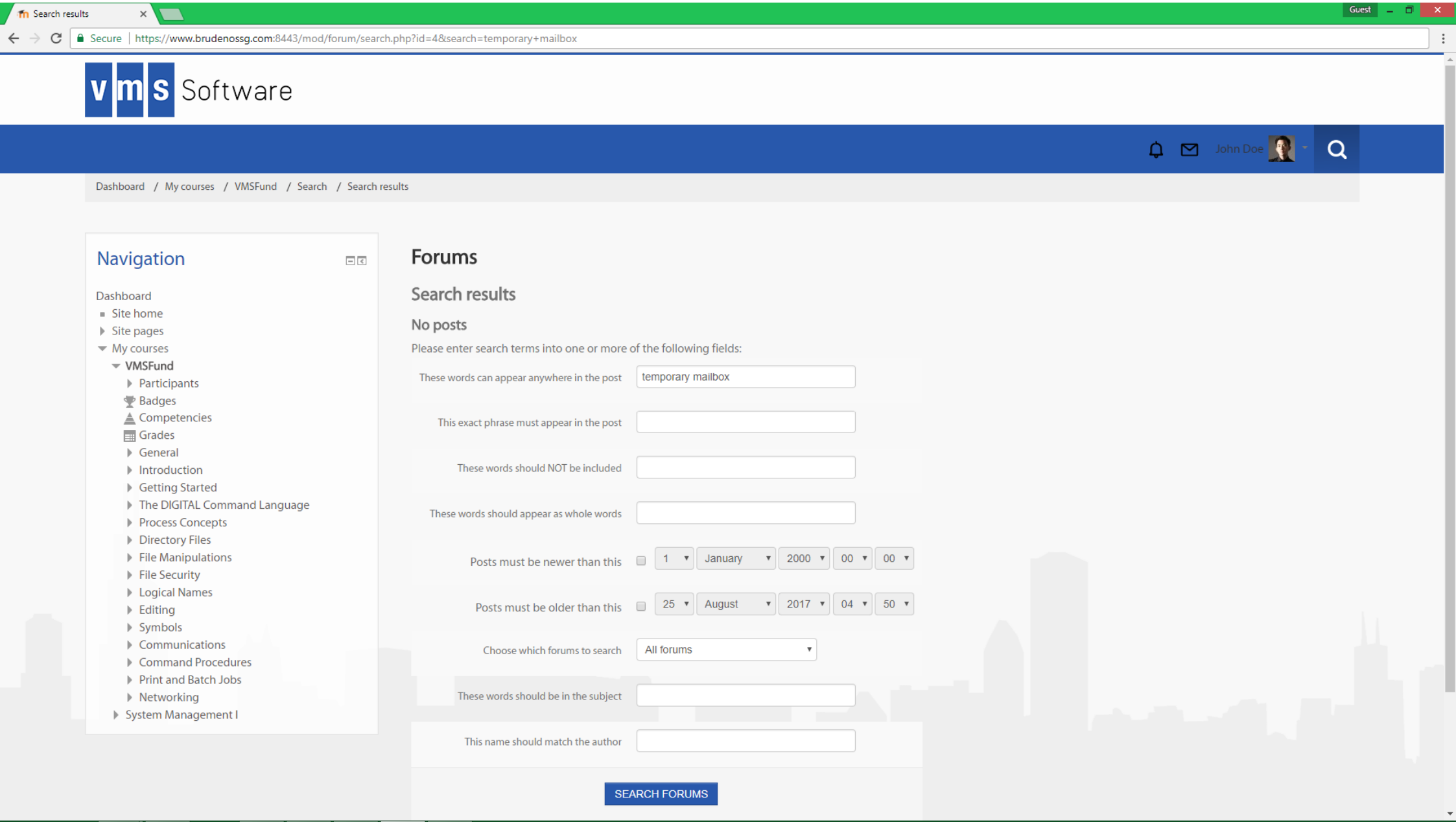
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This exact phrase must appear in the post
These words should NOT be included
These words should appear as whole words
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Posts must be older than this
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These words should be in the subject
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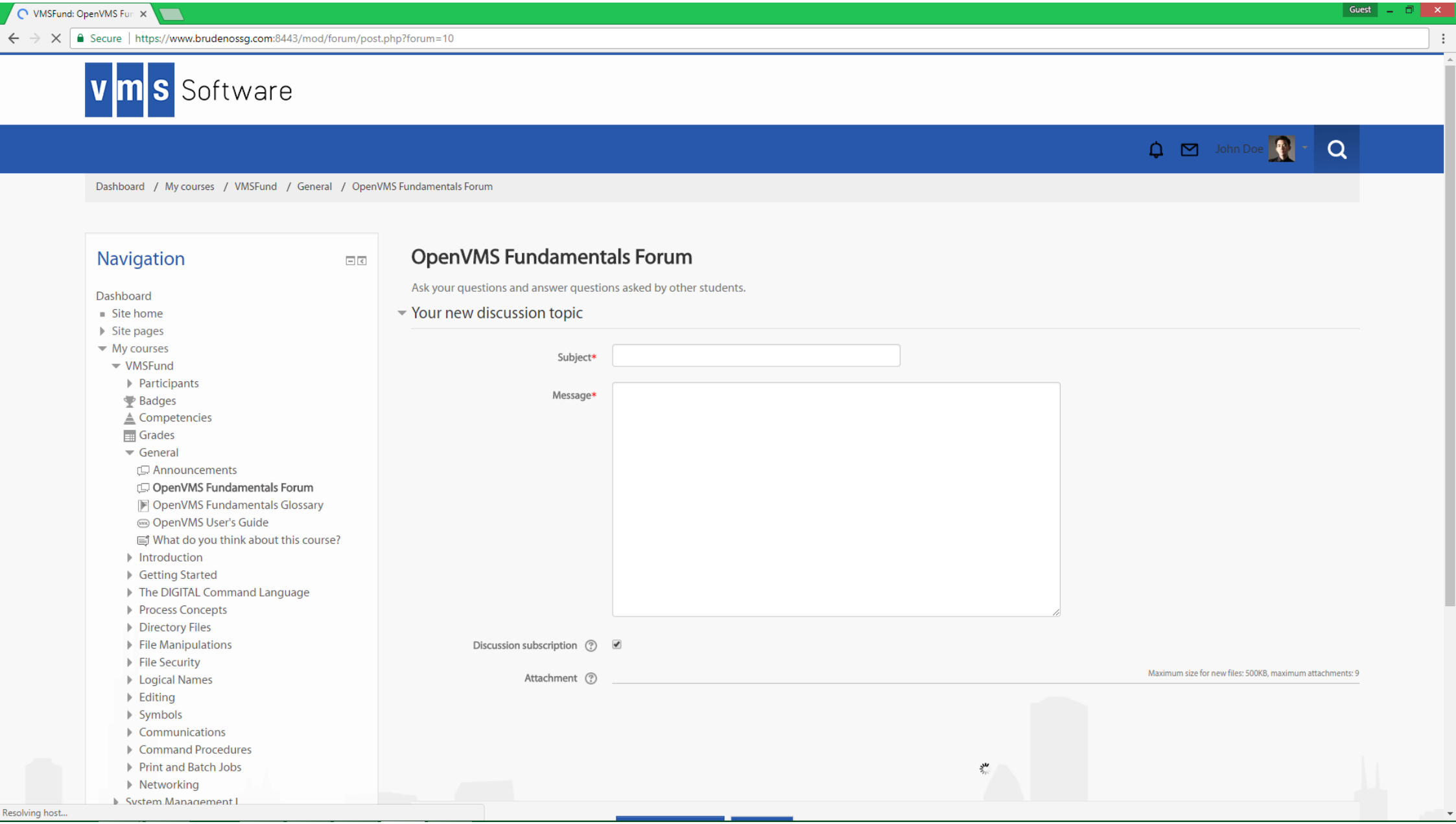
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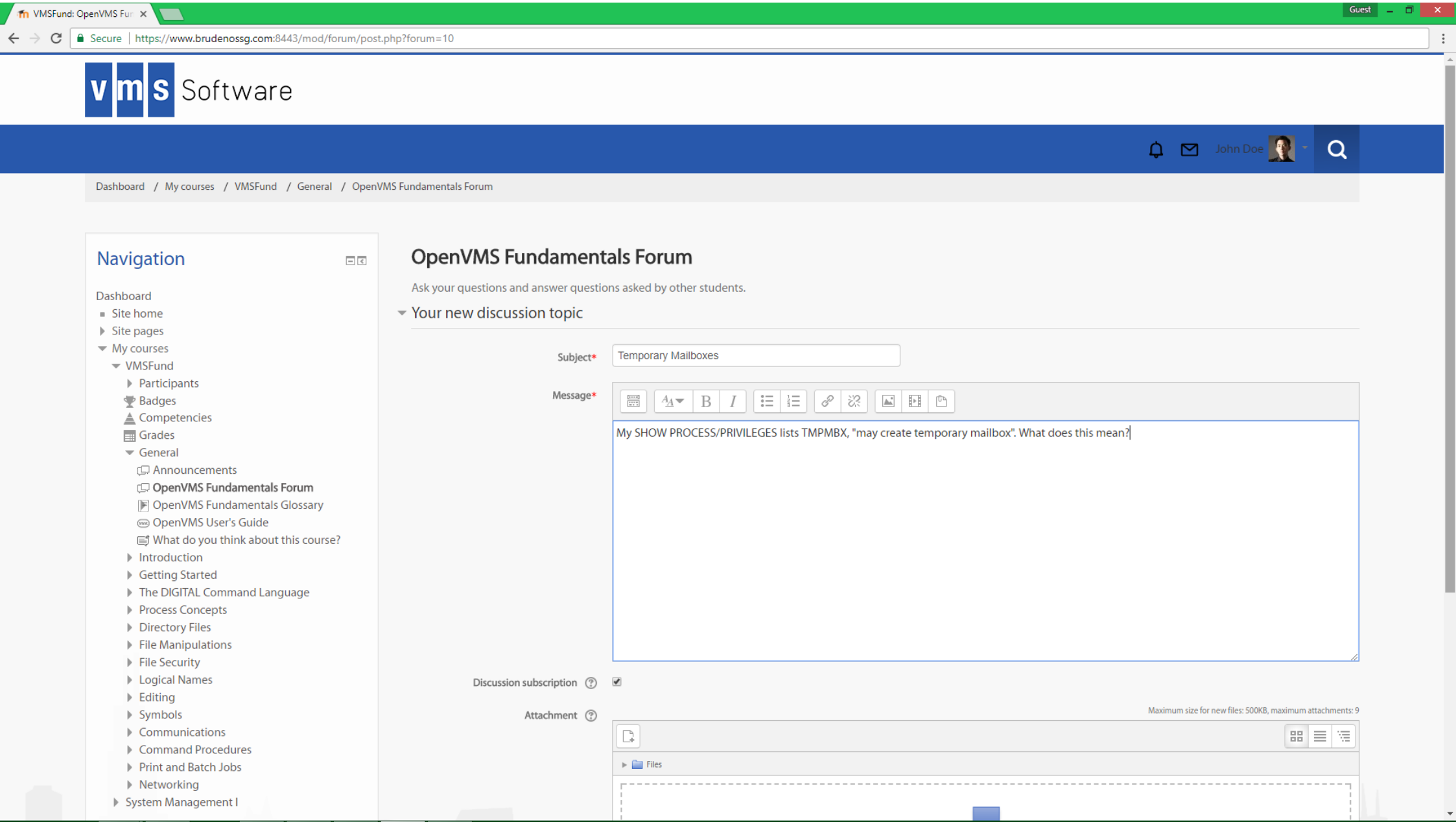
Ask your questions and answer questions asked by other students.
Your new discussion topic
Subject*
Message*
Discussion subscription
Attachment
Maximum size for new files: 500KB, maximum attachments: 9
Resolving host...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Your new discussion topic
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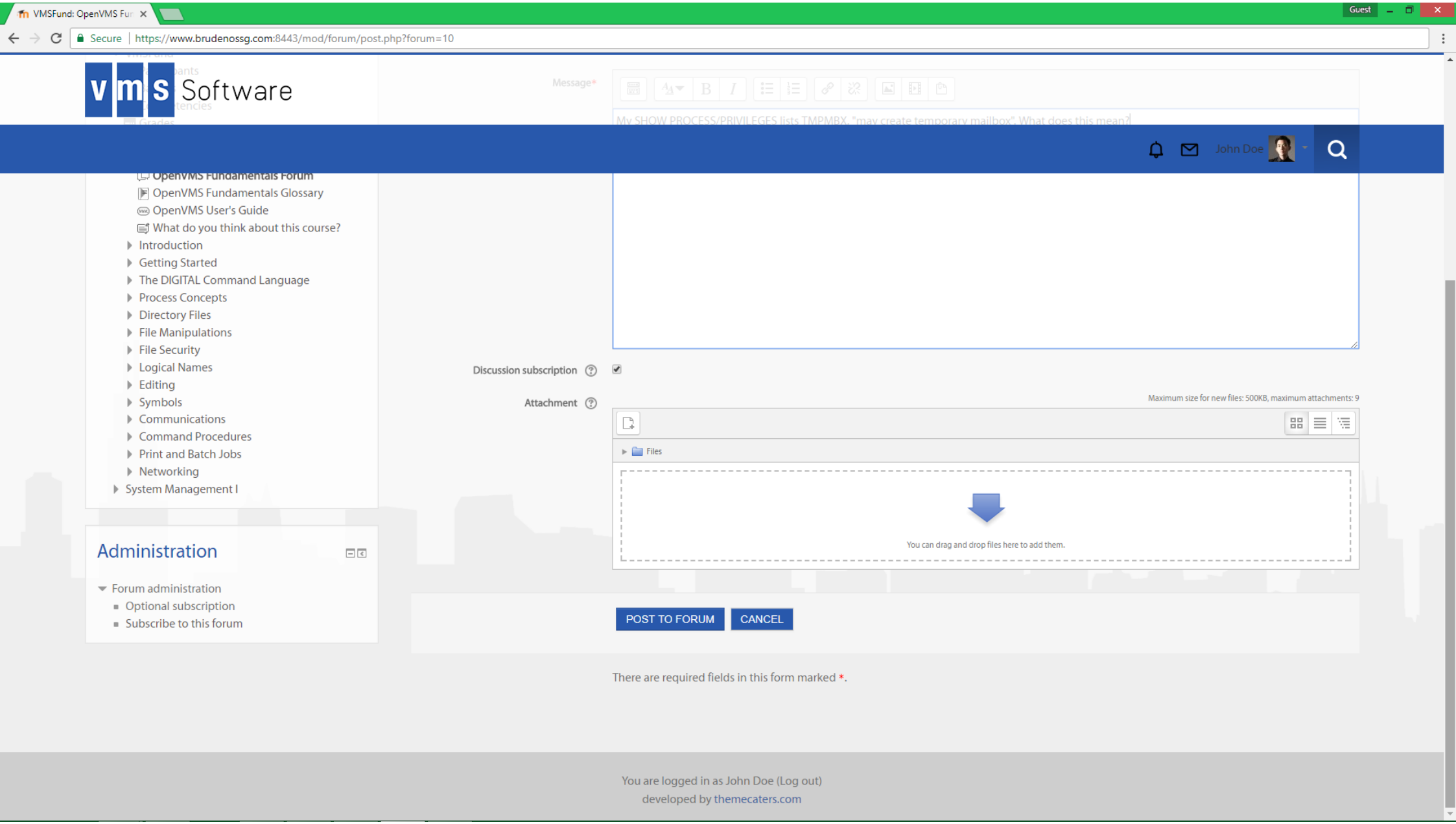
Temporary Mailboxes
Message*
My SHOW PROCESS/PRIVILEGES lists TMPMBX, "may create temporary mailbox". What does this mean?
Discussion subscription
Attachment
Maximum size for new files: 500KB, maximum attachments: 9
Files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Message*
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Forum administration
Optional subscription
Subscribe to this forum
Discussion subscription
Attachment
Maximum size for new files: 500KB, maximum attachments: 9
Files
You can drag and drop files here to add them.
POST TO FORUM
CANCEL
There are required fields in this form marked *.
You are logged in as John Doe (Log out)
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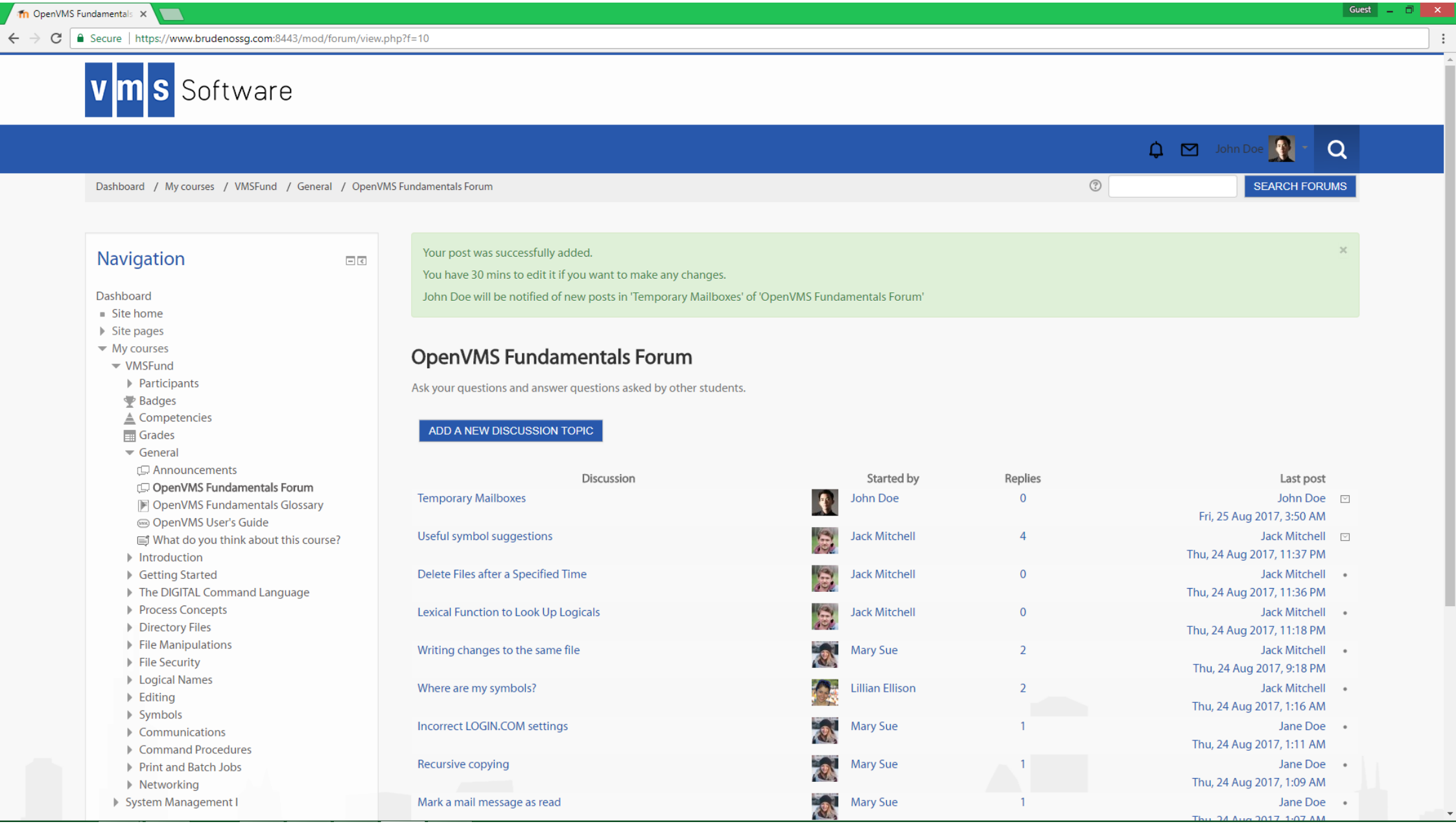
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Your post was successfully added.
You have 30 mins to edit it if you want to make any changes.
John Doe will be notified of new posts in 'Temporary Mailboxes' of 'OpenVMS Fundamentals Forum'
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Ask your questions and answer questions asked by other students.
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Started by
Replies
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Temporary Mailboxes
John Doe
0
John Doe
Fri, 25 Aug 2017, 3:50 AM
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Jack Mitchell
4
Jack Mitchell
Thu, 24 Aug 2017, 11:37 PM
Delete Files after a Specified Time
Jack Mitchell
0
Jack Mitchell
Thu, 24 Aug 2017, 11:36 PM
Lexical Function to Look Up Logicals
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```
$ show default
  USER$1:[FUND102]
$
```

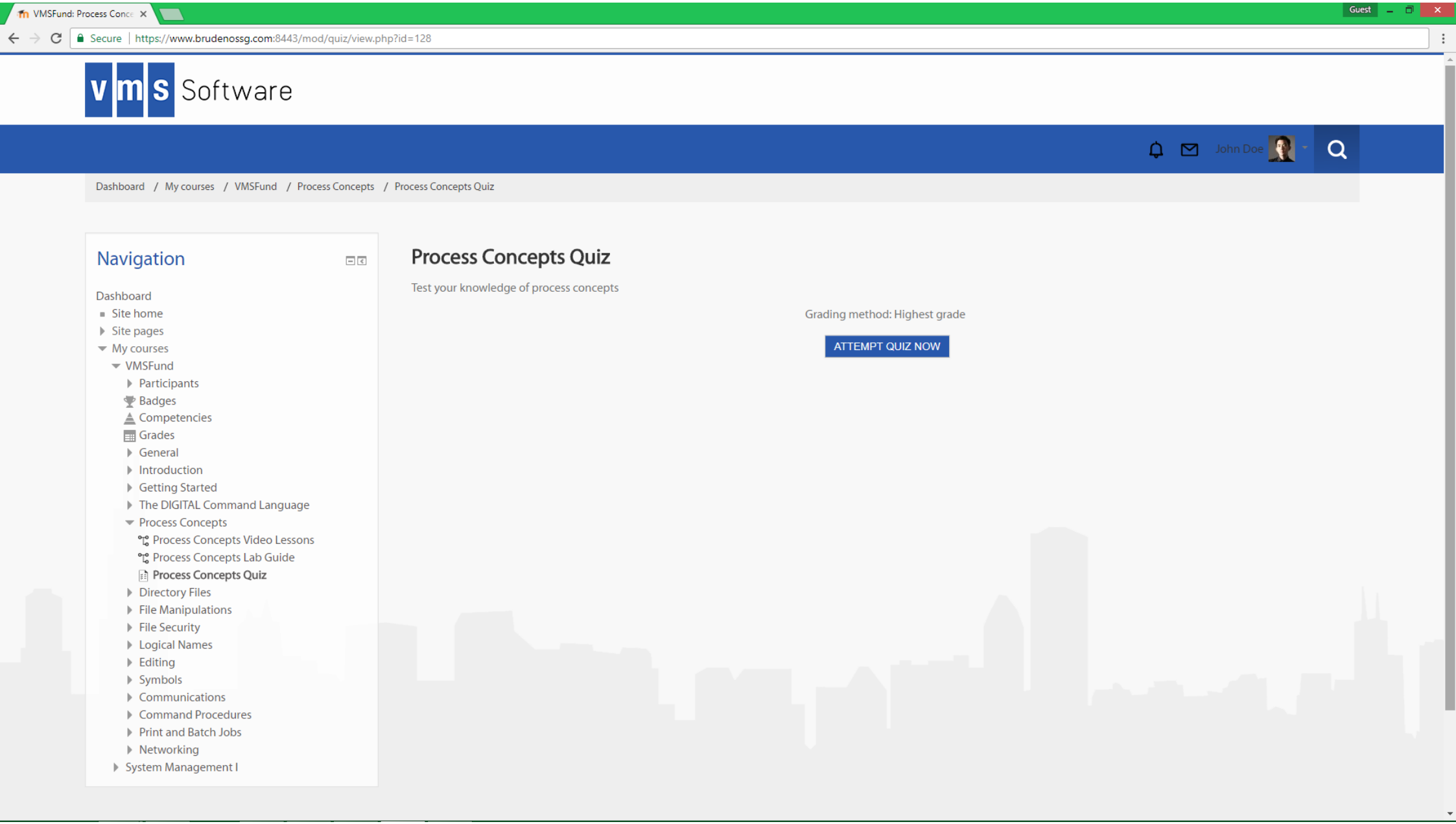
Images activated and connect time:

```
                          Node: SMAN42          Process name: "FUND102"

Accounting information:
 Buffered I/O count:        938  Peak working set size:       6560
 Direct I/O count:          109  Peak virtual size:         177856
 Page faults:              1843  Mounted volumes:                0
 Images activated:           24
 Elapsed CPU time:            0 00:00:00.12
 Connect time:                0 01:23:22.58
$
```

The authorized privileges:

```
$ show process/privileges

18-APR-2017 07:30:52.04   User: FUND102          Process ID:   204004CD
                          Node: SMAN42           Process name: "FUND102"

Authorized privileges:
 NETMBX       OPER         TMPMBX

Process privileges:
 NETMBX               may create network device
 TMPMBX               may create temporary mailbox

Process rights:
 FUND102                        resource
 INTERACTIVE
 REMOTE

System rights:
 SYS$NODE_SMAN42
$
```

NEXT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Grading method: Highest grade
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1 2 3 4 5 6

Finish attempt ...

Question 1

Not yet answered

Marked out of 1.00

Flag question

Fill in the gap:

The _____ contains information on the current user, user privileges (what the user is allowed to do) and quotas (how many system resources can be allocated to that user).

Question 2

Not yet answered

Marked out of 1.00

Flag question

Drag and drop the process types to complete the sentences:

A(n) _____ is a process created by another process (the parent process).

A(n) _____ does not accept commands from the user via the terminal, but runs commands sequentially from a file (a command procedure).

A(n) _____ is created when network access is requested, e.g. when the user runs a command to copy files from a remote computer. This kind of processes are terminated when the access is stopped and tracked in log files.

A(n) _____ is directly associated with the user. It is created when the user logs into the system, executes the commands the user enters in the terminal, and terminates as soon as the user logs out.

A(n) _____ is a non-interactive process that runs a single image. It is created by running an image and terminated when the image exits.

interactive process | batch process | network process | detached process | subprocess

Question 3

Not yet answered

Marked out of 1.00

Flag question

All changes made to your process using the $ SET PROCESS command are permanent.

Select one:

- True
- False

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Quiz Navigation

1 2 3 4 5 6

Finish review

Started on	Monday, 28 August 2017, 11:27 PM
State	Finished
Completed on	Monday, 28 August 2017, 11:35 PM
Time taken	8 mins 20 secs
Marks	1.50/6.00
Grade	**2.50** out of 10.00 (**25**%)

Question 1

Not answered

Marked out of 1.00

Flag question

Fill in the gap:

The [ ] ✗ contains information on the current user, user privileges (what the user is allowed to do) and quotas (how many system resources can be allocated to that user).

It is something all processes have.

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Drag and drop the process types to complete the sentences:

A(n) [subprocess] ✓ is a process created by another process (the parent process).

A(n) [batch process] ✓ does not accept commands from the user via the terminal, but runs commands sequentially from a file (a command procedure).

A(n) [network process] ✓ is created when network access is requested, e.g. when the user runs a command to copy files from a remote computer. This kind of processes are terminated when the access is stopped and tracked in log files.

A(n) [interactive process] ✓ is directly associated with the user. It is created when the user logs into the system, executes the commands the user enters in the terminal, and terminates as soon as the user logs out.

A(n) [detached process] ✓ is a non-interactive process that runs a single image. It is created by running an image and terminated when the image exits.

A(n) detached process ✓ is a non-interactive process that runs a single image. It is created by running an image and terminated when the image exits.

Question 3
Incorrect
Mark 0.00 out of 1.00
Flag question

All changes made to your process using the $ SET PROCESS command are permanent.

Select one:

- True ✗
- False

No, all changes are only valid until you log out.

Question 4
Incorrect
Mark 0.00 out of 1.00
Flag question

Which of the following is the command to display all the processes in the system?

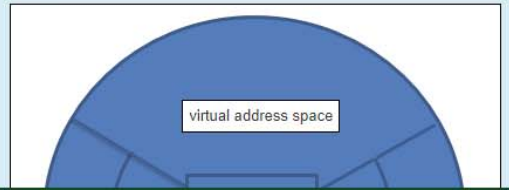
Select one:

- $ SHOW PROCESSES
- $ SHOW SYSTEM
- $ SHOW PROCESS/ALL ✗ This will show you all the information about your current process (but not a list of processes).
- $ SHOW SYSTEM/ALL

Your answer is incorrect.

Question 5
Partially correct
Mark 0.50 out of 1.00
Flag question

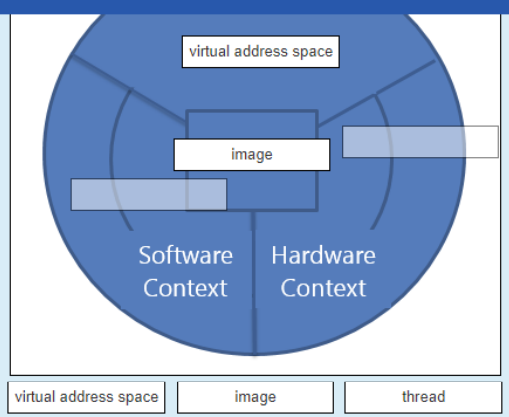
Drag and drop the elements of a process onto the image.



Question 5

Drag and drop the elements of a process onto the image.

Flag question



virtual address space | image | thread

This diagram represents a process with two threads that share hardware and software context.
Your answer is partially correct.

You have correctly selected 2.

Question 6

Incorrect

Mark 0.00 out of 1.00

Flag question

How do you exit a subprocess and reconnect to the original process?

Select one:

- $ LOGOUT
- $ SET PROCESS/NOSPAWN
- $ RETURN
- $ EXIT ✗

When you exit a process, you log out of it.

Process Concepts Quiz

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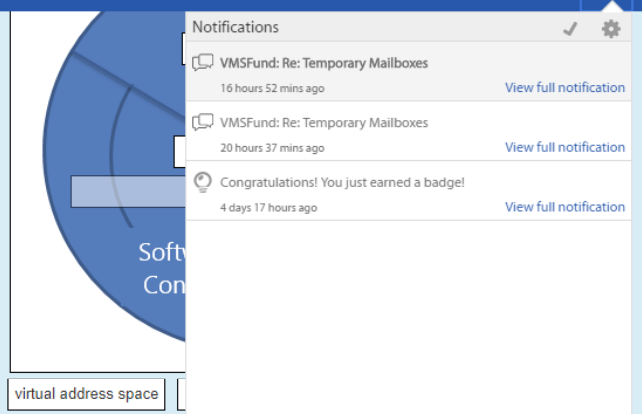
Question 5

Drag and drop the elements of a process onto the image.

John Doe

Flag question



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20 hours 37 mins ago View full notification

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4 days 17 hours ago View full notification

See all

This diagram represents a process with two threads that share hardwar
Your answer is partially correct.

You have correctly selected 2.

Question 6

Incorrect

Mark 0.00 out of 1.00

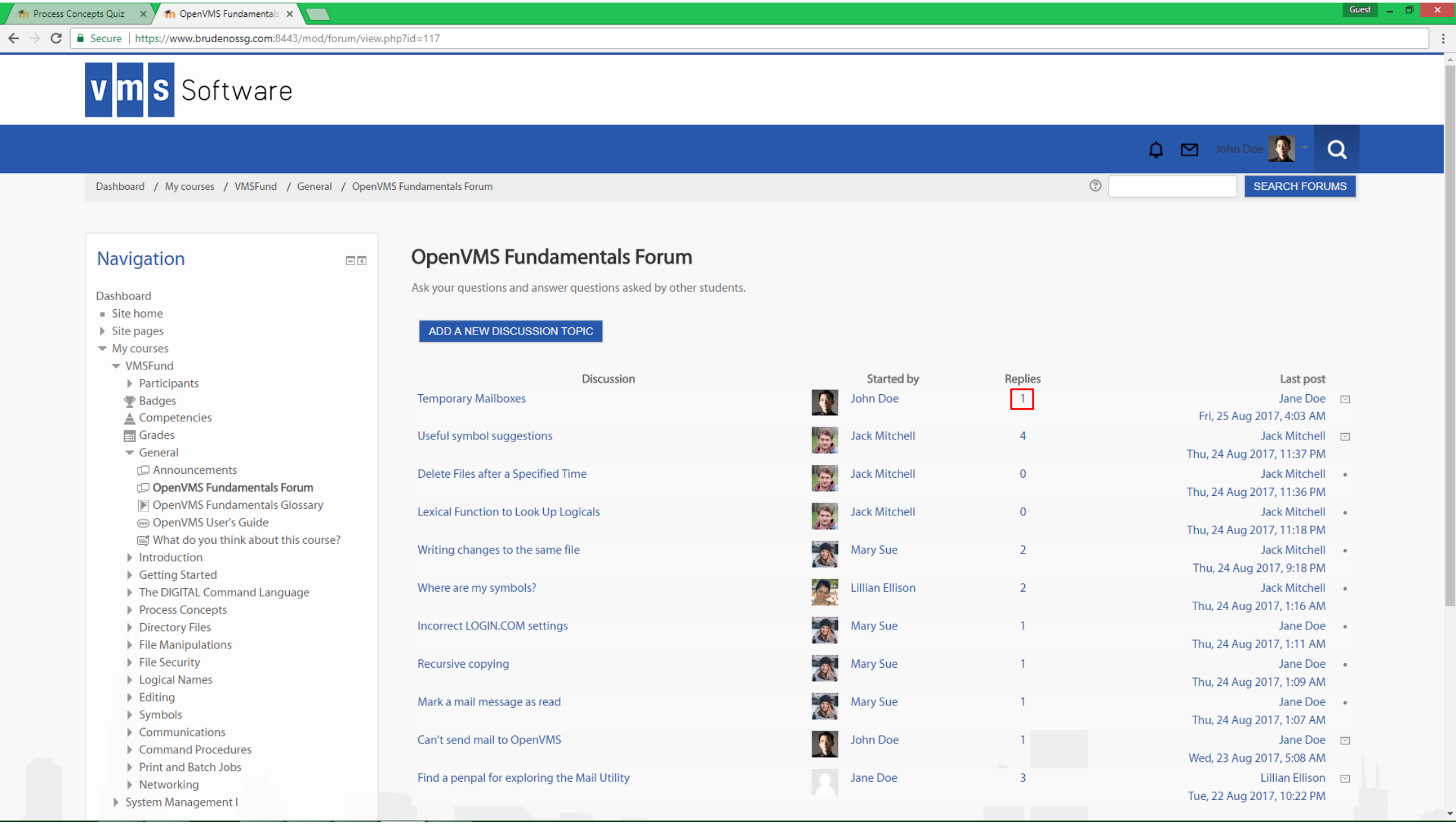
Flag question

How do you exit a subprocess and reconnect to the original process?

Select one:

- $ LOGOUT
- $ SET PROCESS/NOSPAWN
- $ RETURN
- $ EXIT ✗

When you exit a process, you log out of it.


Process Concepts Quiz
OpenVMS Fundamentals
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Ask your questions and answer questions asked by other students.
ADD A NEW DISCUSSION TOPIC
Discussion
Started by
Replies
Last post
Temporary Mailboxes
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Jane Doe
Fri, 25 Aug 2017, 4:03 AM
Useful symbol suggestions
Jack Mitchell
4
Jack Mitchell
Thu, 24 Aug 2017, 11:37 PM
Delete Files after a Specified Time
Jack Mitchell
0
Jack Mitchell
Thu, 24 Aug 2017, 11:36 PM
Lexical Function to Look Up Logicals
Jack Mitchell
0
Jack Mitchell
Thu, 24 Aug 2017, 11:18 PM
Writing changes to the same file
Mary Sue
2
Jack Mitchell
Thu, 24 Aug 2017, 9:18 PM
Where are my symbols?
Lillian Ellison
2
Jack Mitchell
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Incorrect LOGIN.COM settings
Mary Sue
1
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Thu, 24 Aug 2017, 1:11 AM
Recursive copying
Mary Sue
1
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Mark a mail message as read
Mary Sue
1
Jane Doe
Thu, 24 Aug 2017, 1:07 AM
Can't send mail to OpenVMS
John Doe
1
Jane Doe
Wed, 23 Aug 2017, 5:08 AM
Find a penpal for exploring the Mail Utility
Jane Doe
3
Lillian Ellison
Tue, 22 Aug 2017, 10:22 PM

VMSFund: Temporary M...

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John Doe

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OpenVMS Fundamentals Forum

Temporary Mailboxes

Subscribed

◀ Useful symbol suggestions

Display replies in nested form

Temporary Mailboxes

by John Doe - Friday, 25 August 2017, 3:50 AM

My SHOW PROCESS/PRIVILEGES lists TMPMBX, "may create temporary mailbox". What does this mean?

Permalink | Reply

Re: Temporary Mailboxes

by Jane Doe - Tuesday, 29 August 2017, 9:56 PM

I believe this can help: http://h41379.www4.hpe.com/openvms/journal/v9/mailboxes.pdf.

In short, temporary mailboxes are used for inter-process communication. The privilege that you have mentioned is usually granted to regular users, because it is hard to do anything it OpenVMS if you don't have this privilege.

Permalink | Show parent | Reply

◀ Useful symbol suggestions

Process Concepts Quiz | OpenVMS Fundamentals | Guest

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John Doe

Dashboard / My courses / VMSFund / Participants / Jack Mitchell

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Jack Mitchell

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Badges

Badges from VSI Training Center:

Process Beginner

Security Aware

Lord of the Files

DCL Guru

Course details

Course profiles

OpenVMS Fundamentals

System Management I - Essentials

Roles

Student

Miscellaneous

View all blog entries

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Forum discussions

Login activity

Last access to course

Friday, 25 August 2017, 3:03 AM (1 hour 5 mins)

Process Concepts Quiz | Issued badge informatio | Guest

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vms Software

John Doe

Dashboard / Process Beginner

Recipient details

Name	Jack Mitchell

Issuer details

Issuer name	VSI

Badge details

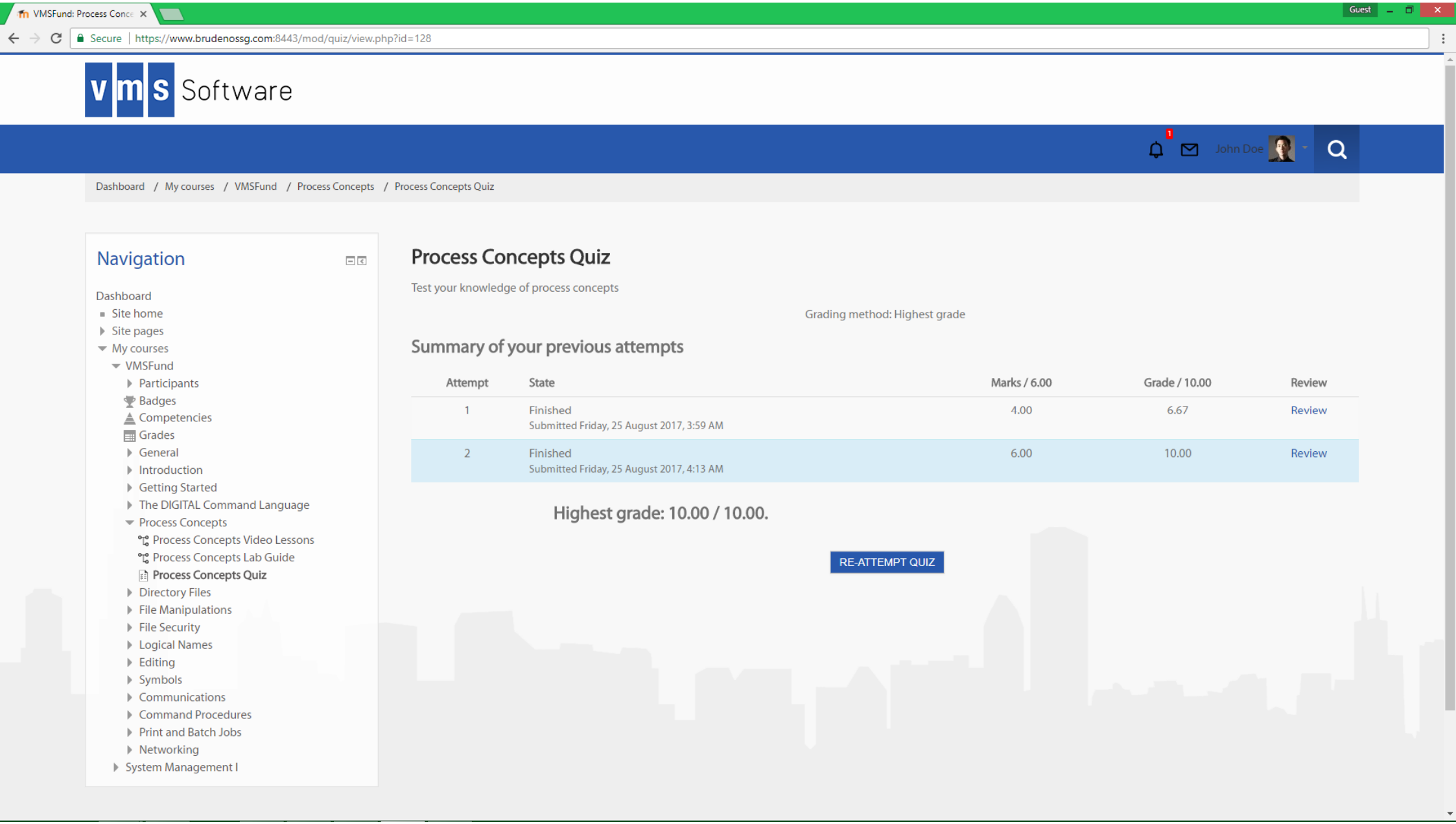
Name	Process Beginner
Description	This badges is awarded to students who have completed Funamentals level Process Concepts activities.
Course	OpenVMS Fundamentals
Criteria	Users are awarded this badge when they complete the following requirement:

- **ALL** of the following activities are completed:
  - **"Lesson - Process Concepts Video Lessons"**
  - **"Lesson - Process Concepts Lab Guide"**
  - **"Quiz - Process Concepts Quiz"**

Badge expiry

Date issued	Friday, 25 August 2017, 1:48 AM
Evidence	This badge was issued for completing:

- **ALL** of the following activities are completed:
  - **"Lesson - Process Concepts Video Lessons"**
  - **"Lesson - Process Concepts Lab Guide"**
  - **"Quiz - Process Concepts Quiz"**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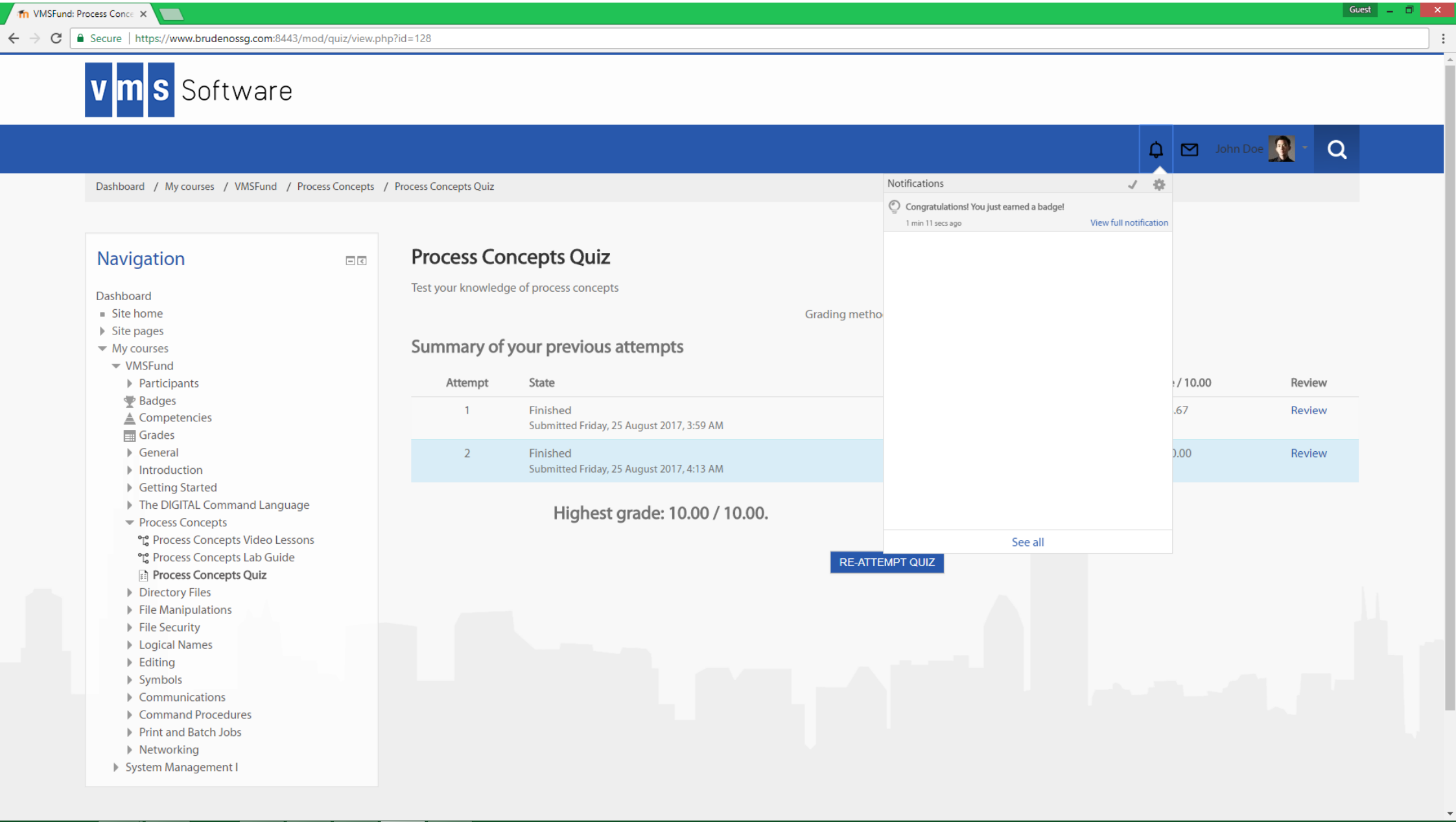
Test your knowledge of process concepts
Grading method: Highest grade
Summary of your previous attempts
Attempt
State
Marks / 6.00
Grade / 10.00
Review
1
Finished
Submitted Friday, 25 August 2017, 3:59 AM
4.00
6.67
Review
2
Finished
Submitted Friday, 25 August 2017, 4:13 AM
6.00
10.00
Review
Highest grade: 10.00 / 10.00.
RE-ATTEMPT QUIZ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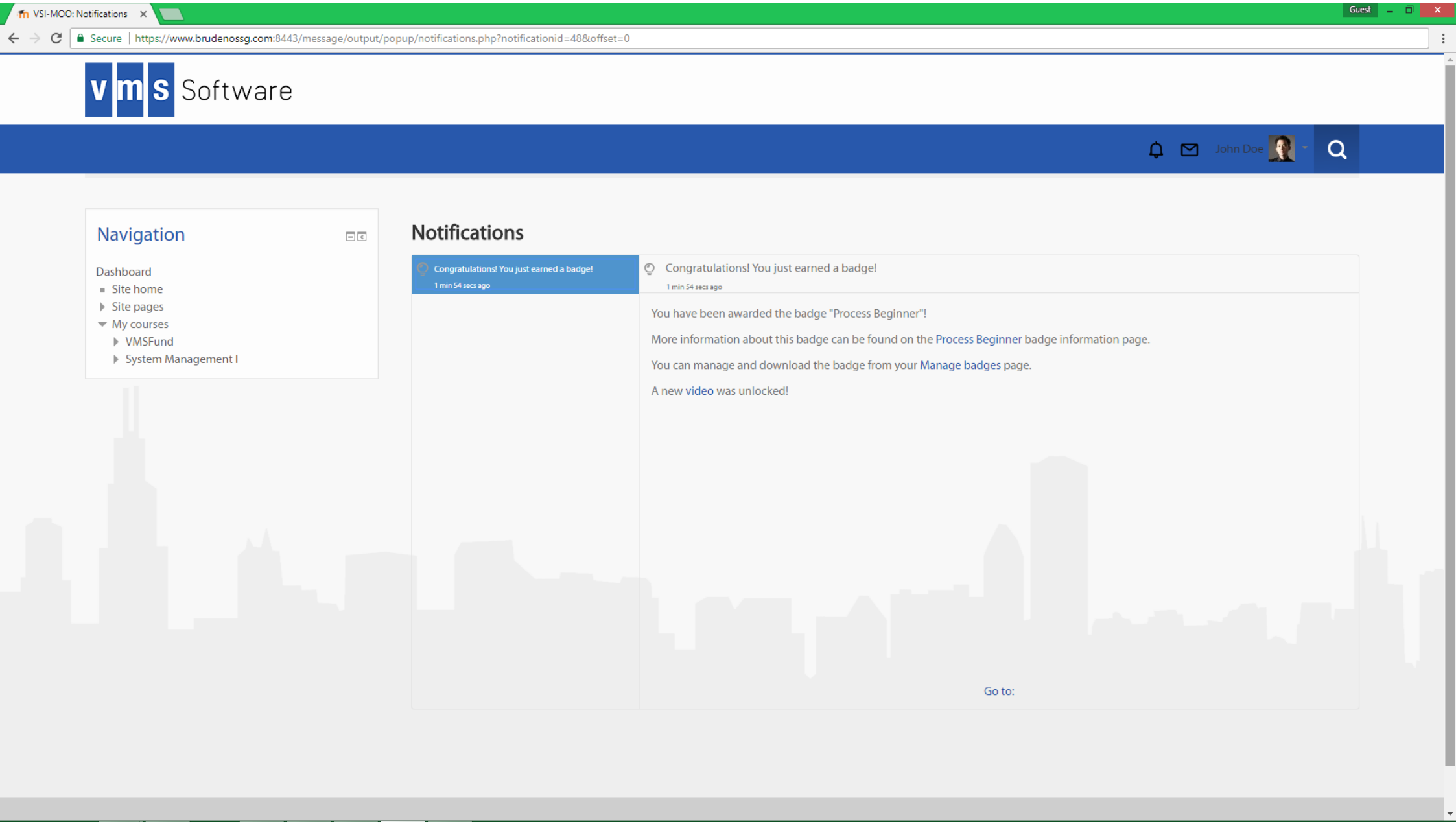
RE-ATTEMPT QUIZ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1 min 54 secs ago
Congratulations! You just earned a badge!
1 min 54 secs ago
You have been awarded the badge "Process Beginner"!
More information about this badge can be found on the Process Beginner badge information page.
You can manage and download the badge from your Manage badges page.
A new video was unlocked!
Go to:

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    - Directory Files

Process Concepts Video Lessons

EXTRA: Process State Details (4:41)

FINISH

Course completion

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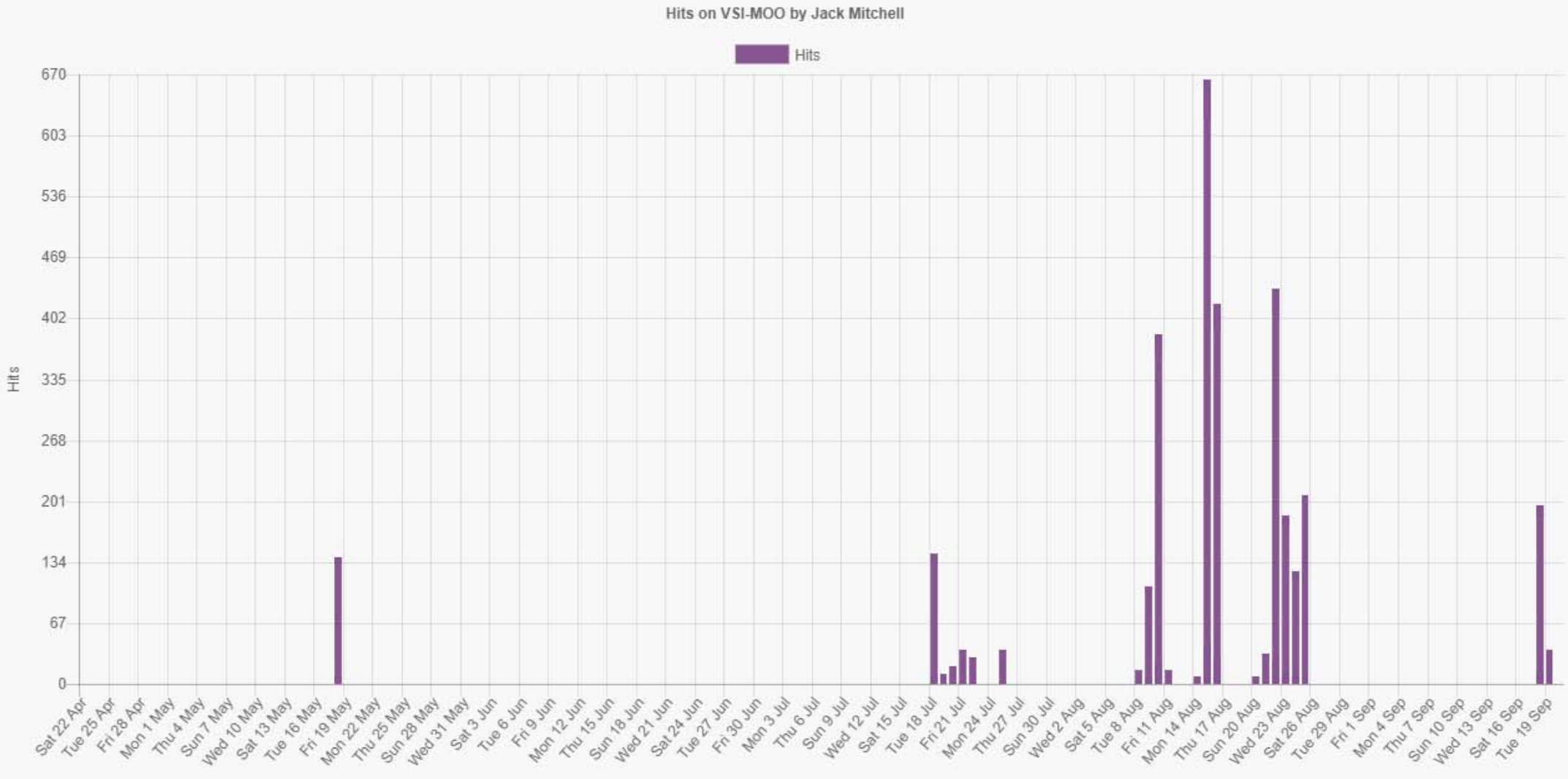
All participants: 6

Surname: All A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| Criteria group | | Activities | | |

Select log reader

Standard log



VMSFund: Activity report

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Grade item	Grade	Contribution to course total
OpenVMS Fundamentals		
Introduction Quiz	10.00	7.14 %
Getting Started Quiz	10.00	7.14 %
DCL Quiz	8.75	6.25 %
Process Concepts Quiz	10.00	7.14 %
Directory Files Quiz	10.00	7.14 %
File Manipulations Quiz	9.00	6.43 %
File Security Quiz	8.00	5.71 %
Logical Names Quiz	8.00	5.71 %
EVE Quiz	8.89	6.35 %
Symbols Quiz	10.00	7.14 %
Communications Quiz	8.57	6.12 %
Command Procedures Quiz	8.18	5.84 %
Print and Batch Jobs Quiz	8.57	6.12 %
Networking Quiz	10.00	7.14 %
Course total Weighted mean of grades.	91.40	-

Discussions started by Ja

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Jack Mitchell

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VMSFund -> OpenVMS Fundamentals Forum -> Delete Files After A Specified Time

by Jack Mitchell - Friday, 25 August 2017, 2:36 AM

I want to set up a command procedure that deletes files that have not been modified for more than a month. I can find these files with DIRECTORY /MODIFIED/SINCE, but how do I get the files and delete them?

Permalink | Edit | Delete
See this post in context

VMSFund -> OpenVMS Fundamentals Forum -> Lexical Function To Look Up Logicals

by Jack Mitchell - Friday, 25 August 2017, 2:18 AM

Is there a lexical function to translate a logical name into what it stands for?

Permalink | Edit | Delete
See this post in context

VMSFund -> OpenVMS Fundamentals Forum -> Useful Symbol Suggestions

by Jack Mitchell - Tuesday, 22 August 2017, 3:02 AM

What are some useful symbols you have defined in your LOGIN.COM? Mine are:

What's next?

- Completely automatic sign up
- More courses (System Management II, Programming Features, OpenVMS Internals, others)
- An informational course about OpenVMS and forum that anyone can access
- Certification

Outcomes

more students

better courses

community support

OpenVMS certification