Oracle & VMWare Desktop Datacenter

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IBM

The Task

I would like to check out the features of Oracle 10g, Oracle RAC, and Oracle ASM running on a Linux cluster.

The Problem

- I don't have a pile of hardware I can dedicate to this task.

- I don't have the in-house expertise to properly install and configure all of this hardware & software.

The Solution

Oracle has partnered with VMWare and Linux vendors RedHat and Novell to provide a pre-configured environment called:

What IS VMWare?

- VMWare is software that simulates one or more Virtual Machines on your Windows PC.

- These Virtual Machines are entire computers (including processor, memory, hard drive, display adapter, network adapter, etc.) simulated in software.

- Amongst other neat tricks, this allows you to run different operating systems within these Virtual Machines.

Desktop Datacenter

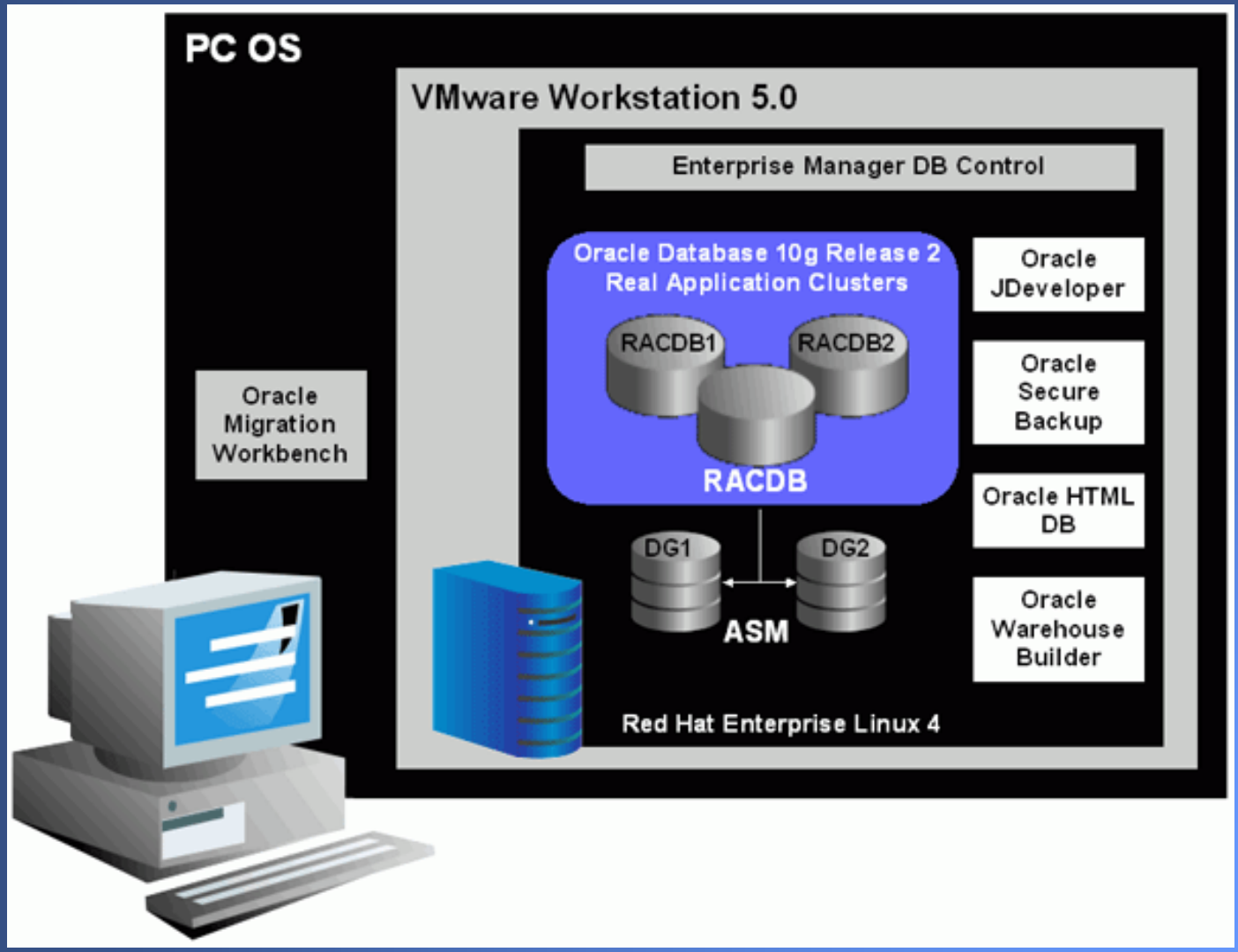
Windows XP Host O/S

VMWare Simulated Hardware

Linux Client O/S

Oracle Database 10g R2
Real Application Clusters
Automatic Storage Management
HTML DB
JDeveloper

Desktop Datacenter



Desktop Datacenter

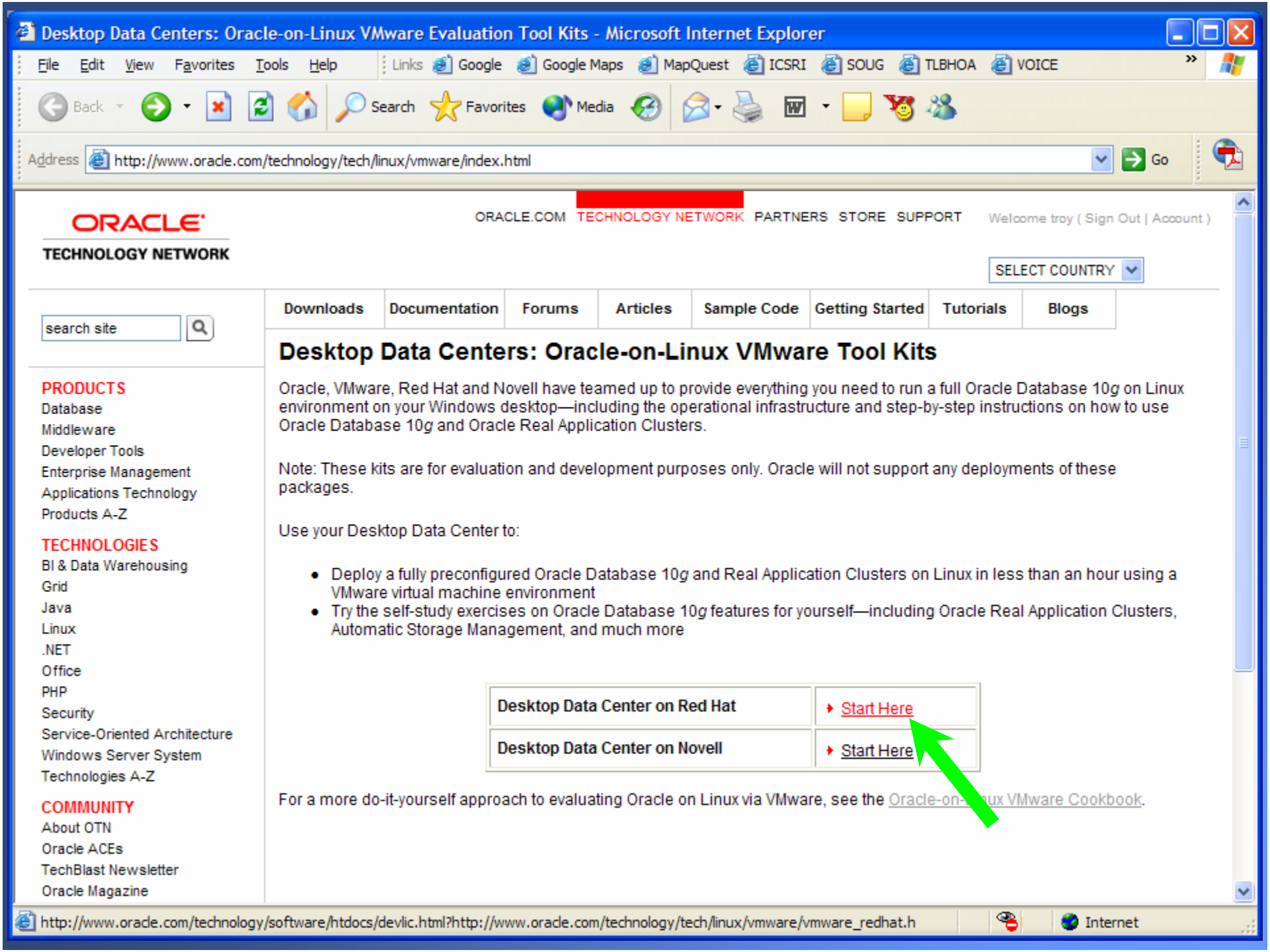
This sounds great!

What do I need to run it?

Windows PC with:
500Mhz CPU
1gig RAM
12gig Diskspace

So how do I get it?

www.oracle.com/technology/tech/linux/vmware/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Desktop Data Centers: Oracle-on-Linux VMware Tool Kits
Oracle, VMware, Red Hat and Novell have teamed up to provide everything you need to run a full Oracle Database 10g on Linux environment on your Windows desktop—including the operational infrastructure and step-by-step instructions on how to use Oracle Database 10g and Oracle Real Application Clusters.
Note: These kits are for evaluation and development purposes only. Oracle will not support any deployments of these packages.
Use your Desktop Data Center to:
Deploy a fully preconfigured Oracle Database 10g and Real Application Clusters on Linux in less than an hour using a VMware virtual machine environment
Try the self-study exercises on Oracle Database 10g features for yourself—including Oracle Real Application Clusters, Automatic Storage Management, and much more
Desktop Data Center on Red Hat
Start Here
Desktop Data Center on Novell
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For a more do-it-yourself approach to evaluating Oracle on Linux via VMware, see the Oracle-on-Linux VMware Cookbook.
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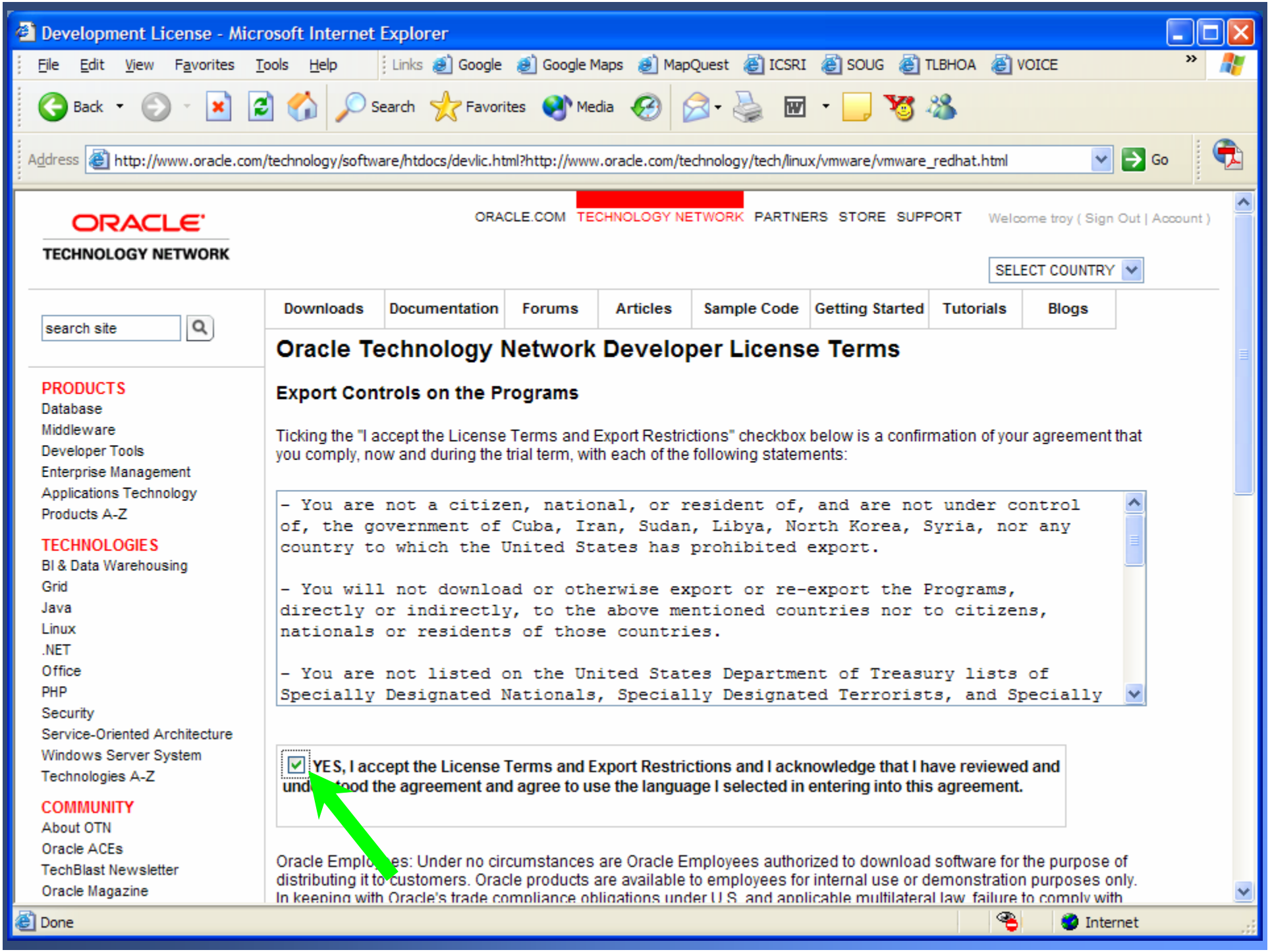
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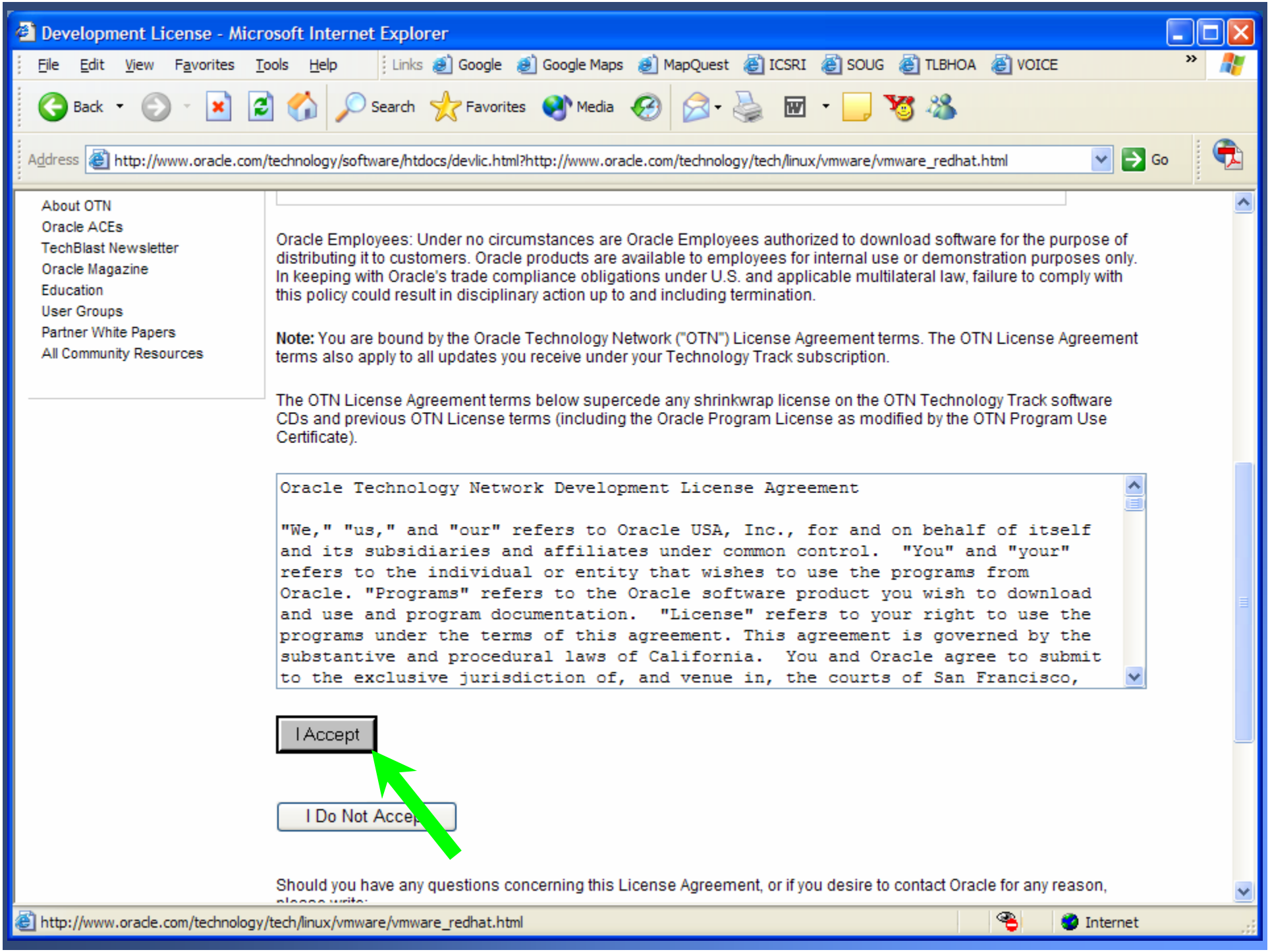
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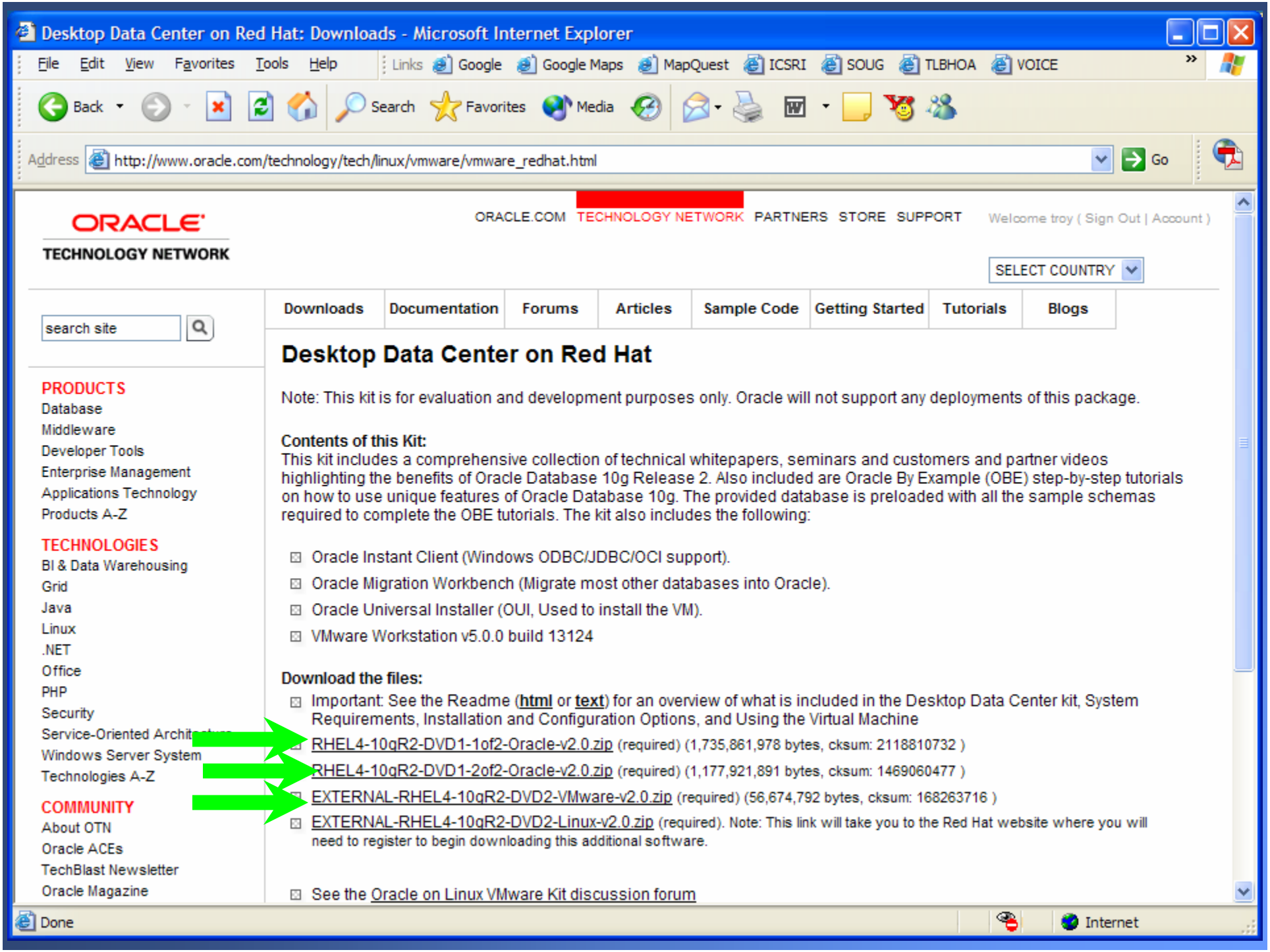
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Desktop Data Center on Red Hat
Note: This kit is for evaluation and development purposes only. Oracle will not support any deployments of this package.
Contents of this Kit:
This kit includes a comprehensive collection of technical whitepapers, seminars and customers and partner videos highlighting the benefits of Oracle Database 10g Release 2. Also included are Oracle By Example (OBE) step-by-step tutorials on how to use unique features of Oracle Database 10g. The provided database is preloaded with all the sample schemas required to complete the OBE tutorials. The kit also includes the following:
Oracle Instant Client (Windows ODBC/JDBC/OCI support).
Oracle Migration Workbench (Migrate most other databases into Oracle).
Oracle Universal Installer (OUI, Used to install the VM).
VMware Workstation v5.0.0 build 13124
Download the files:
Important: See the Readme (html or text) for an overview of what is included in the Desktop Data Center kit, System Requirements, Installation and Configuration Options, and Using the Virtual Machine
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See the Oracle on Linux VMware Kit discussion forum
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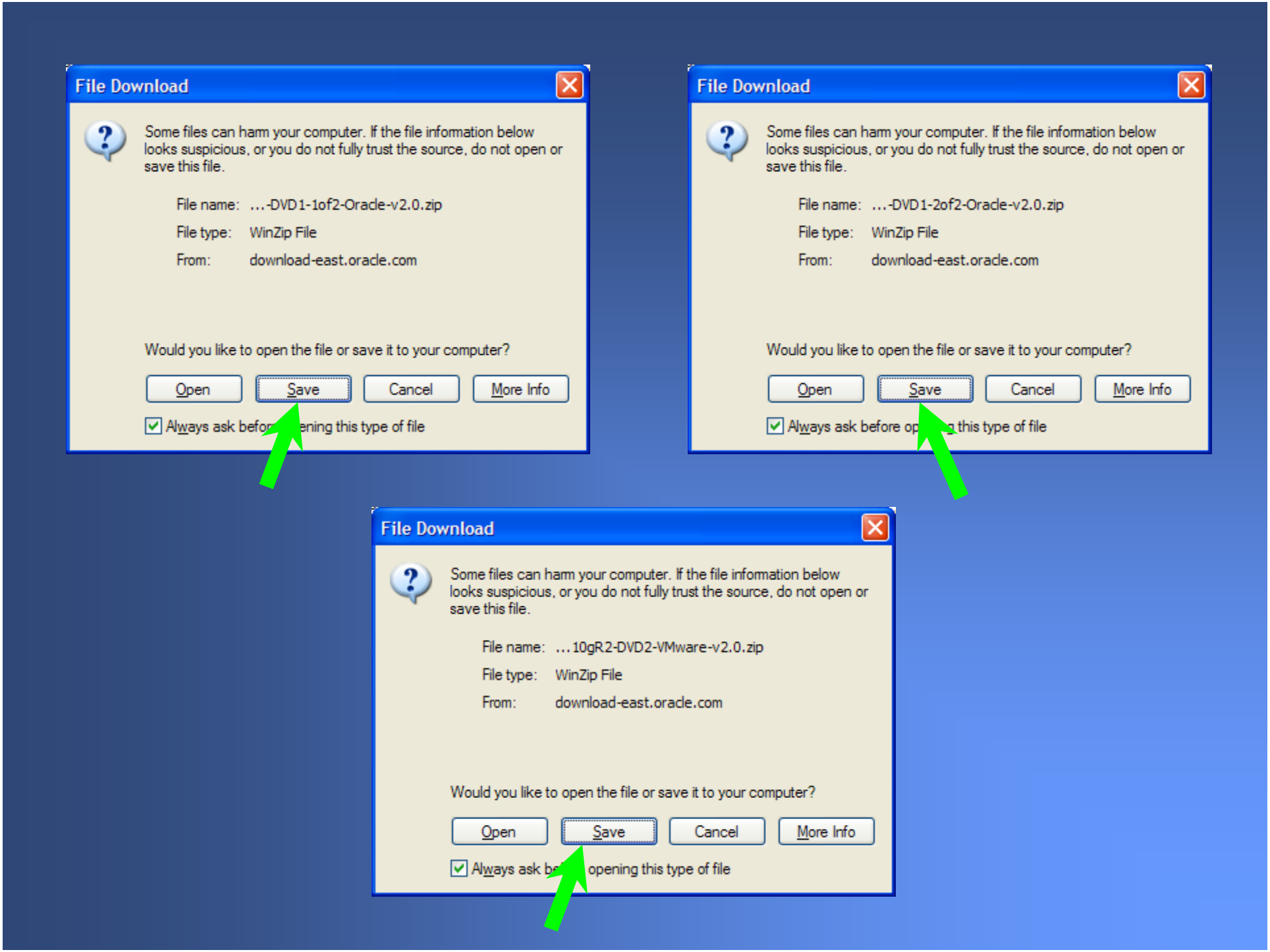
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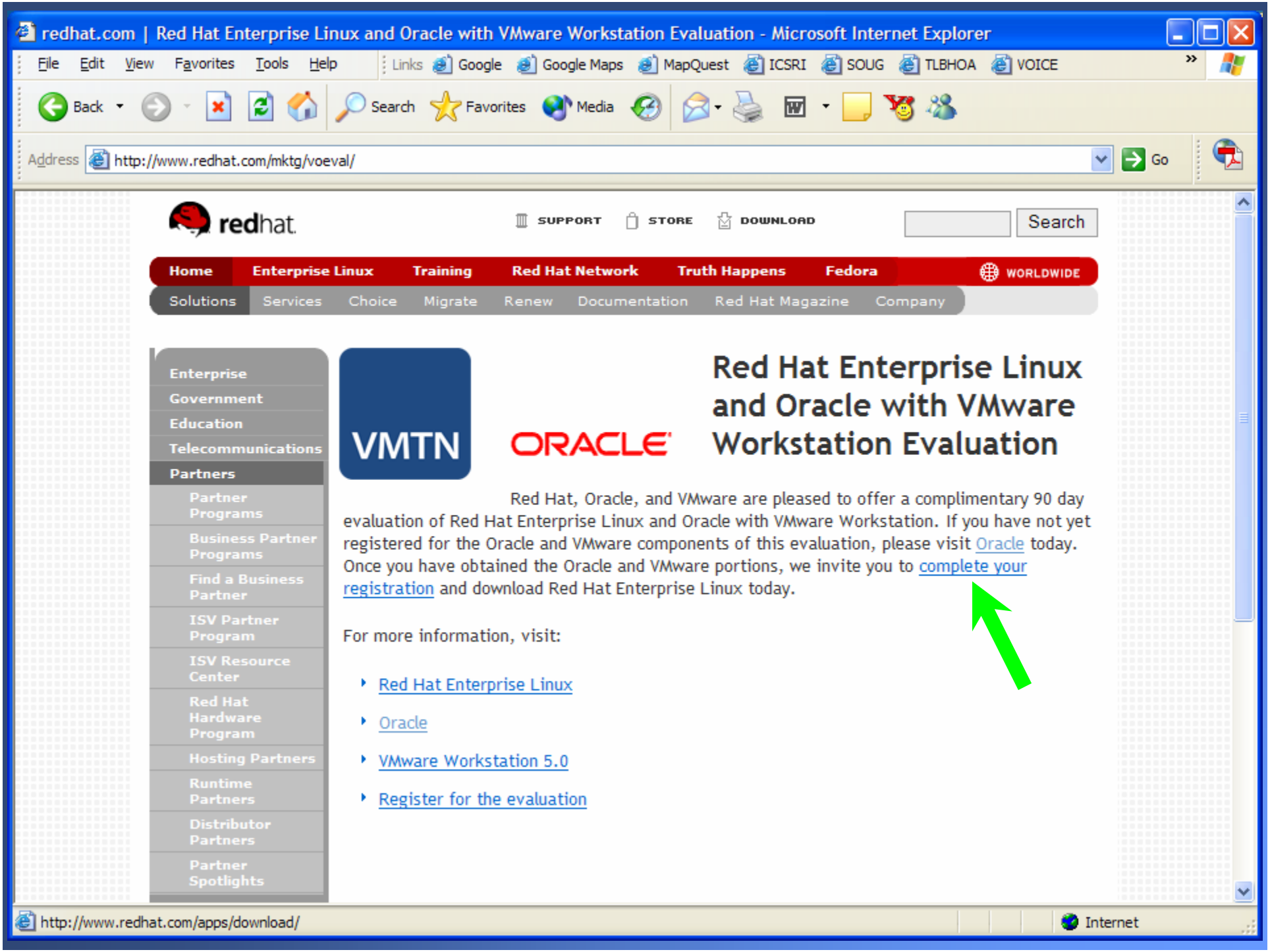
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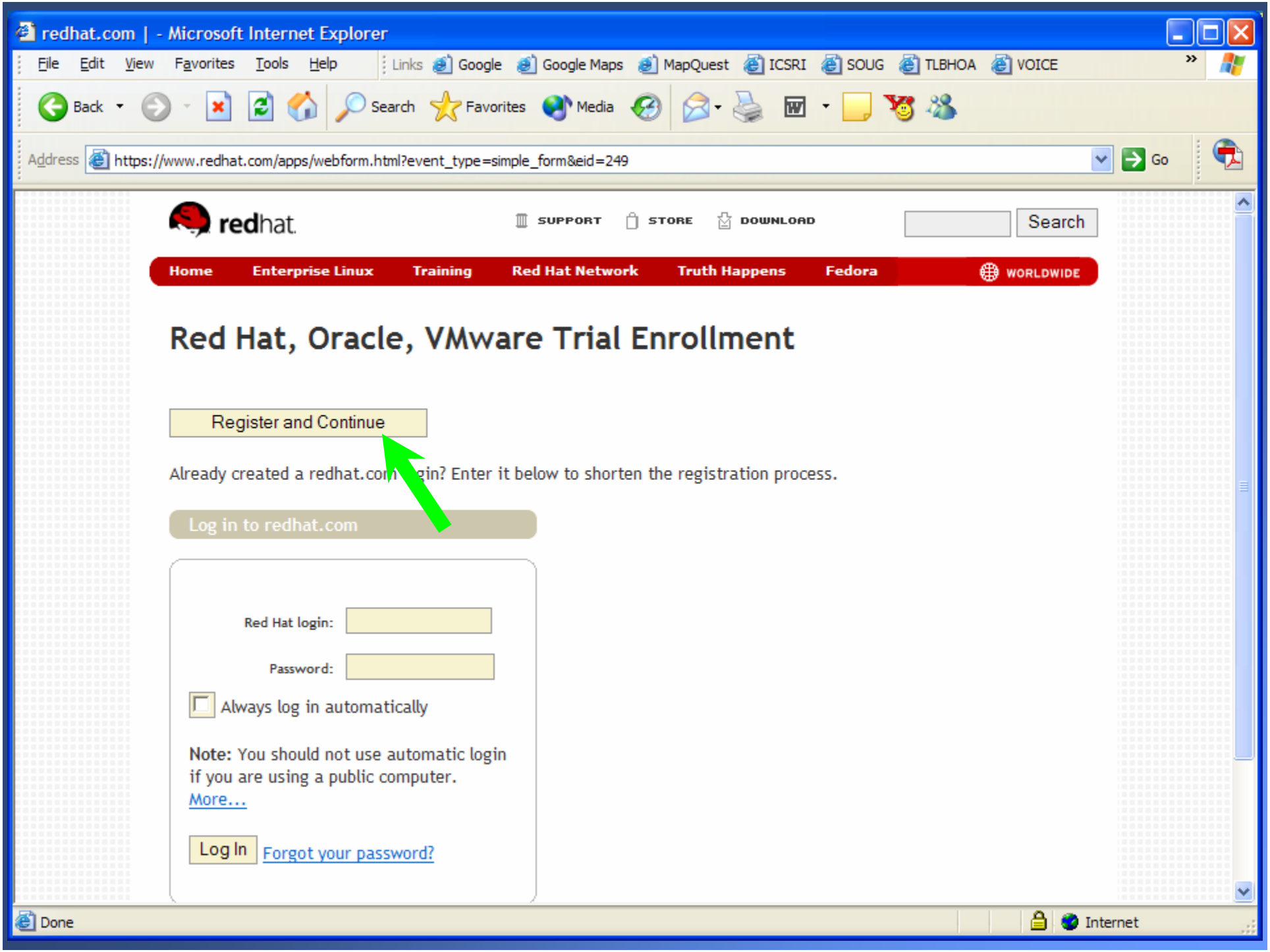
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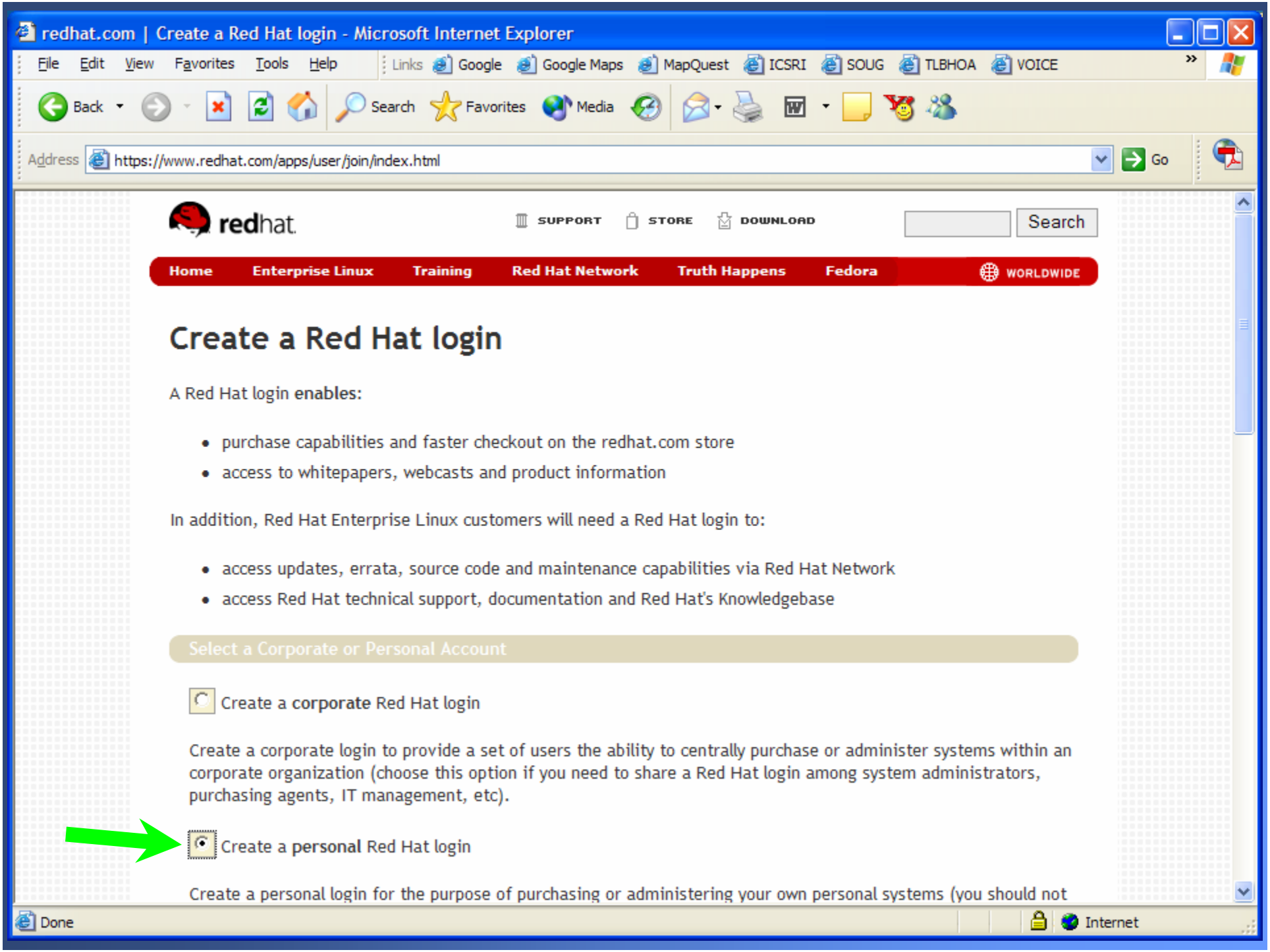
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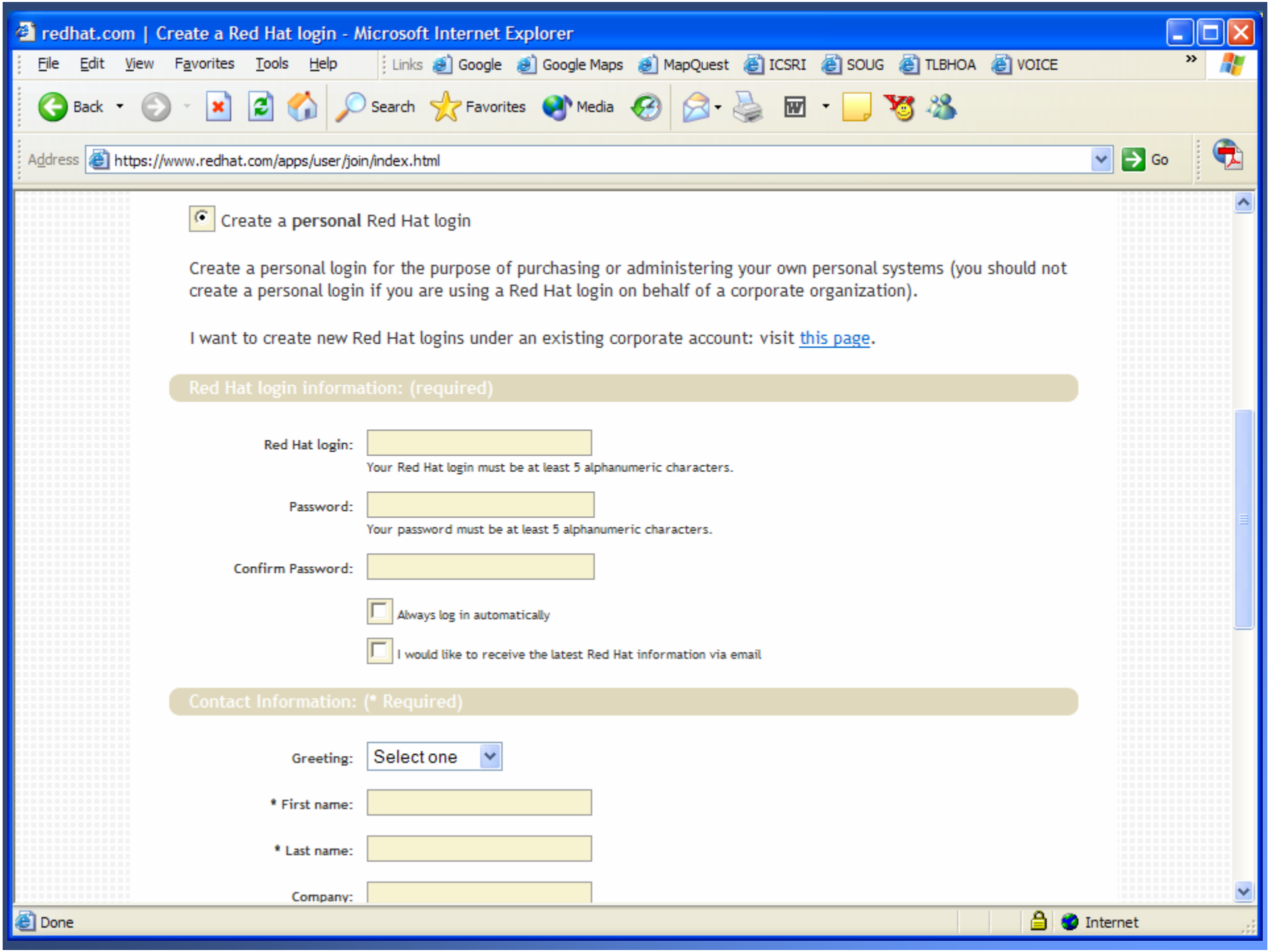
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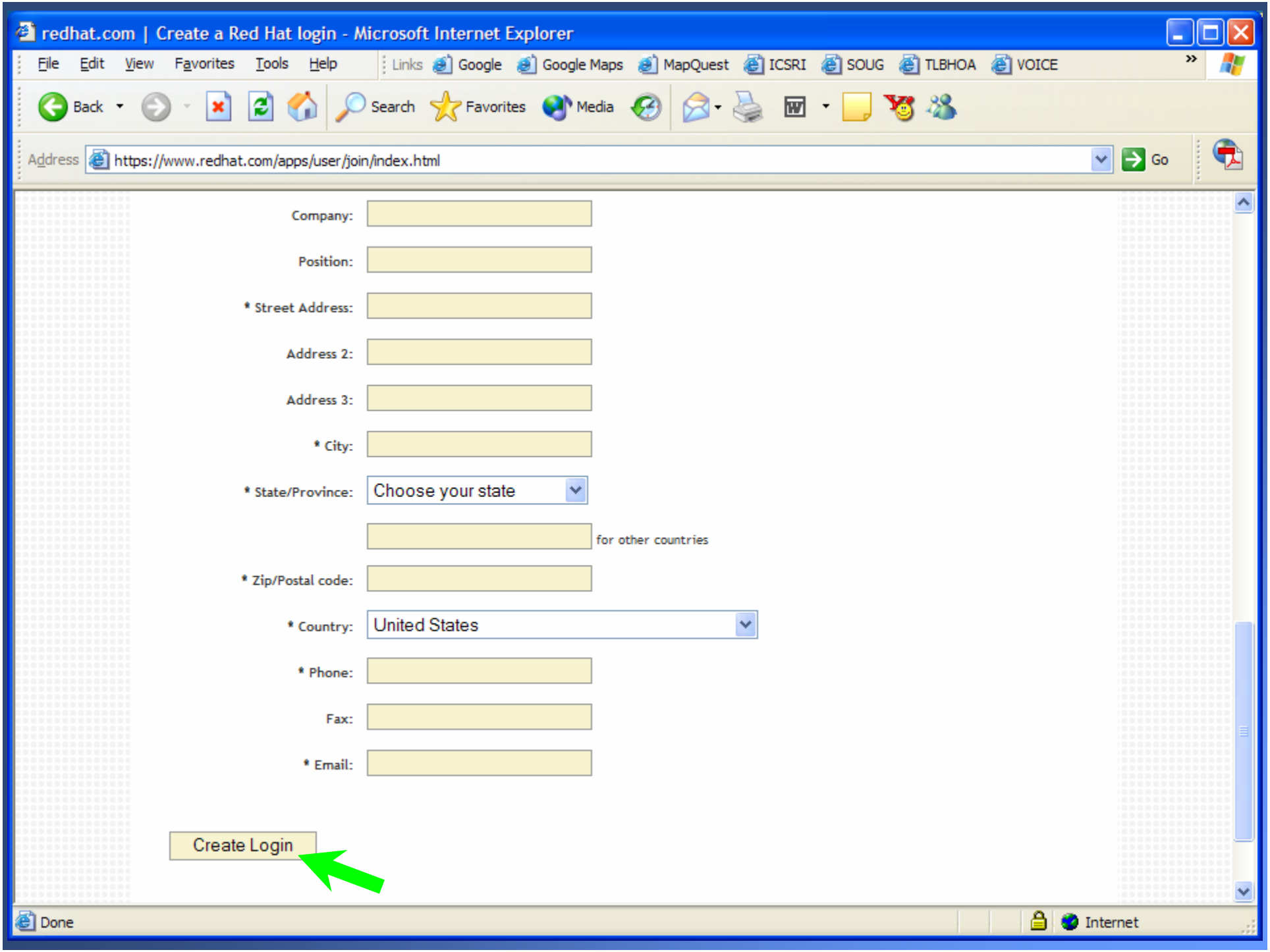
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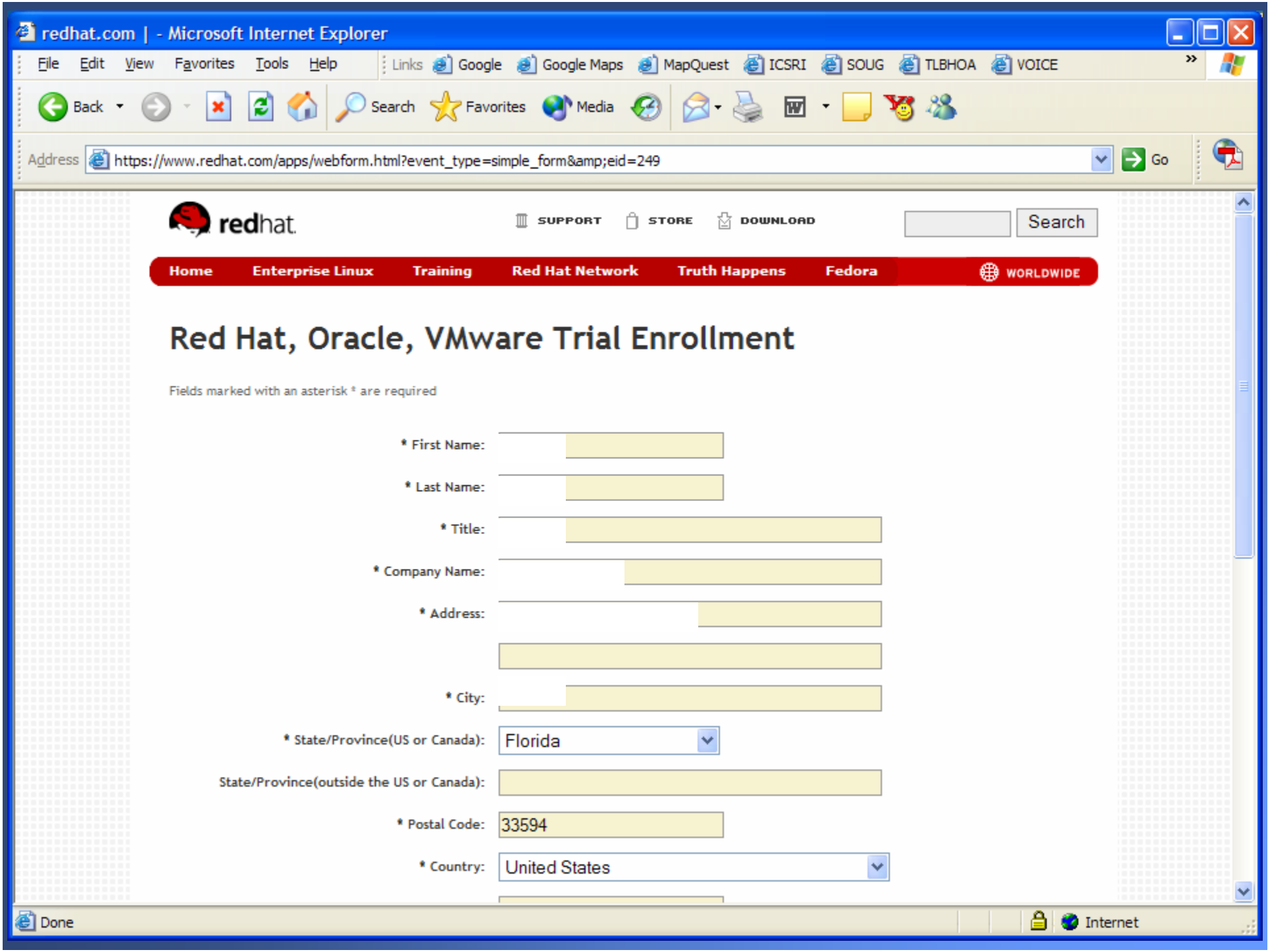
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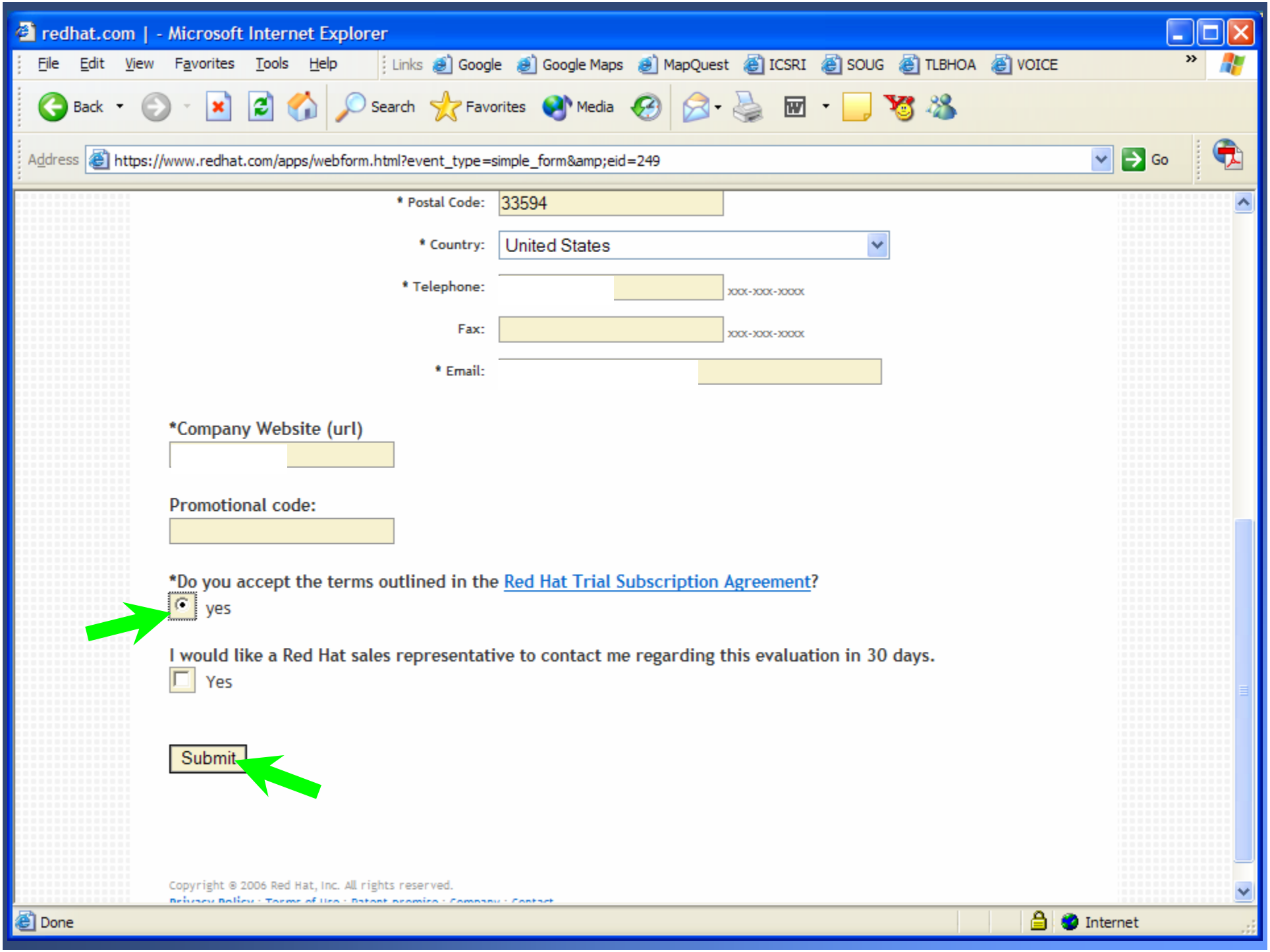
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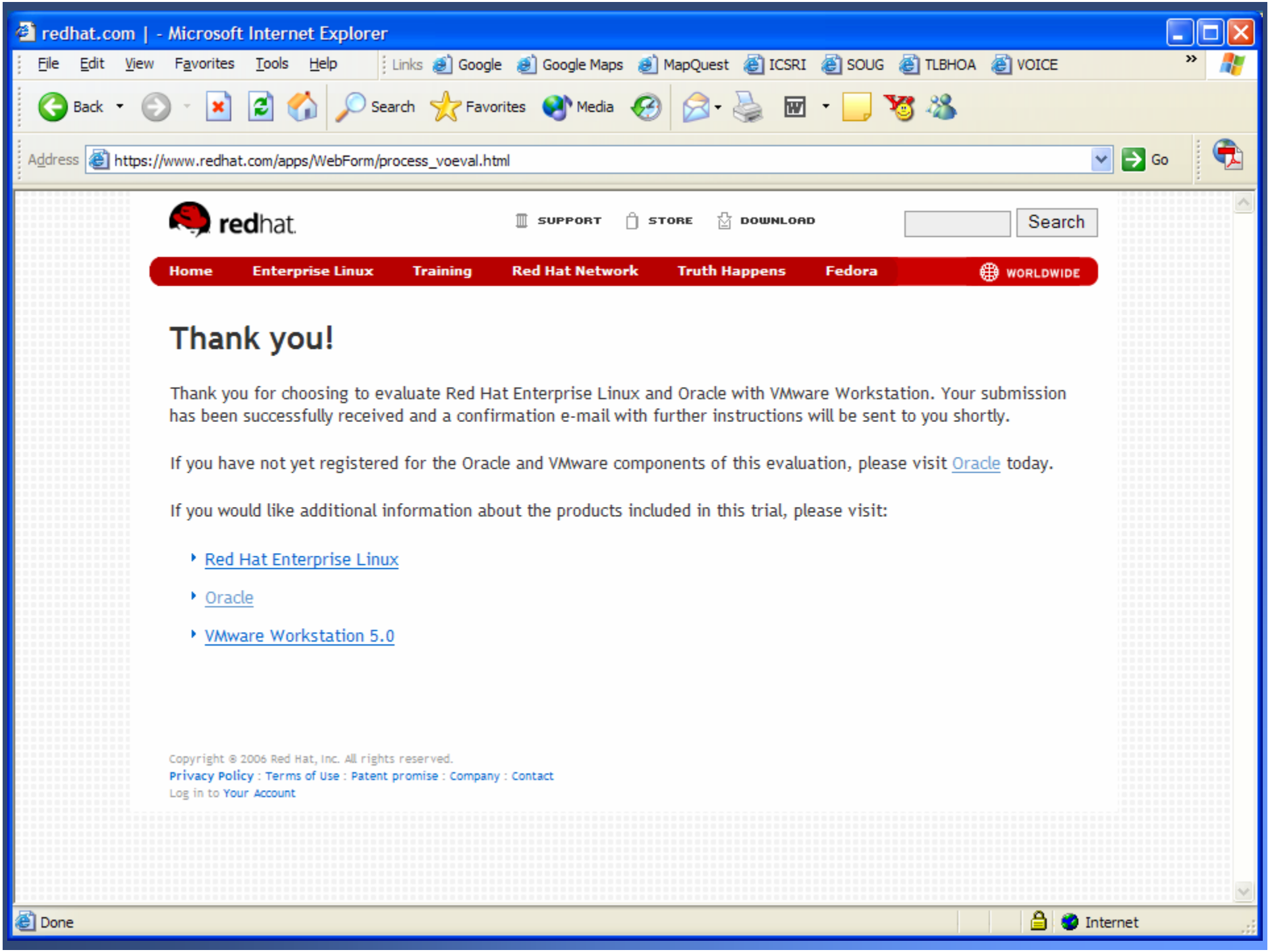
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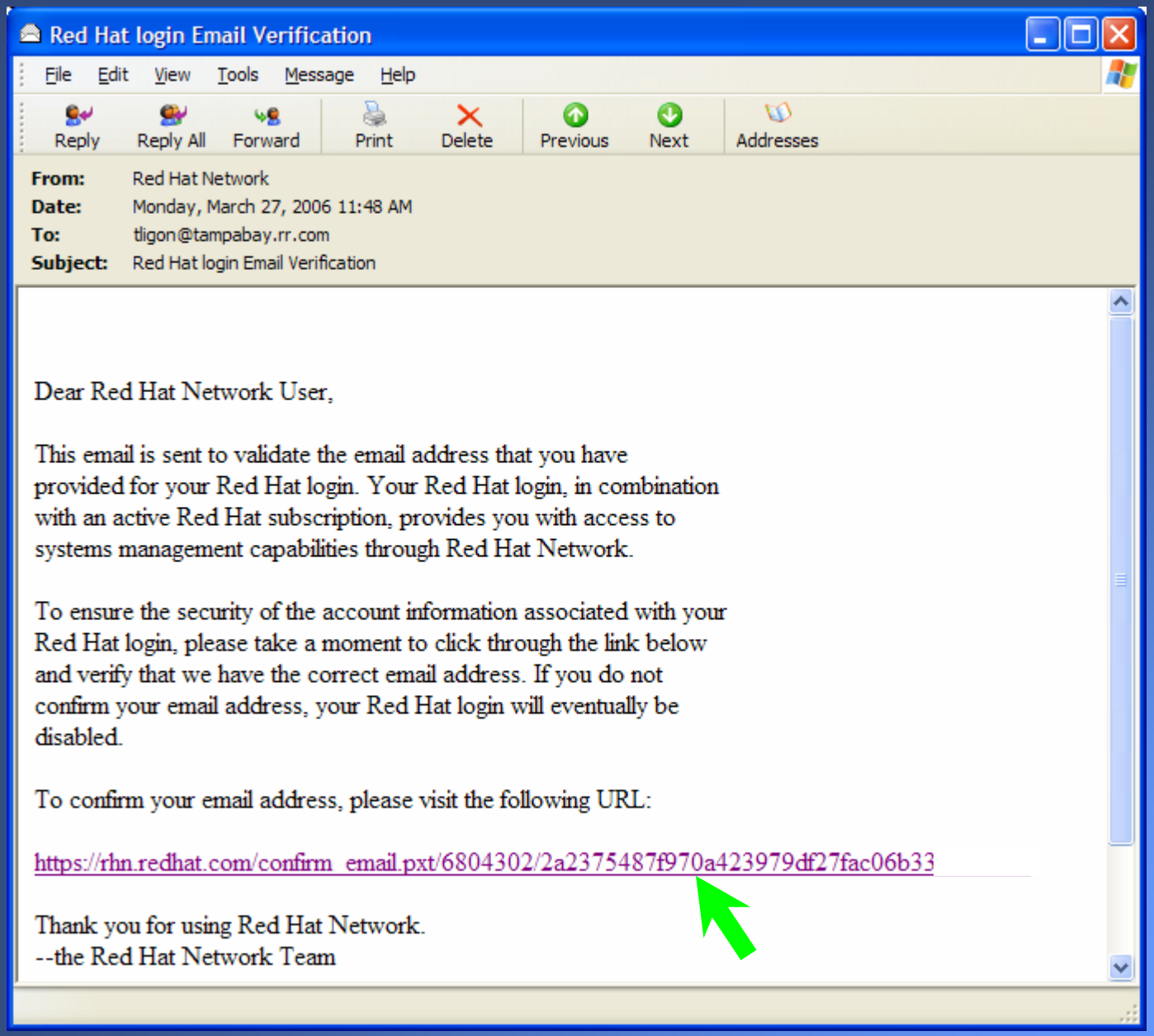
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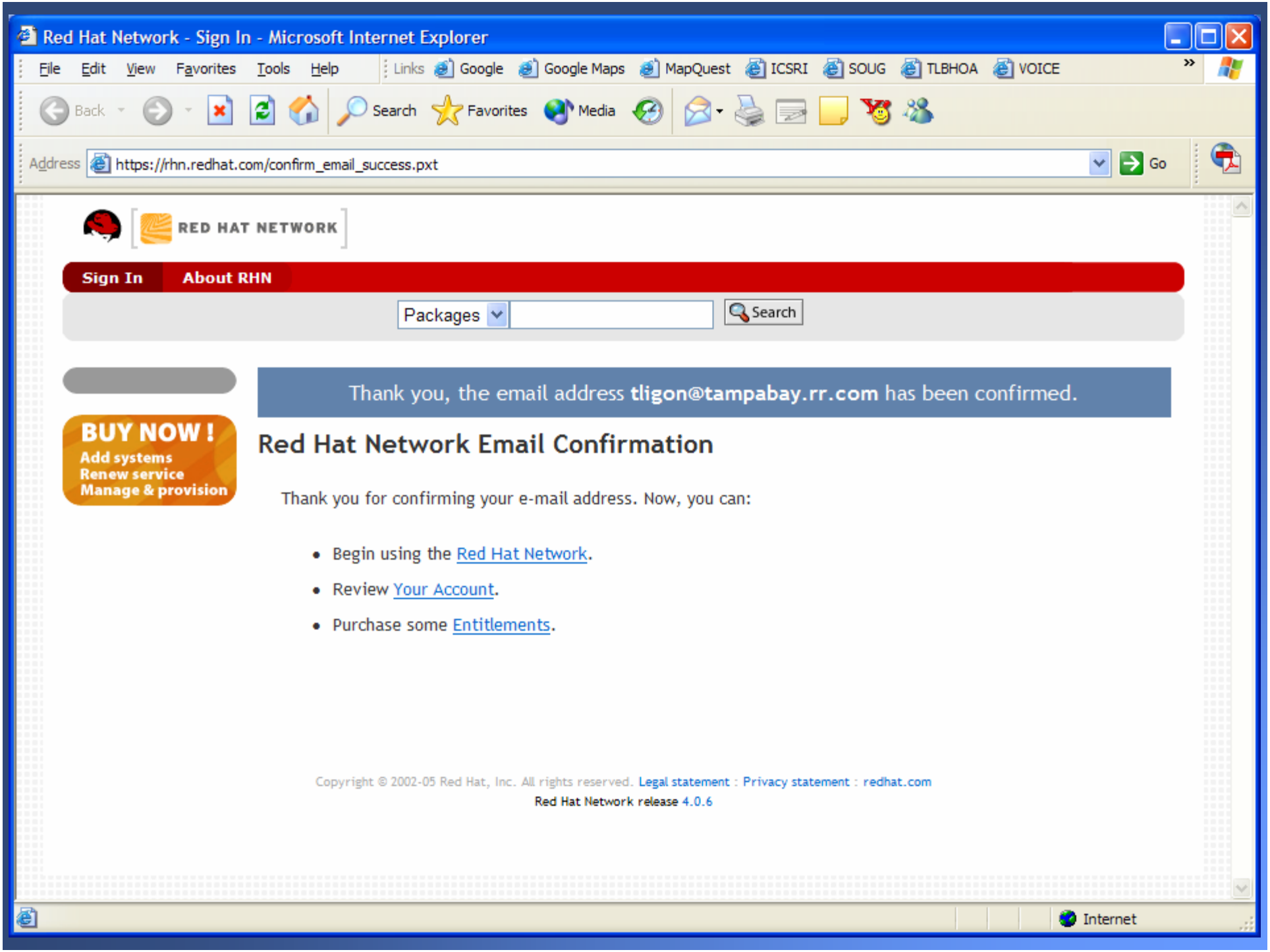
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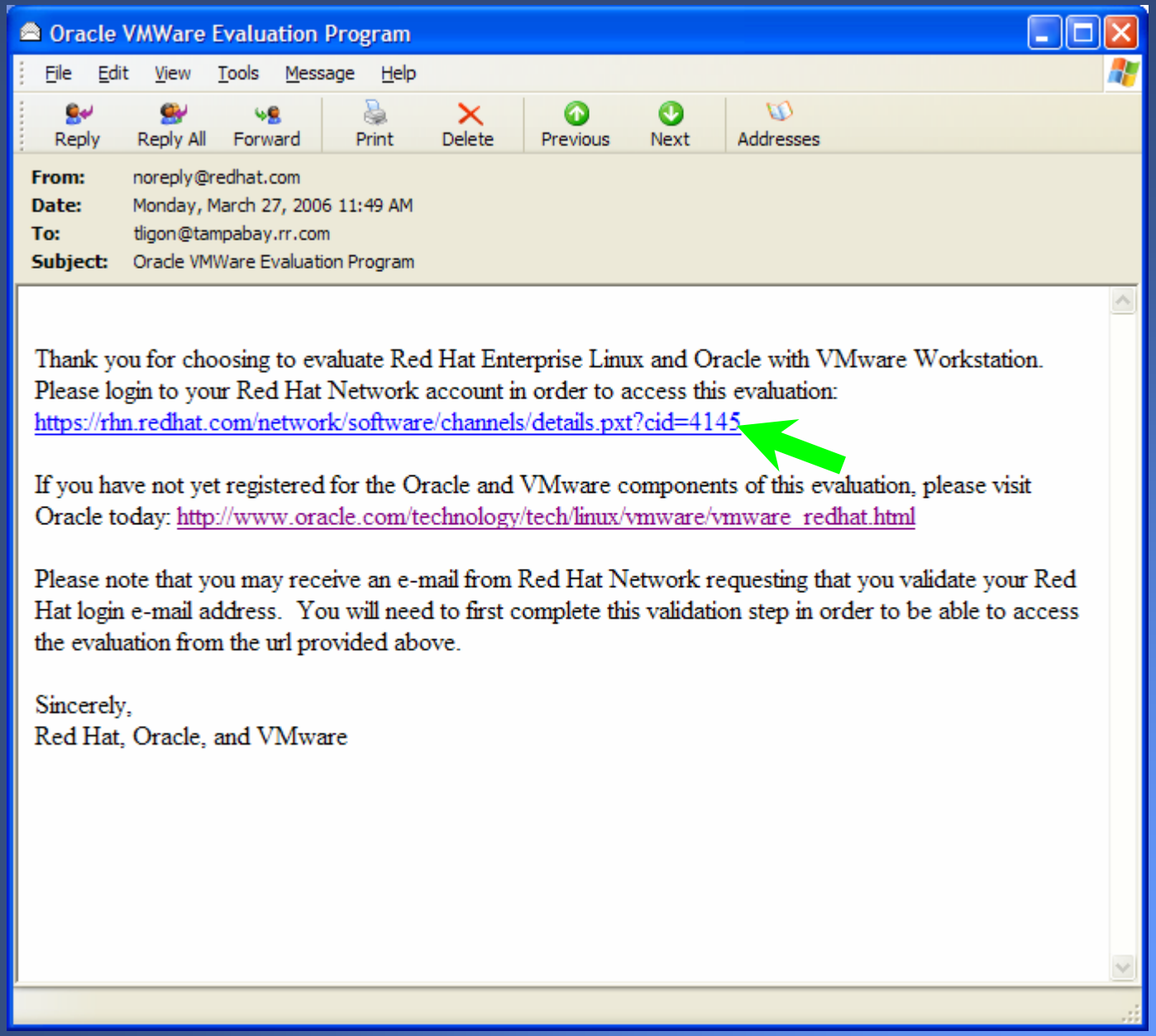
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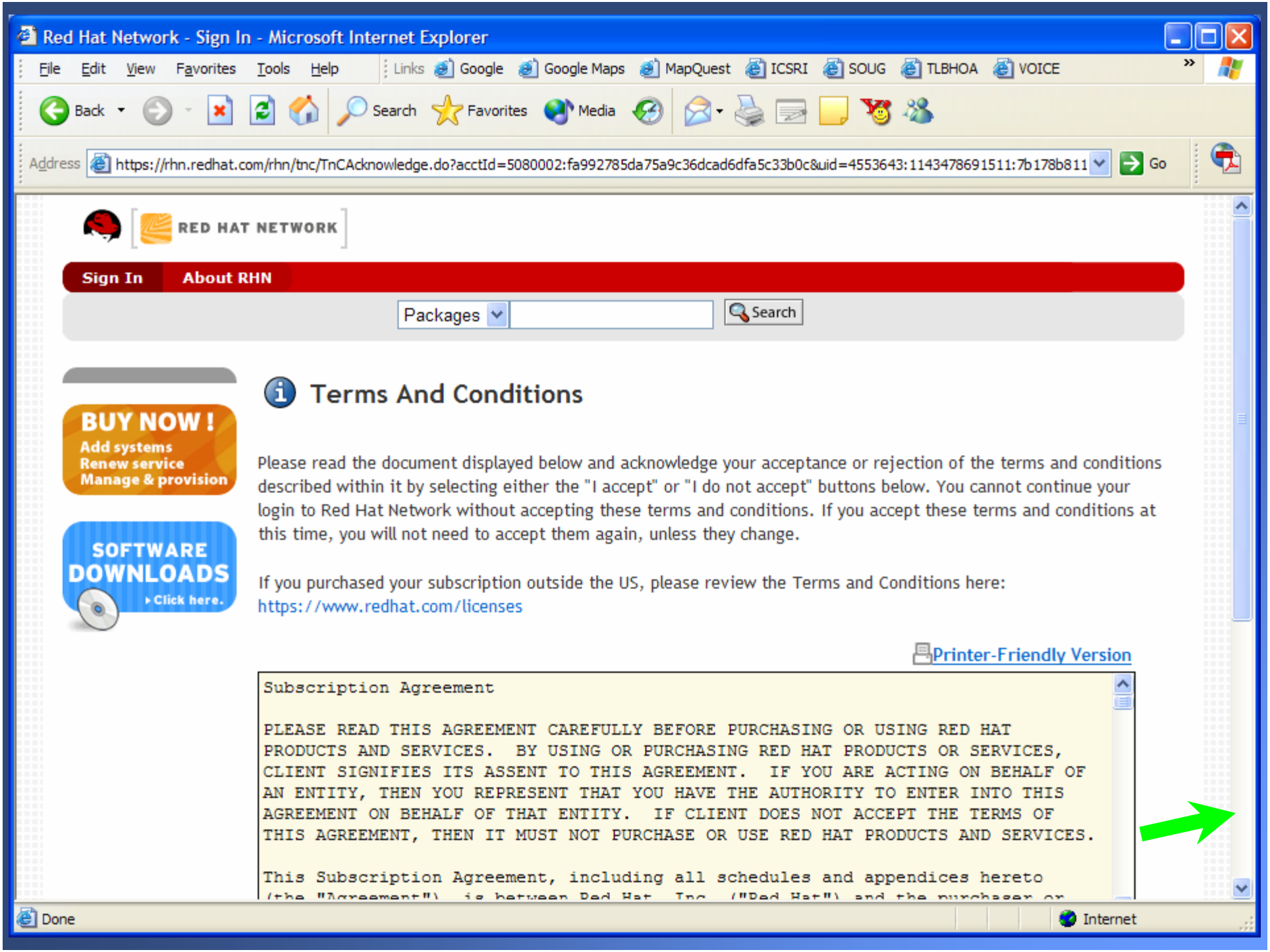
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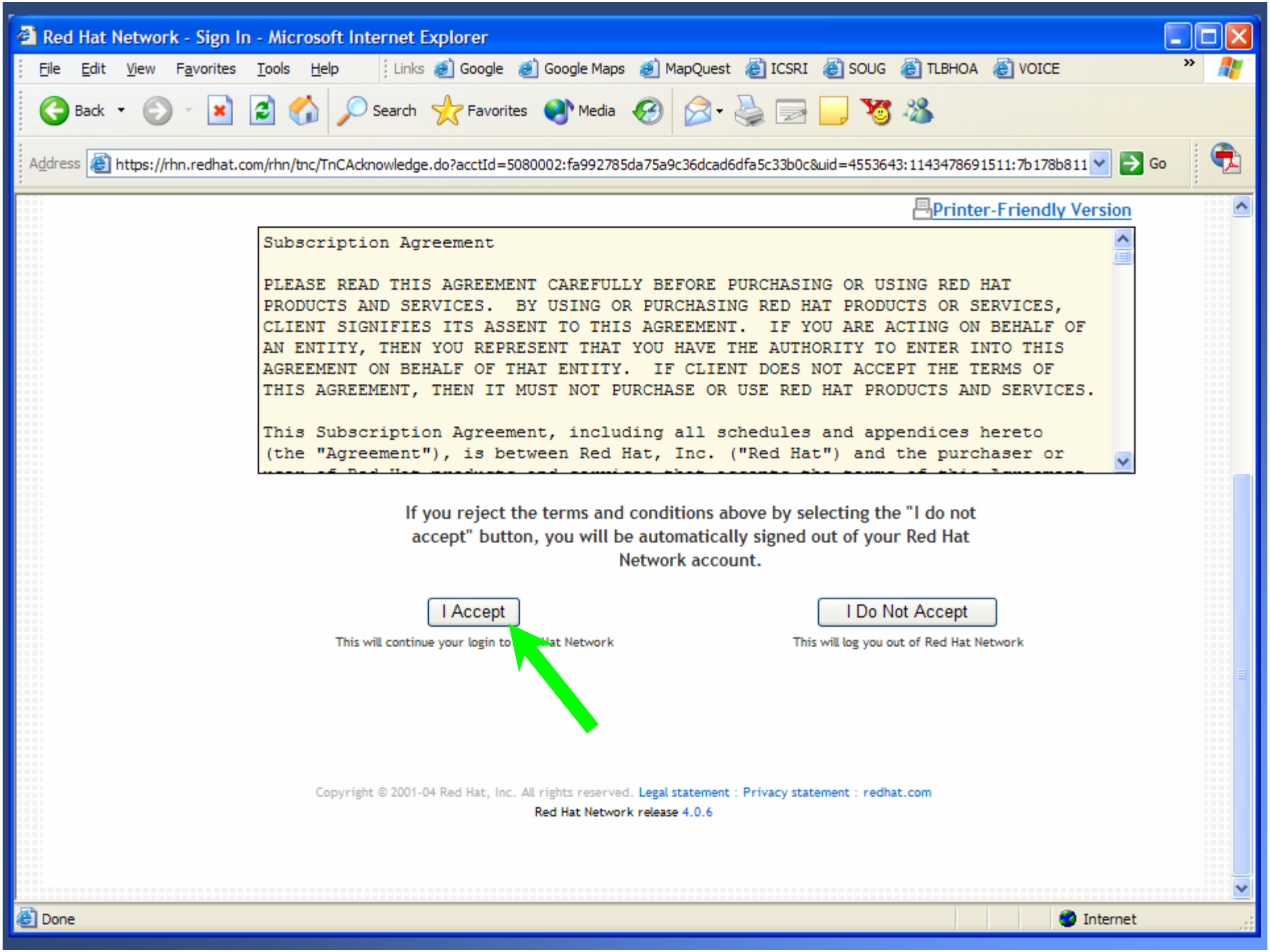
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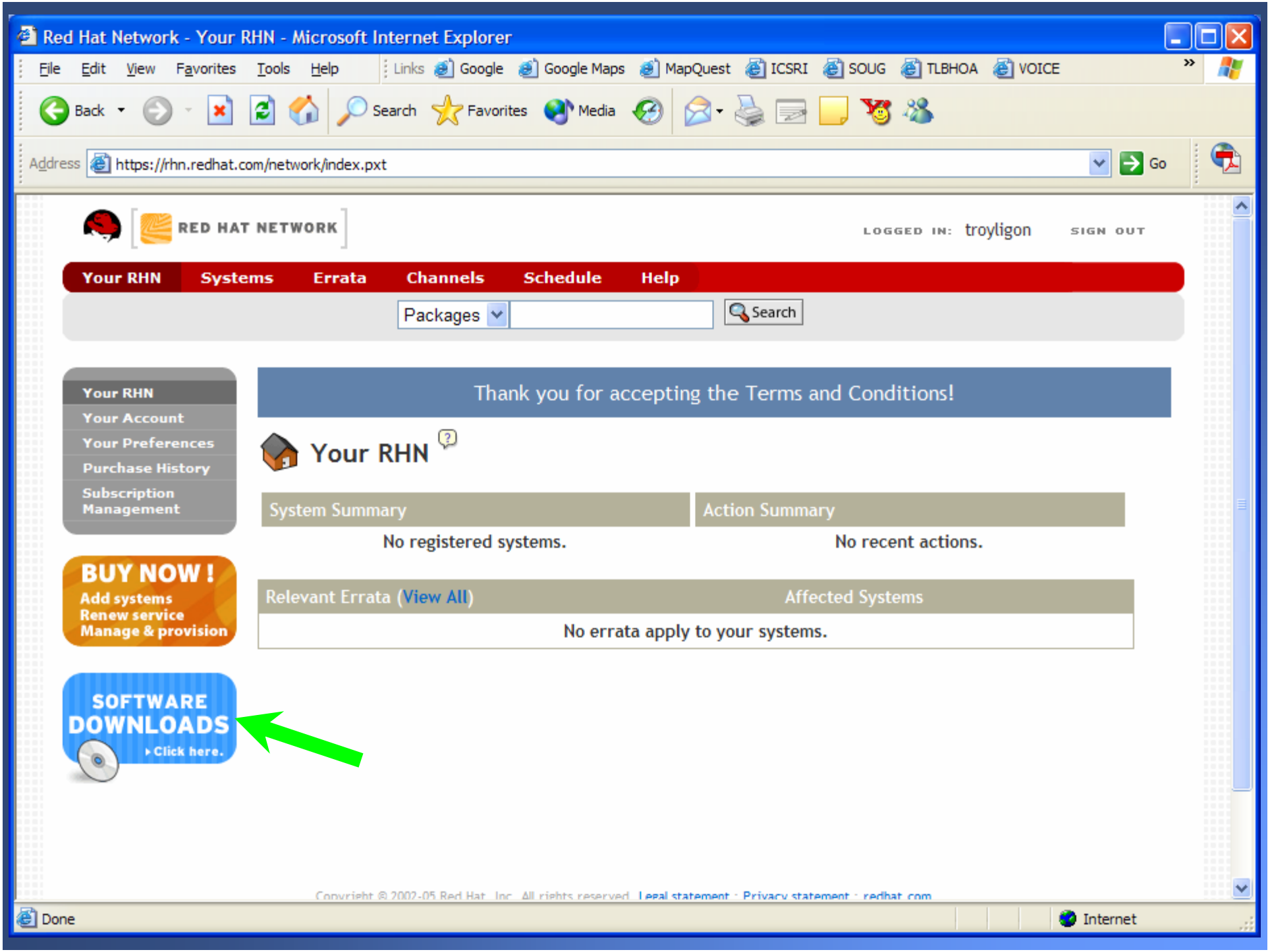
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Affected Systems
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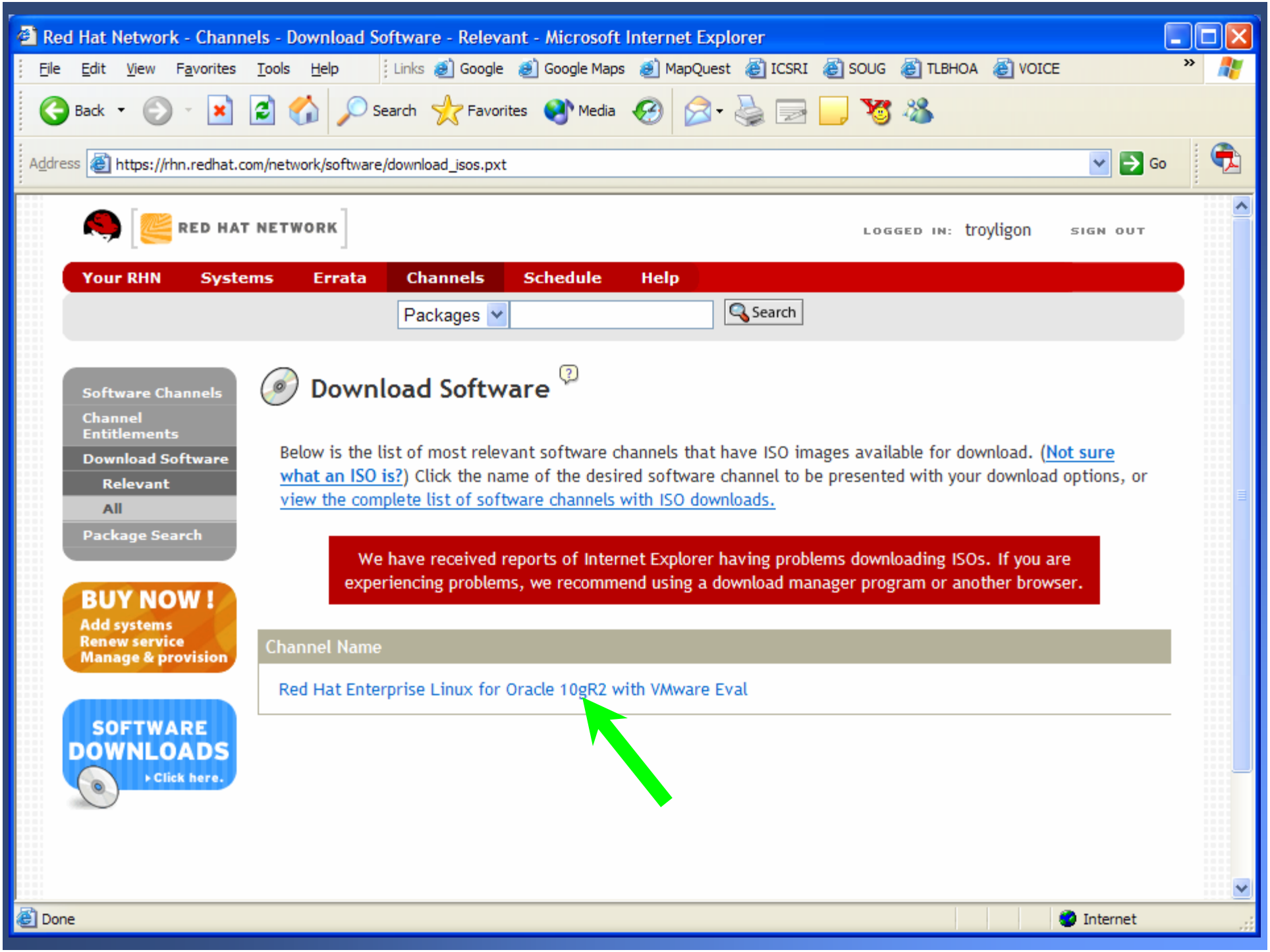
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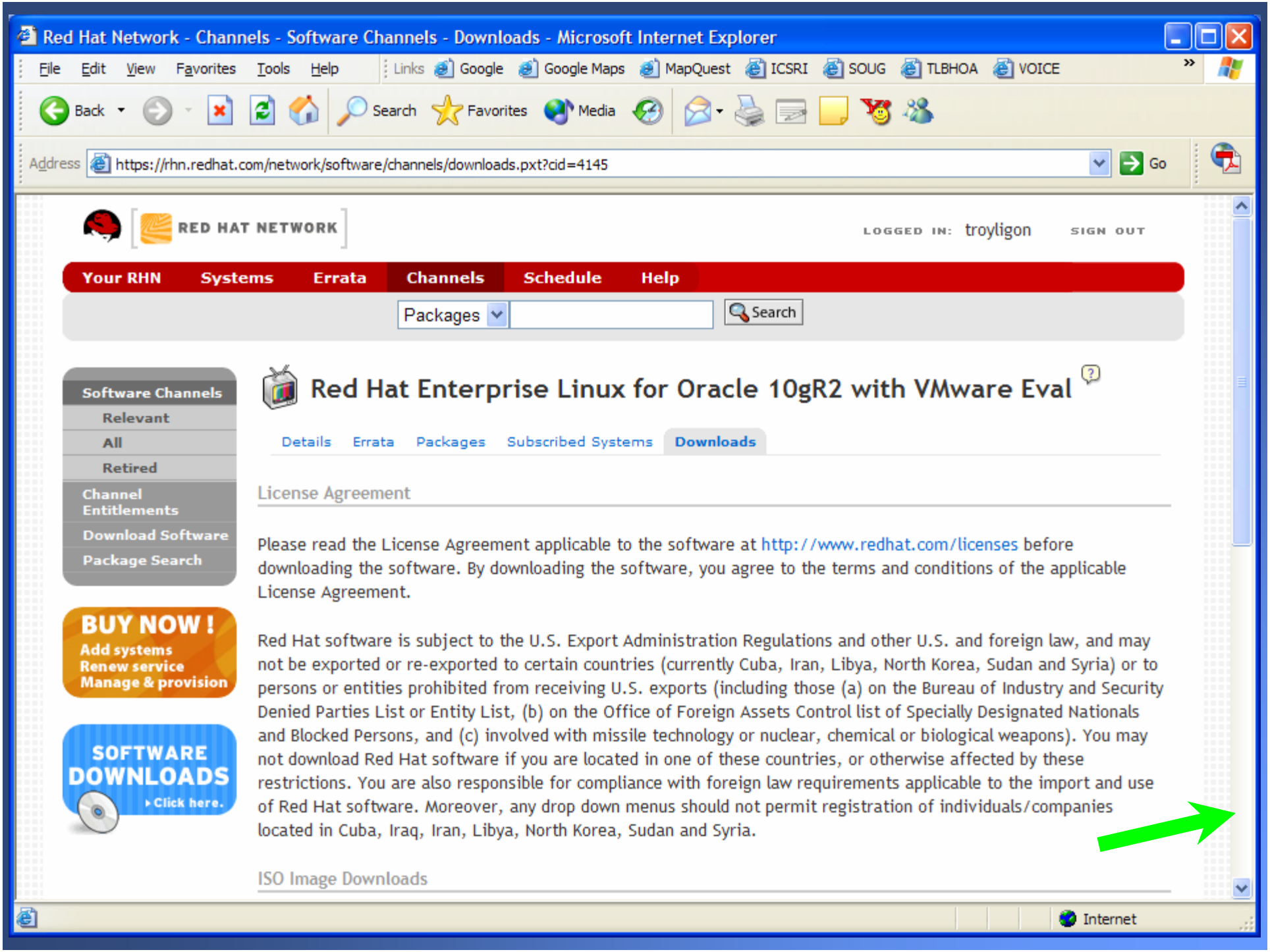
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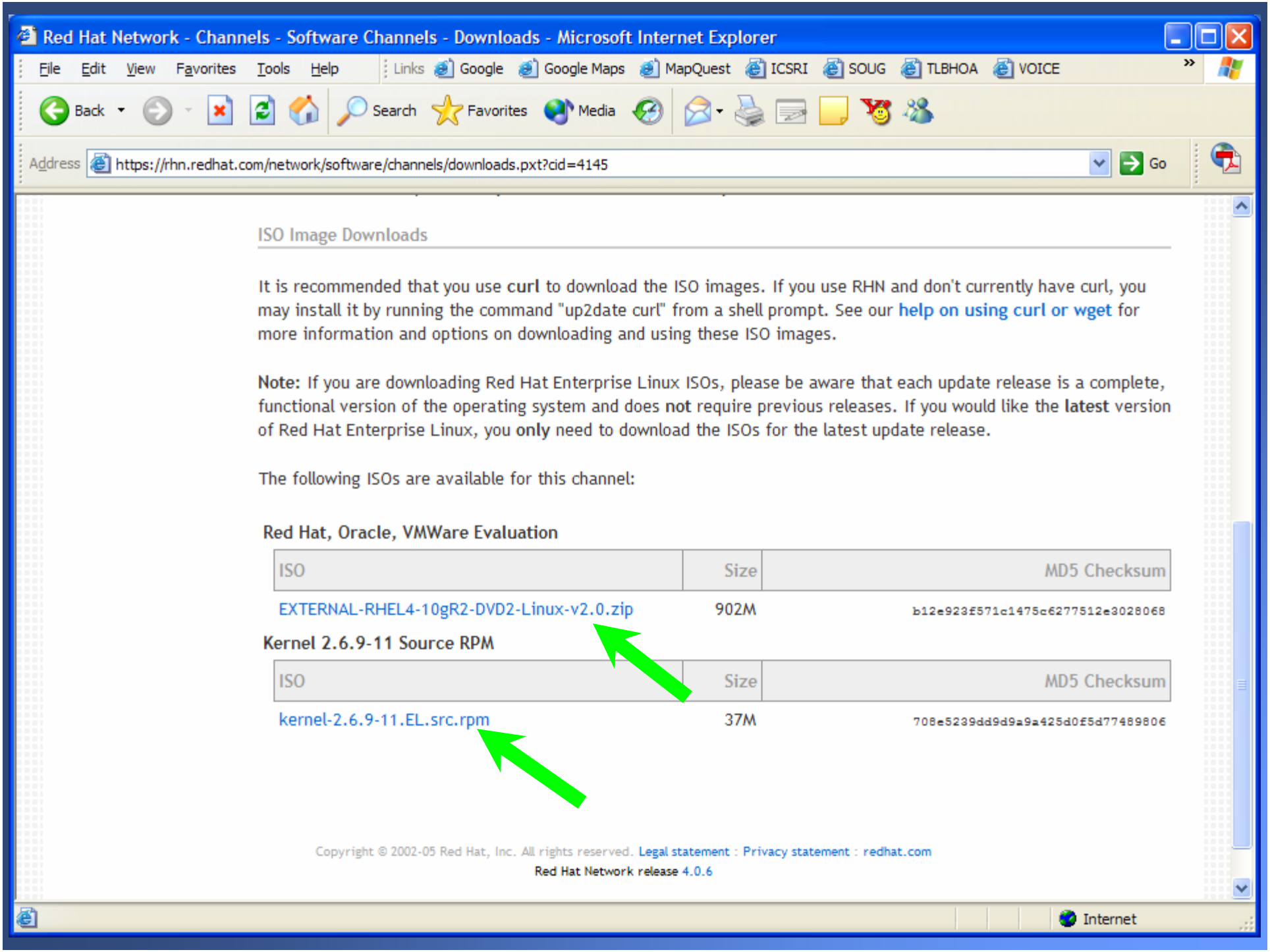
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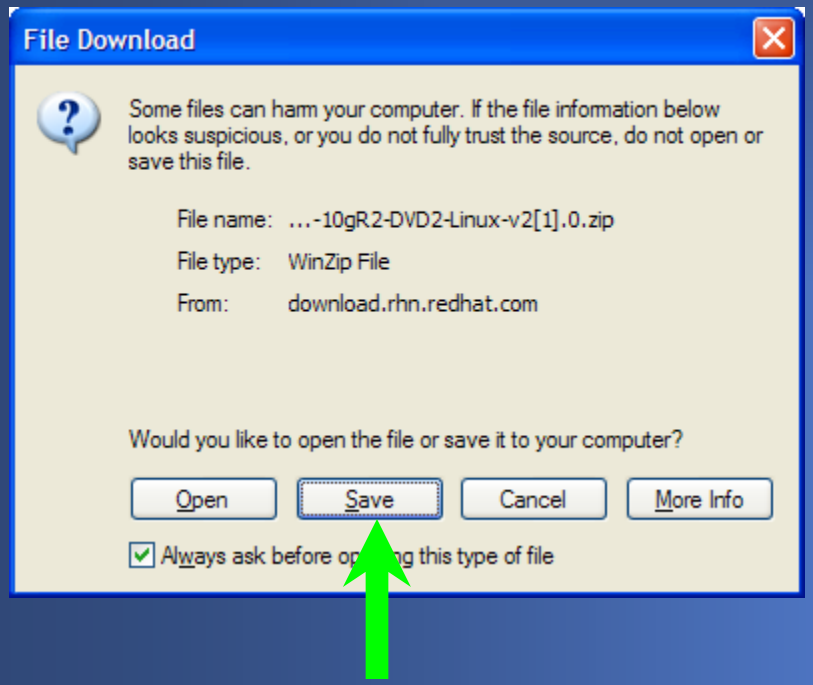
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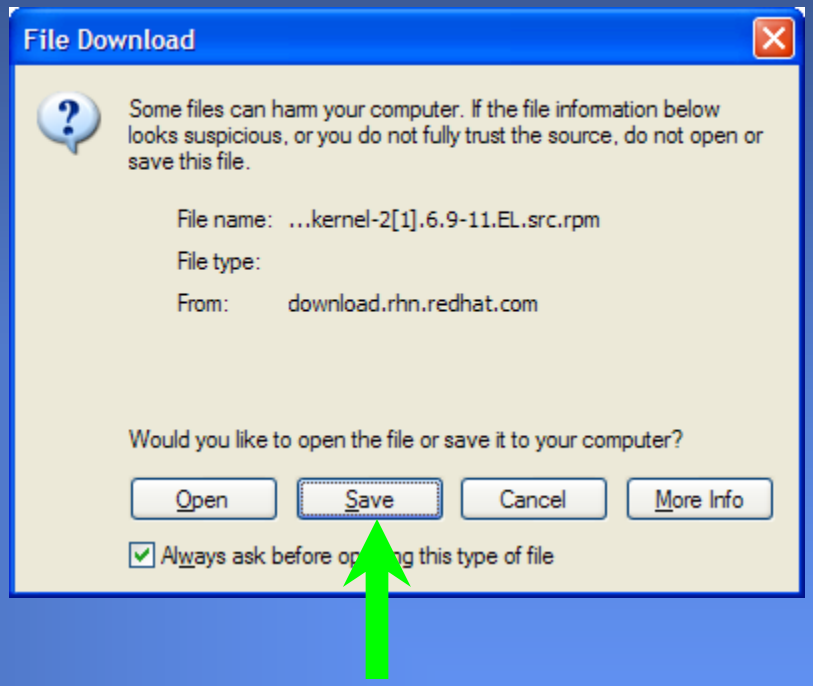
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What Do I Have?

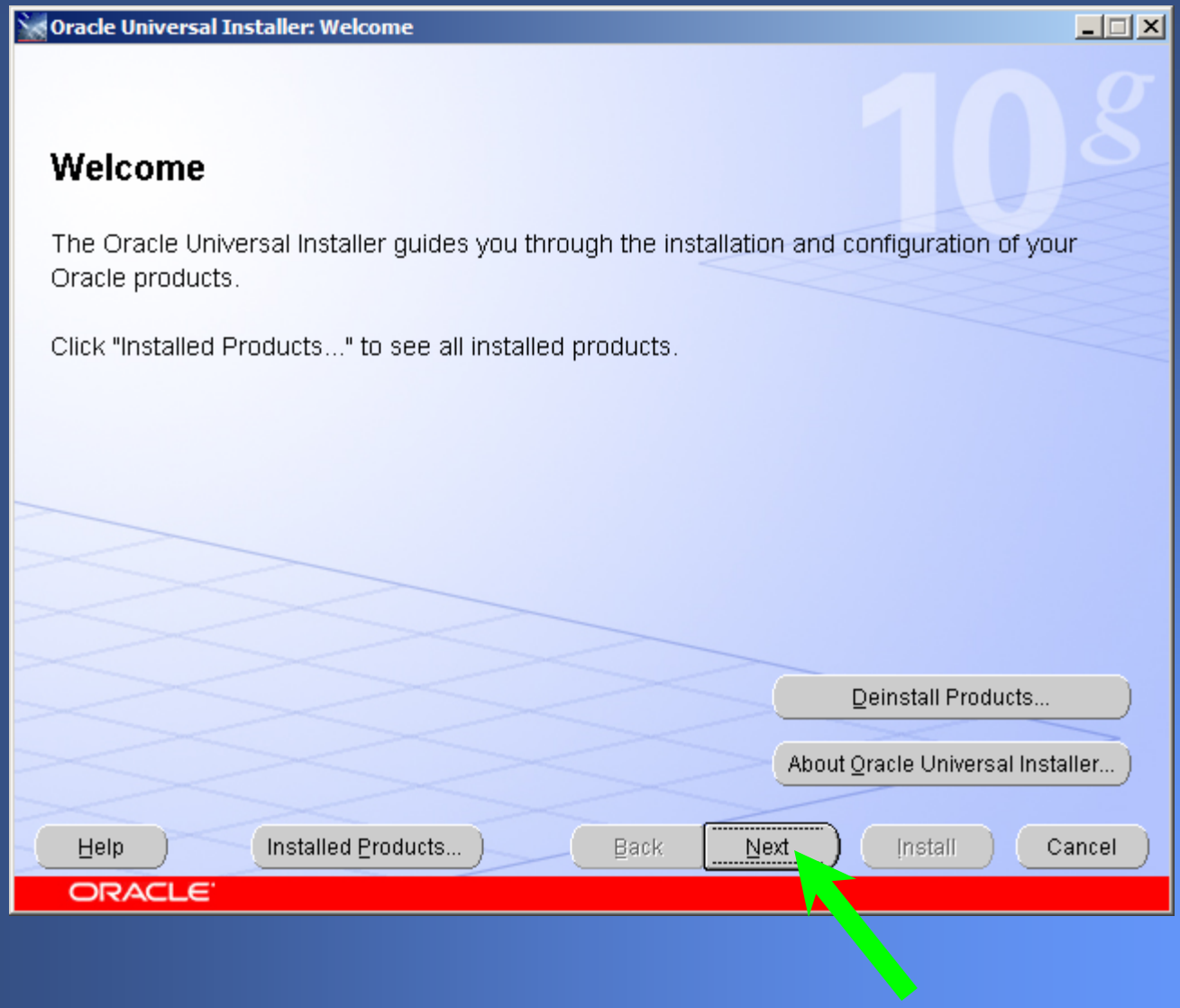
DVD1-1of2-Oracle-v2.0.zip
DVD1-2of2-Oracle-v2.0.zip
DVD2-VMWare-v2.0.zip
DVD2-Linux-v2.0.zip
DVD2-kernel-v2.6.9-11.EL.src.rpm

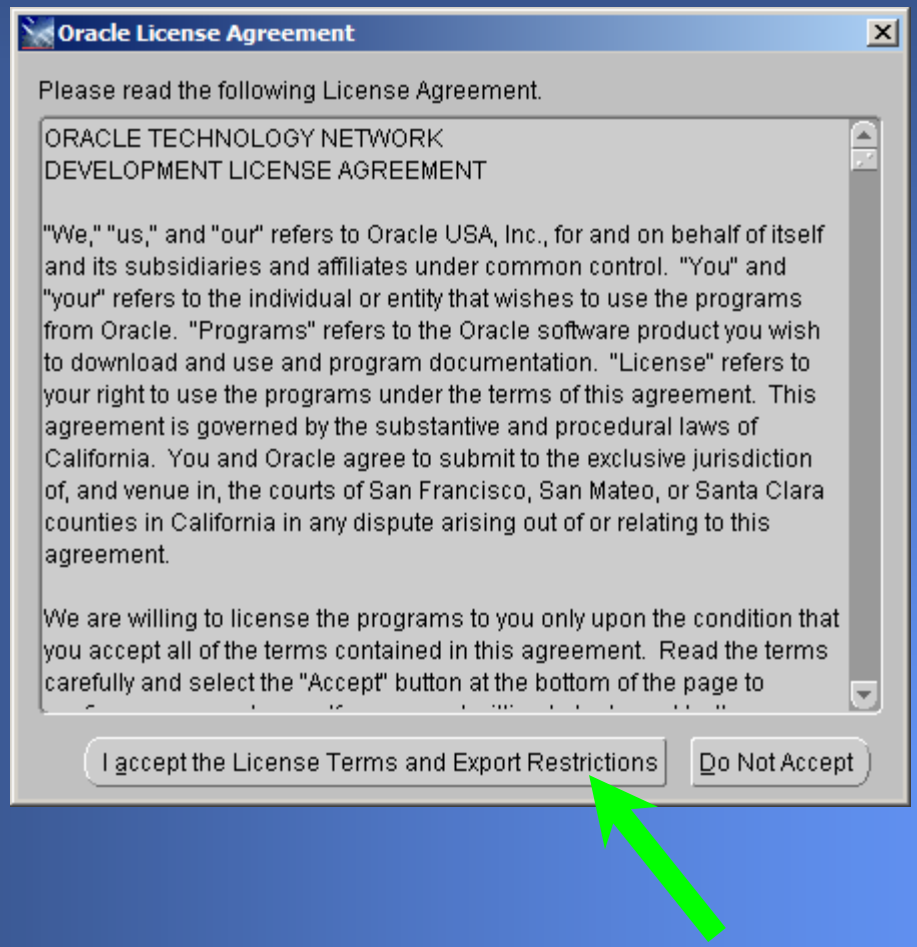
Unzip them all into the same dir and you end up with the following (approx. 3.65gig):

Disk1
Disk2
readme_oracleonlnxeval.txt
README_RedHat.pdf

Run the Install

Disk1\install\setup.exe


Oracle Universal Installer: Welcome
Welcome
The Oracle Universal Installer guides you through the installation and configuration of your Oracle products.
Click "Installed Products..." to see all installed products.
Deinstall Products...
About Oracle Universal Installer...
Help
Installed Products...
Back
Next
Install
Cancel
ORACLE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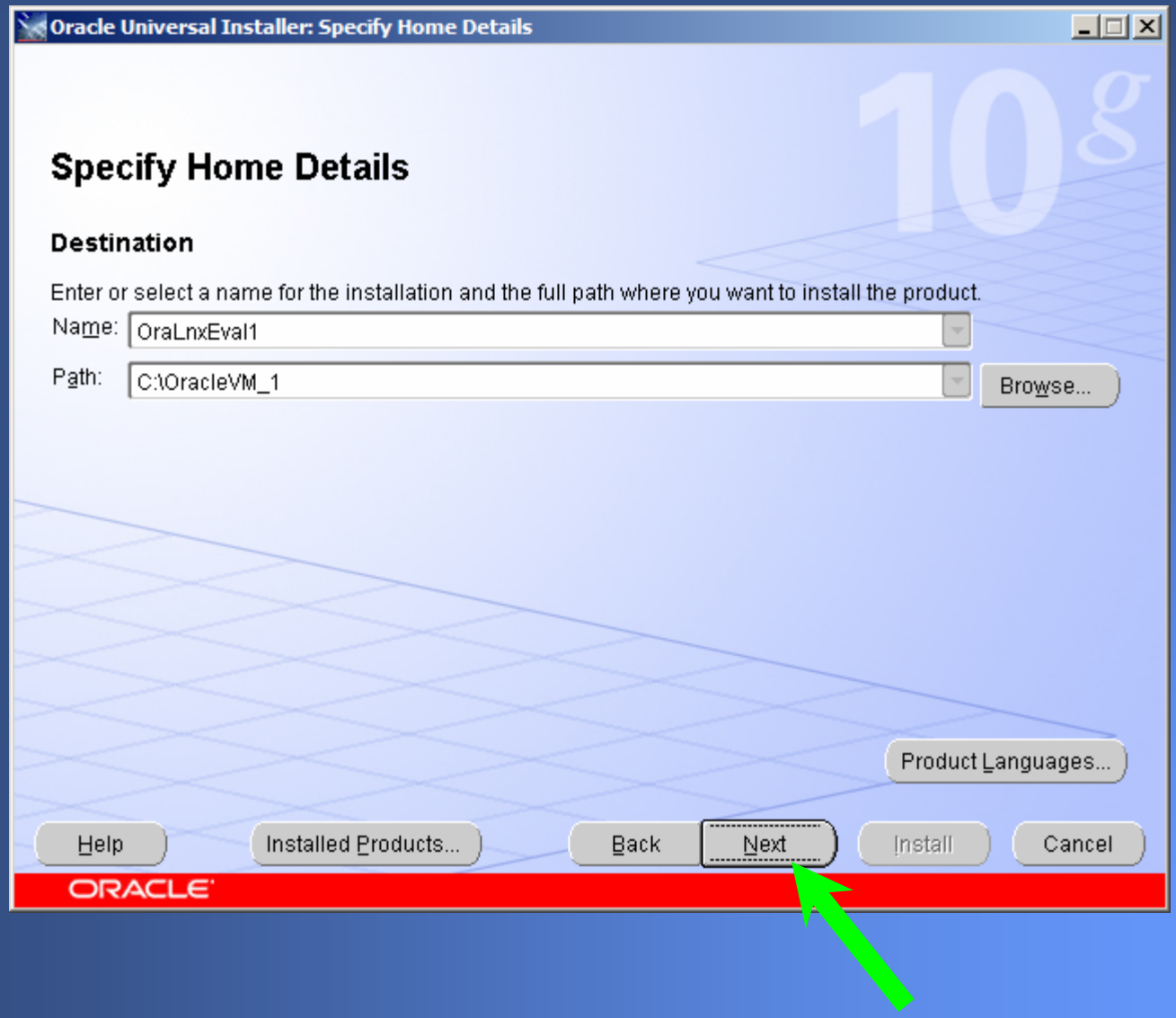
Oracle Universal Installer: Specify Home Details
Specify Home Details
Destination
Enter or select a name for the installation and the full path where you want to install the product.
Name:
OraLnxEval1
Path:
C:\OracleVM_1
Browse...
Product Languages...
Help
Installed Products...
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Next
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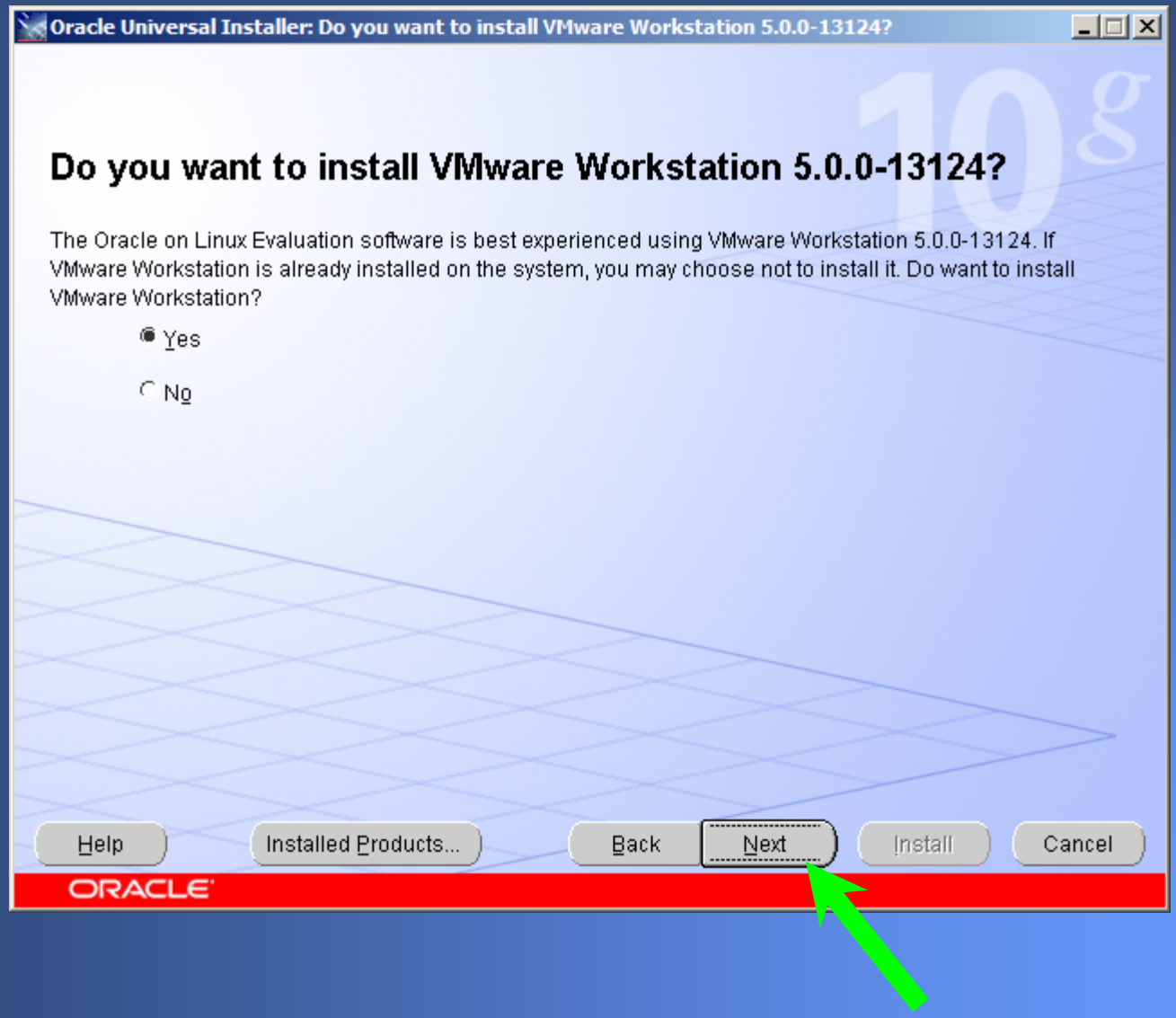
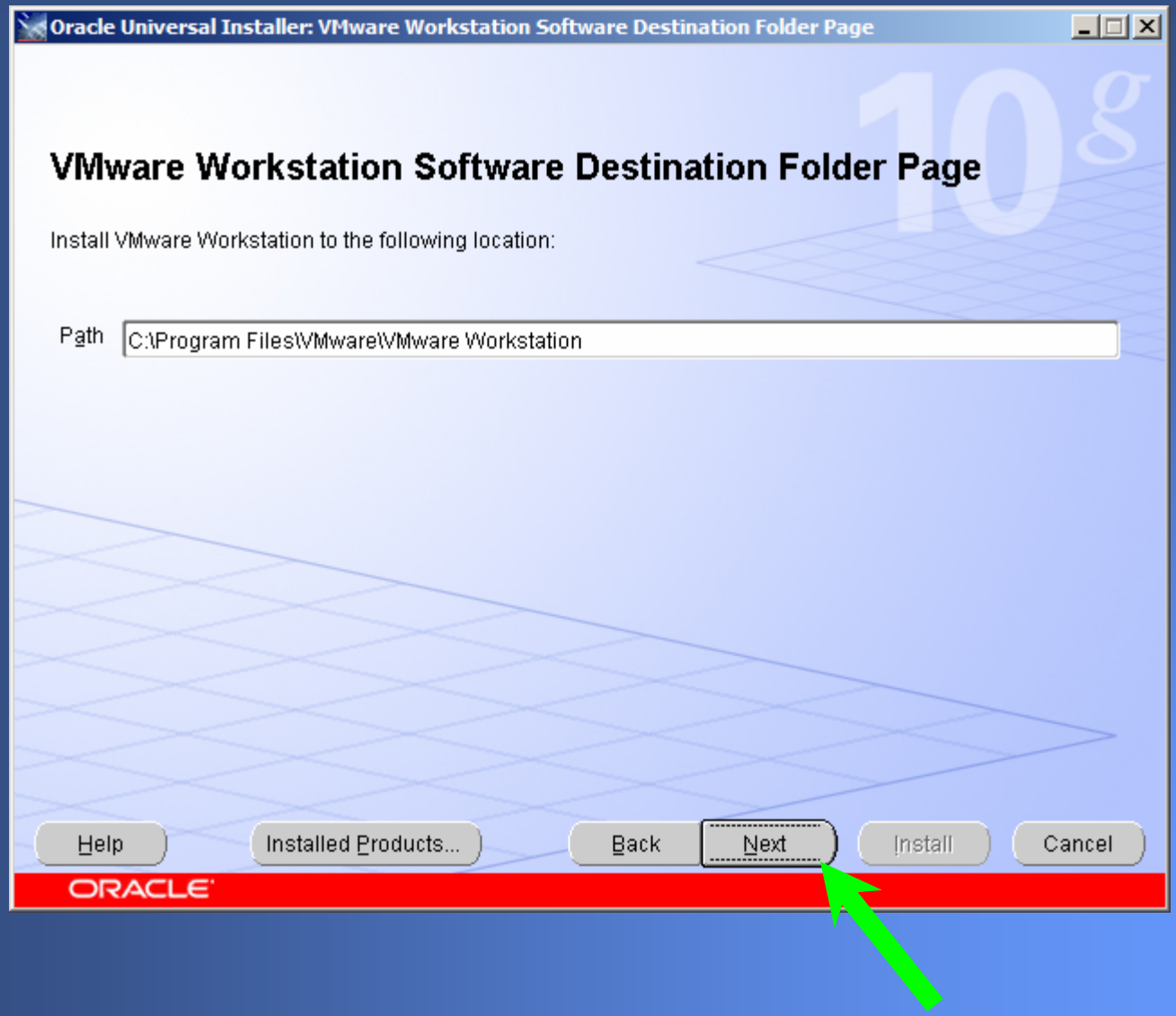
ORACLE


Oracle Universal Installer: Do you want to install VMware Workstation 5.0.0-13124?
Do you want to install VMware Workstation 5.0.0-13124?
The Oracle on Linux Evaluation software is best experienced using VMware Workstation 5.0.0-13124. If VMware Workstation is already installed on the system, you may choose not to install it. Do want to install VMware Workstation?
Yes
No
Help
Installed Products...
Back
Next
Install
Cancel
ORACLE


Oracle Universal Installer: VMware Workstation Software Destination Folder Page
VMware Workstation Software Destination Folder Page
Install VMware Workstation to the following location:
Path
C:\Program Files\VMware\VMware Workstation
Help
Installed Products...
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Cancel
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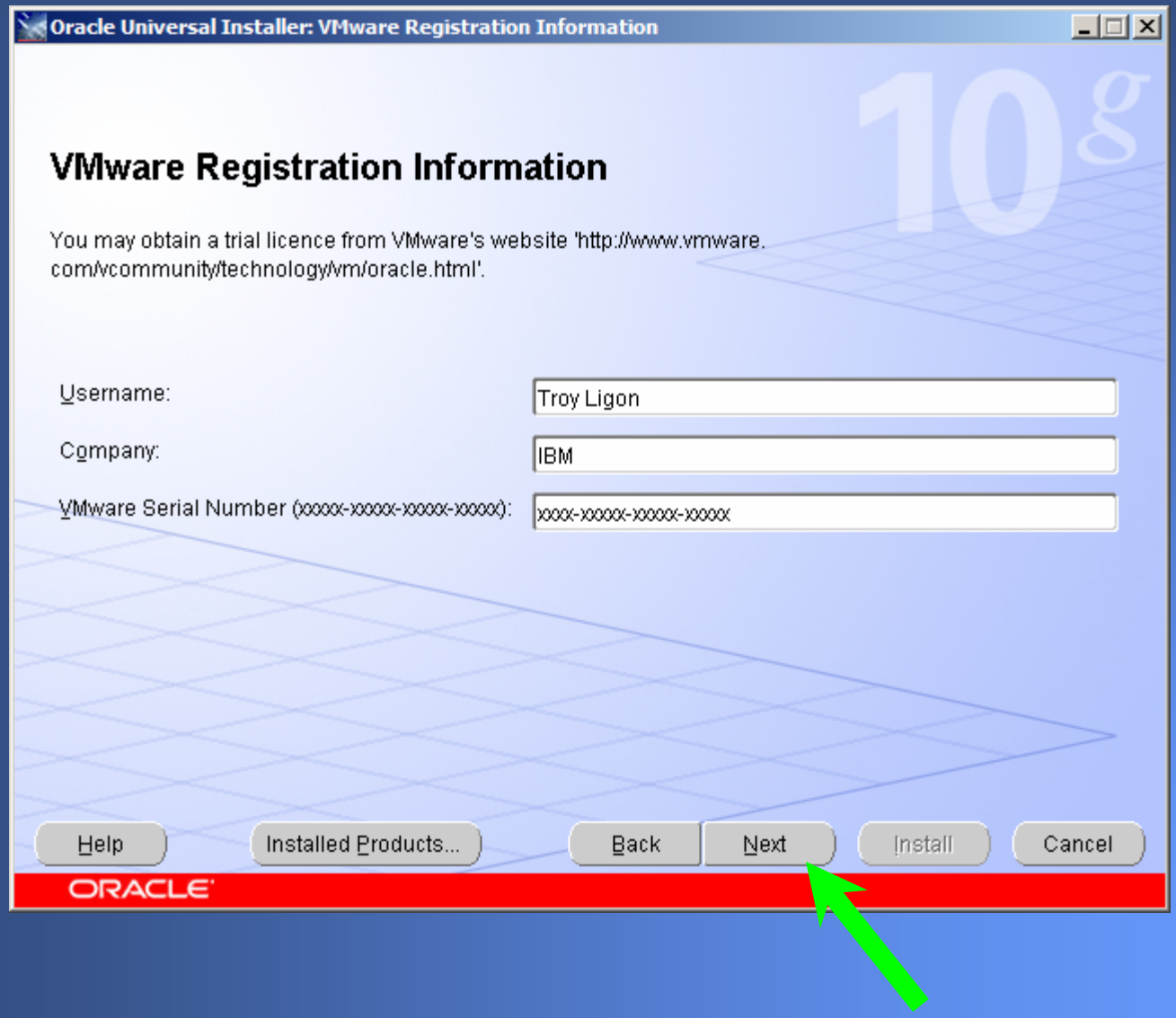
Oracle Universal Installer: VMware Registration Information
VMware Registration Information
You may obtain a trial licence from VMware's website 'http://www.vmware.com/vcommunity/technology/vm/oracle.html'.
Username:
Troy Ligon
Company:
IBM
VMware Serial Number (xxxxx-xxxxx-xxxxx-xxxxx):
xxxx-xxxxx-xxxxx-xxxxx
Help
Installed Products...
Back
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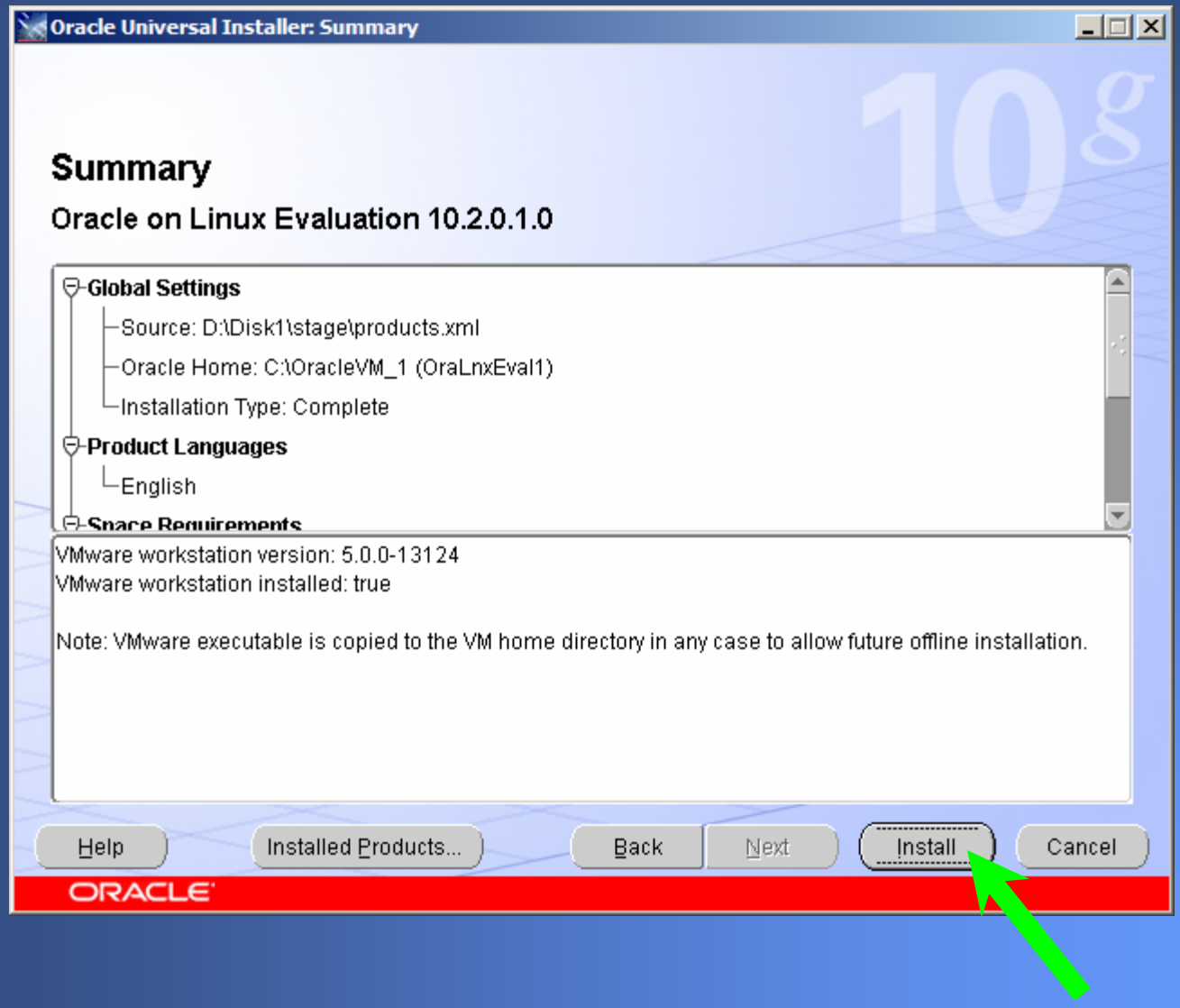
Oracle Universal Installer: Summary
Summary
Oracle on Linux Evaluation 10.2.0.1.0
Global Settings
Source: D:\Disk1\stage\products.xml
Oracle Home: C:\OracleVM_1 (OraLnxEval1)
Installation Type: Complete
Product Languages
English
Space Requirements
VMware workstation version: 5.0.0-13124
VMware workstation installed: true
Note: VMware executable is copied to the VM home directory in any case to allow future offline installation.
Help
Installed Products...
Back
Next
Install
Cancel
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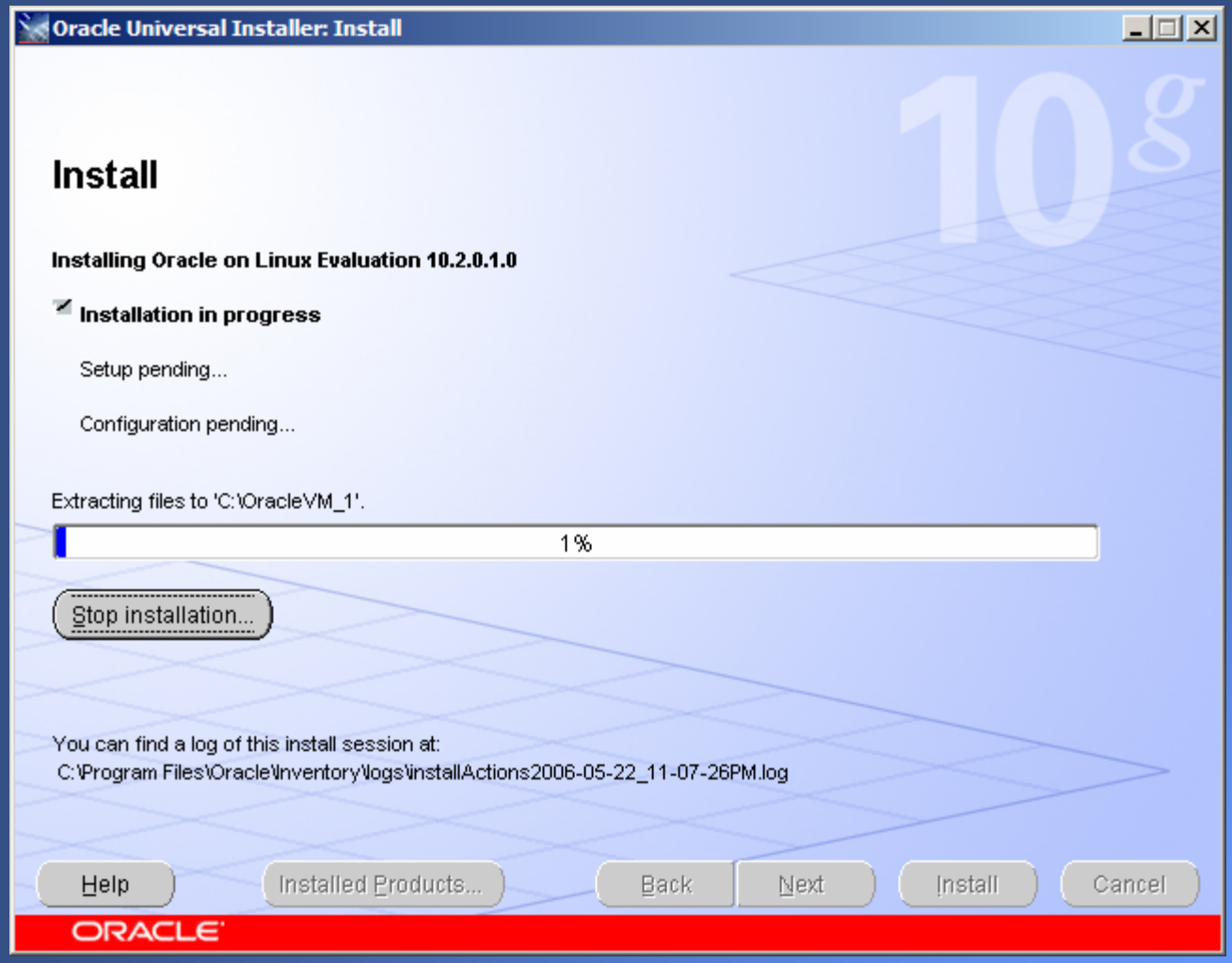
Oracle Universal Installer: Install
Install
Installing Oracle on Linux Evaluation 10.2.0.1.0
Installation in progress
Setup pending...
Configuration pending...
Extracting files to 'C:\OracleVM_1'.
1%
Stop installation...
You can find a log of this install session at:
C:\Program Files\Oracle\Inventory\logs\installActions2006-05-22_11-07-26PM.log
Help
Installed Products...
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Next
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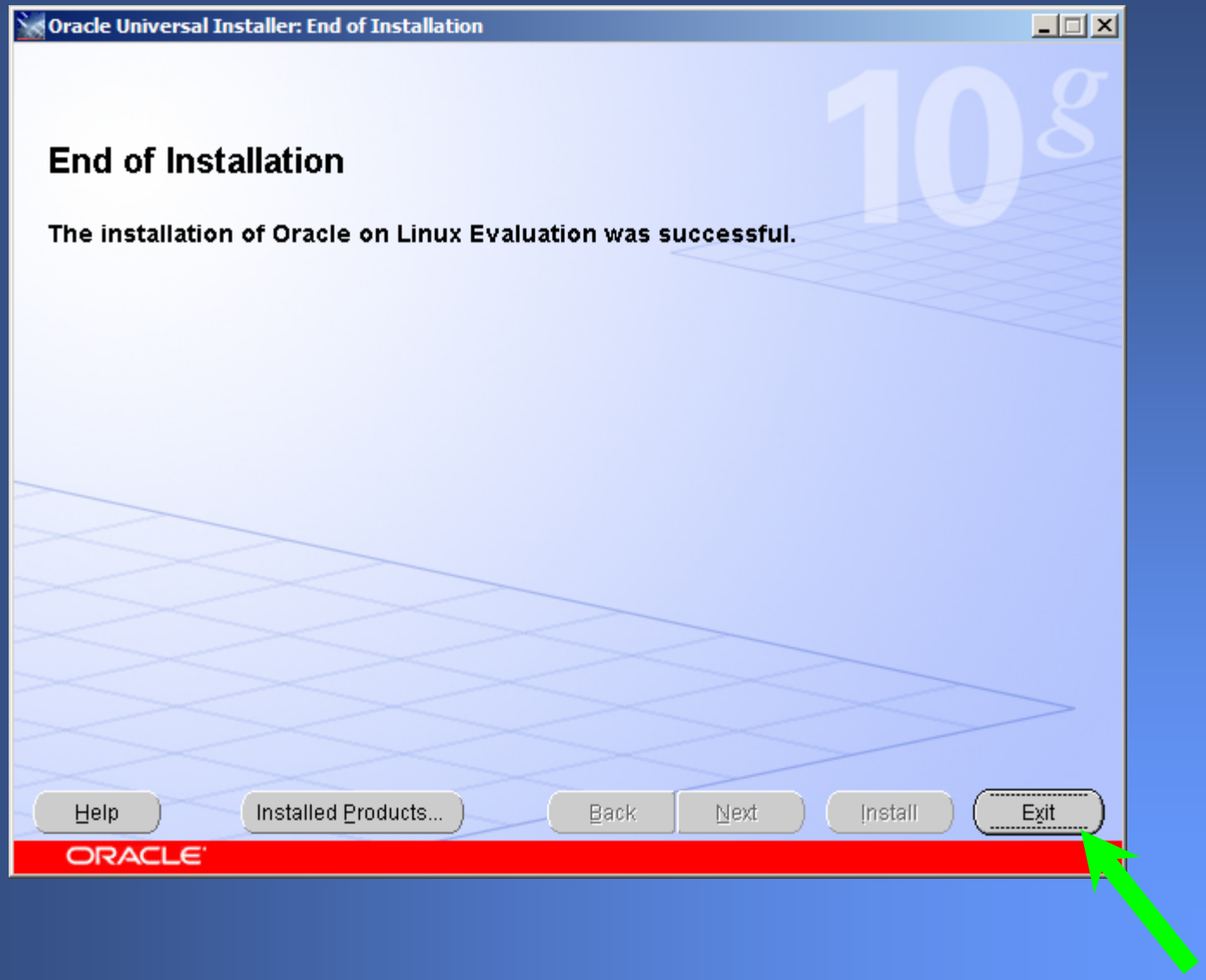
Oracle Universal Installer: End of Installation
End of Installation
The installation of Oracle on Linux Evaluation was successful.
Help
Installed Products...
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Exit
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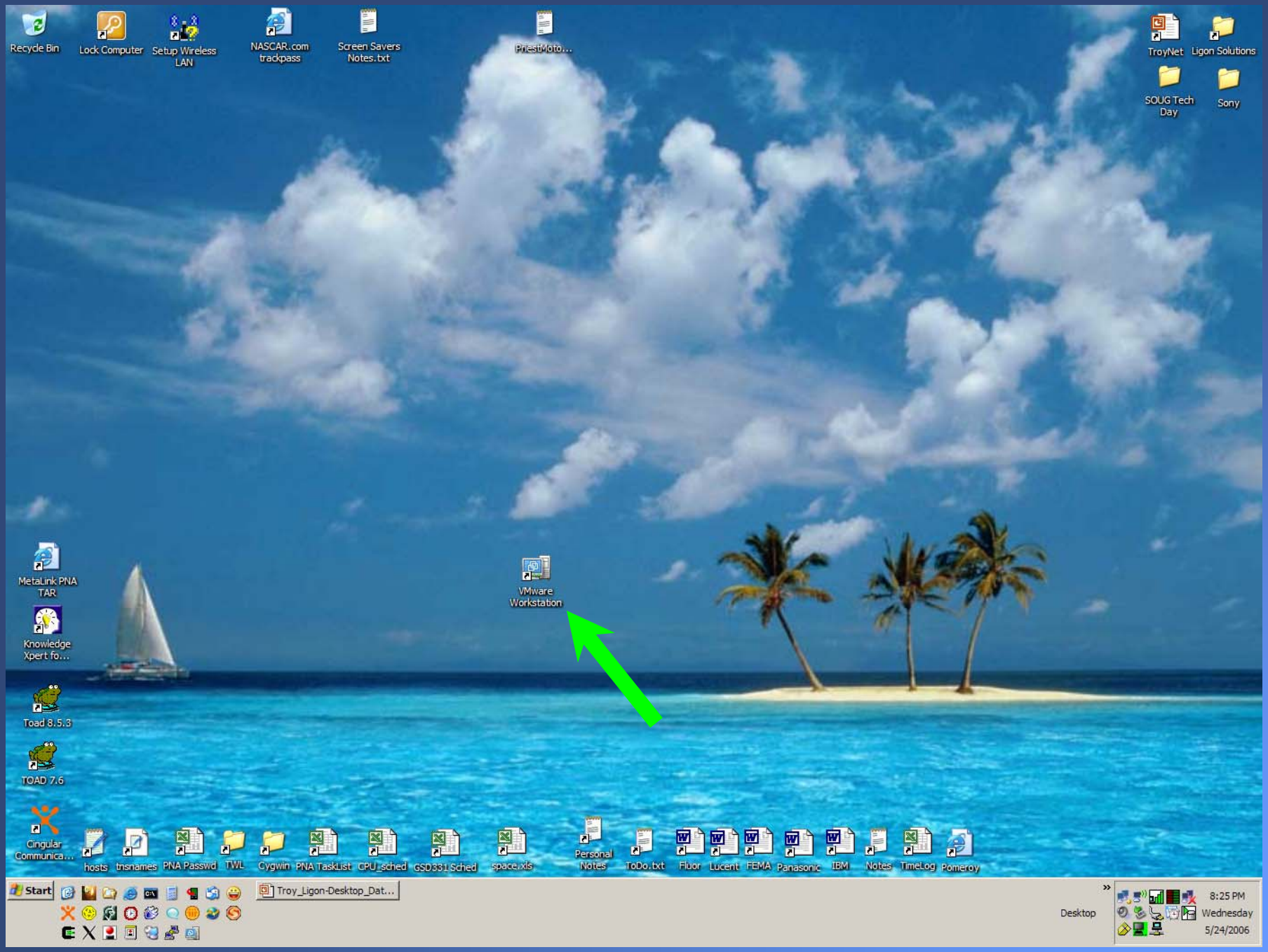
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Ligon Solutions
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Sony
MetaLink PNA TAR
Knowledge Xpert fo...
VMware Workstation
Toad 8.5.3
TOAD 7.6
Cingular Communica...
hosts
tnsnames
PNA Passwd
TWL
Cygwin
PNA TaskList
CPU_sched
GSD331 Sched
space.xls
Personal Notes
ToDo.txt
Fluor
Lucent
FEMA
Panasonic
IBM
Notes
TimeLog
Pomeroy
Start
Troy_Ligon-Desktop_Dat...
Desktop
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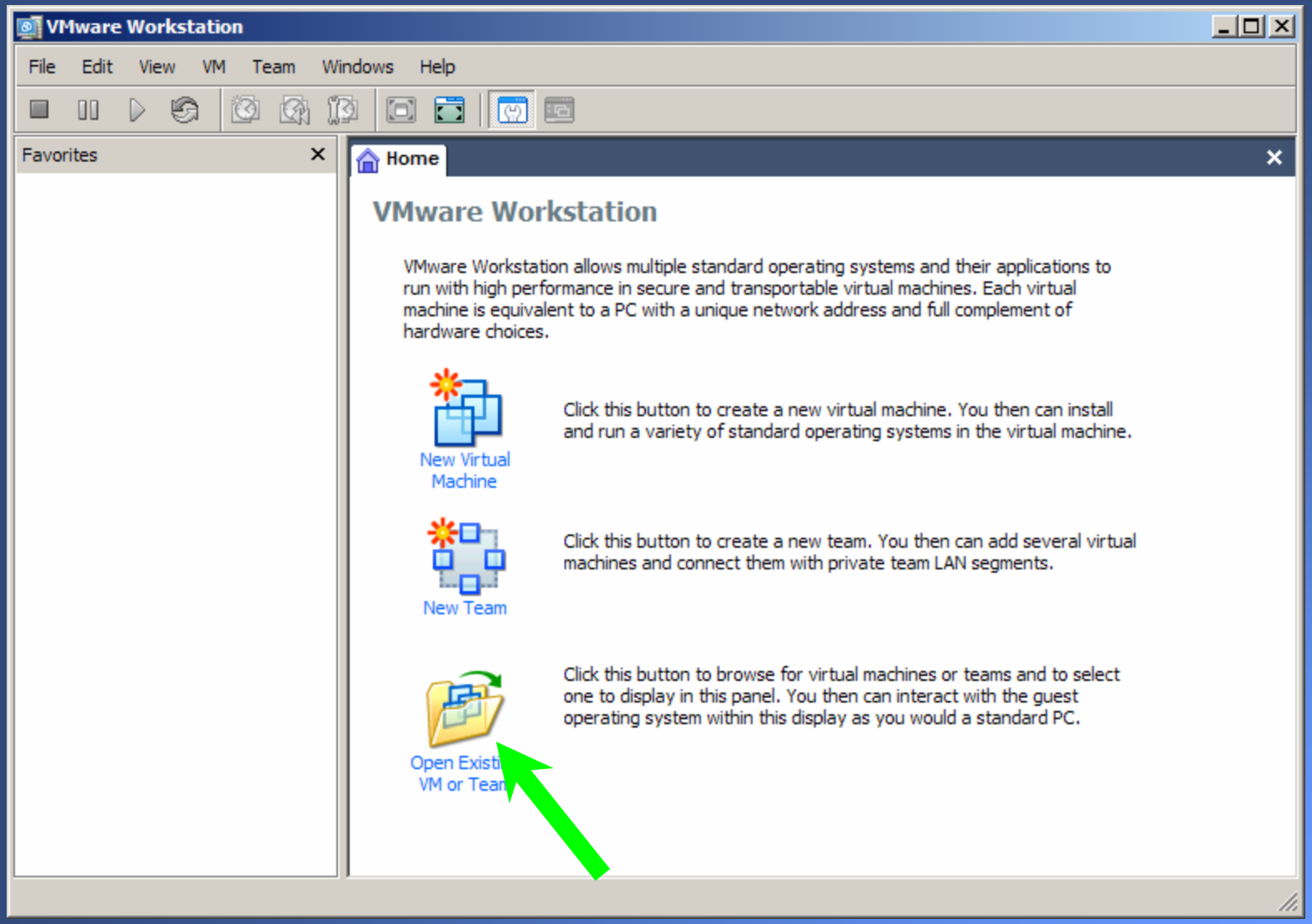
Wednesday
5/24/2006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New Virtual Machine
Click this button to create a new virtual machine. You then can install and run a variety of standard operating systems in the virtual machine.
New Team
Click this button to create a new team. You then can add several virtual machines and connect them with private team LAN segments.
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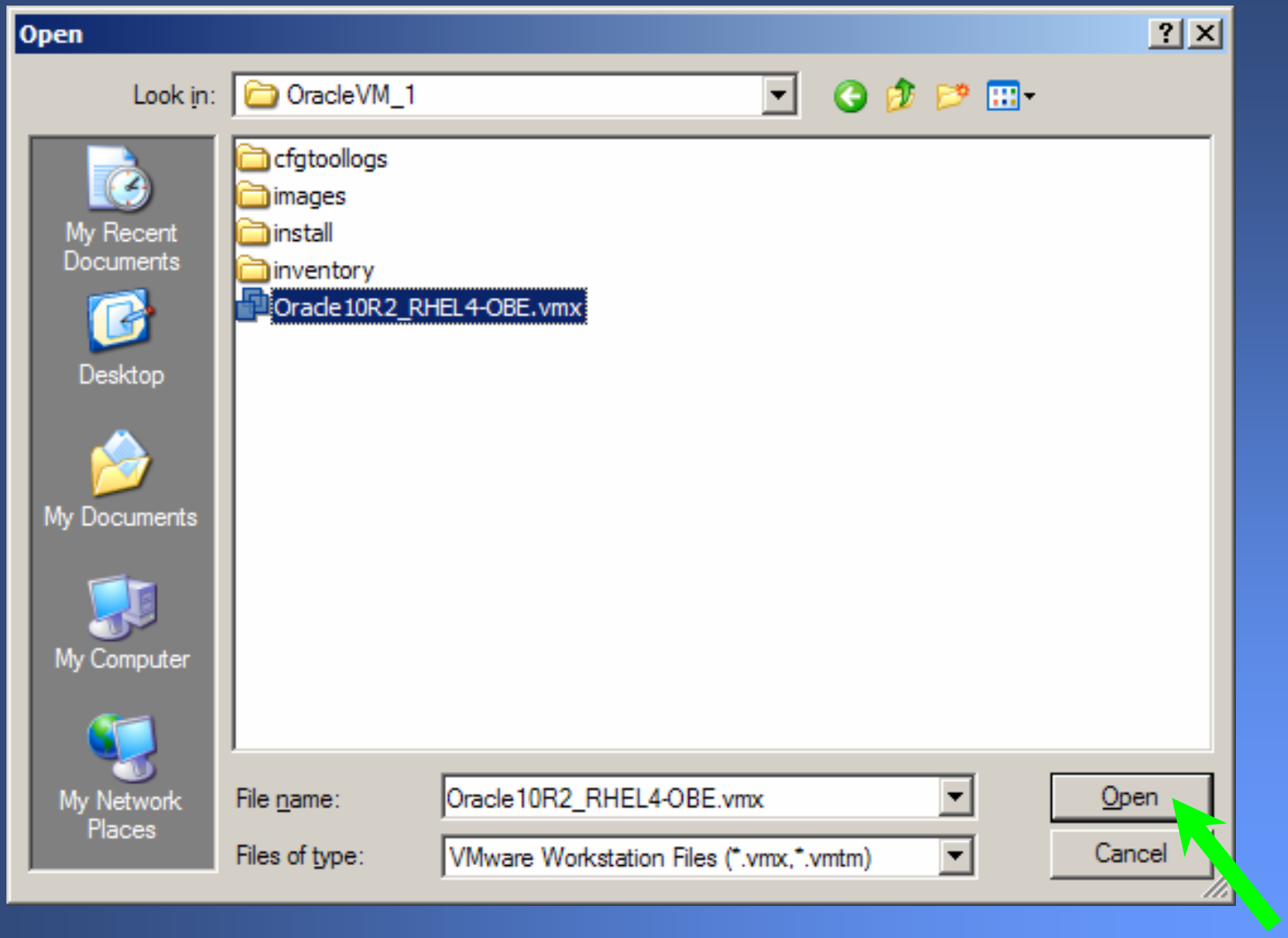
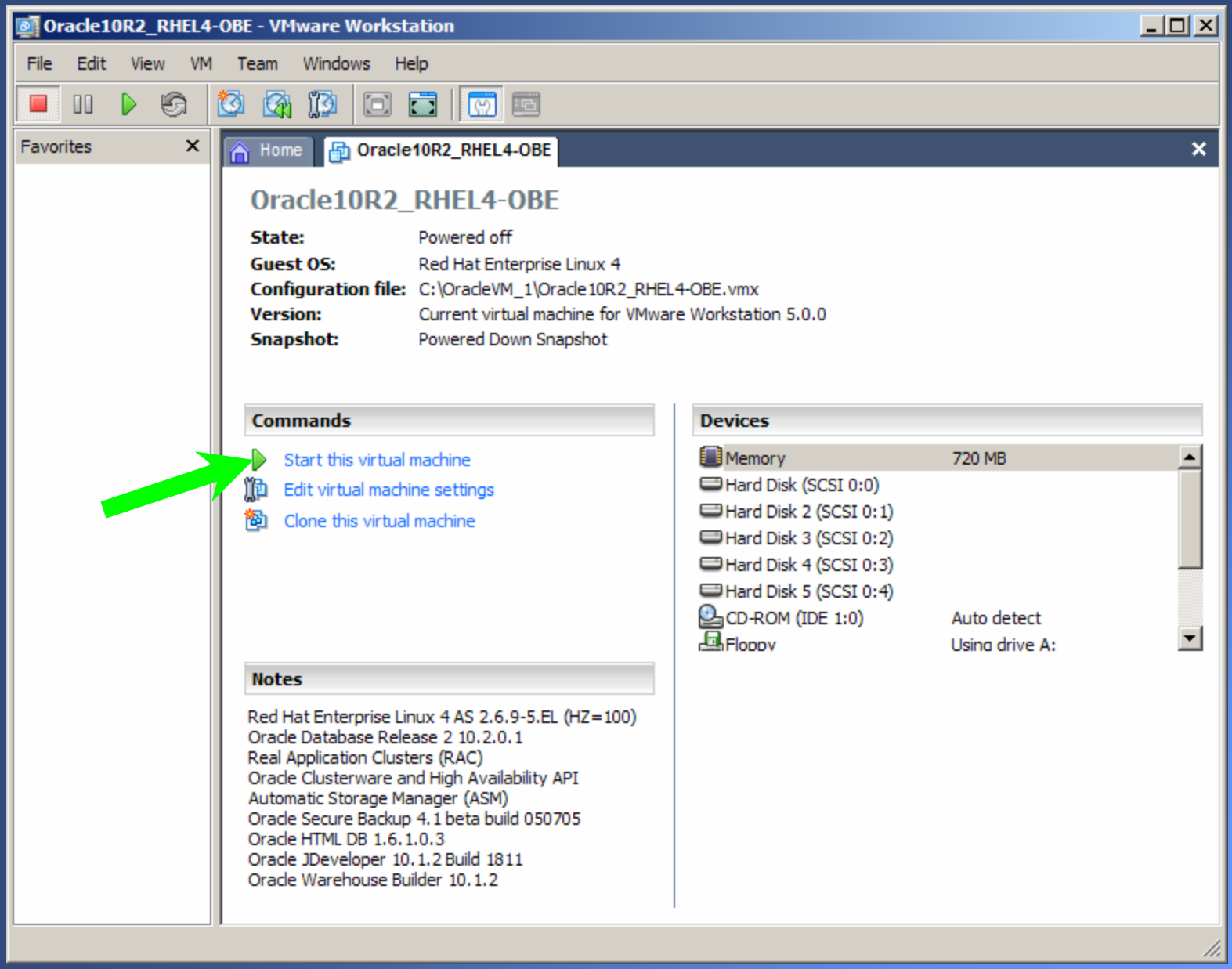
VM or Tean
Click this button to browse for virtual machines or teams and to select one to display in this panel. You then can interact with the guest operating system within this display as you would a standard PC.


Open
Look in:
OracleVM_1
cfgtoollogs
images
install
inventory
Oracle10R2_RHEL4-OBE.vmx
My Recent Documents
Desktop
My Documents
My Computer
My Network Places
File name:
Oracle10R2_RHEL4-OBE.vmx
Files of type:
VMware Workstation Files (*.vmx,*.vmtm)
Open
Cancel


Oracle10R2_RHEL4-OBE - VMware Workstation
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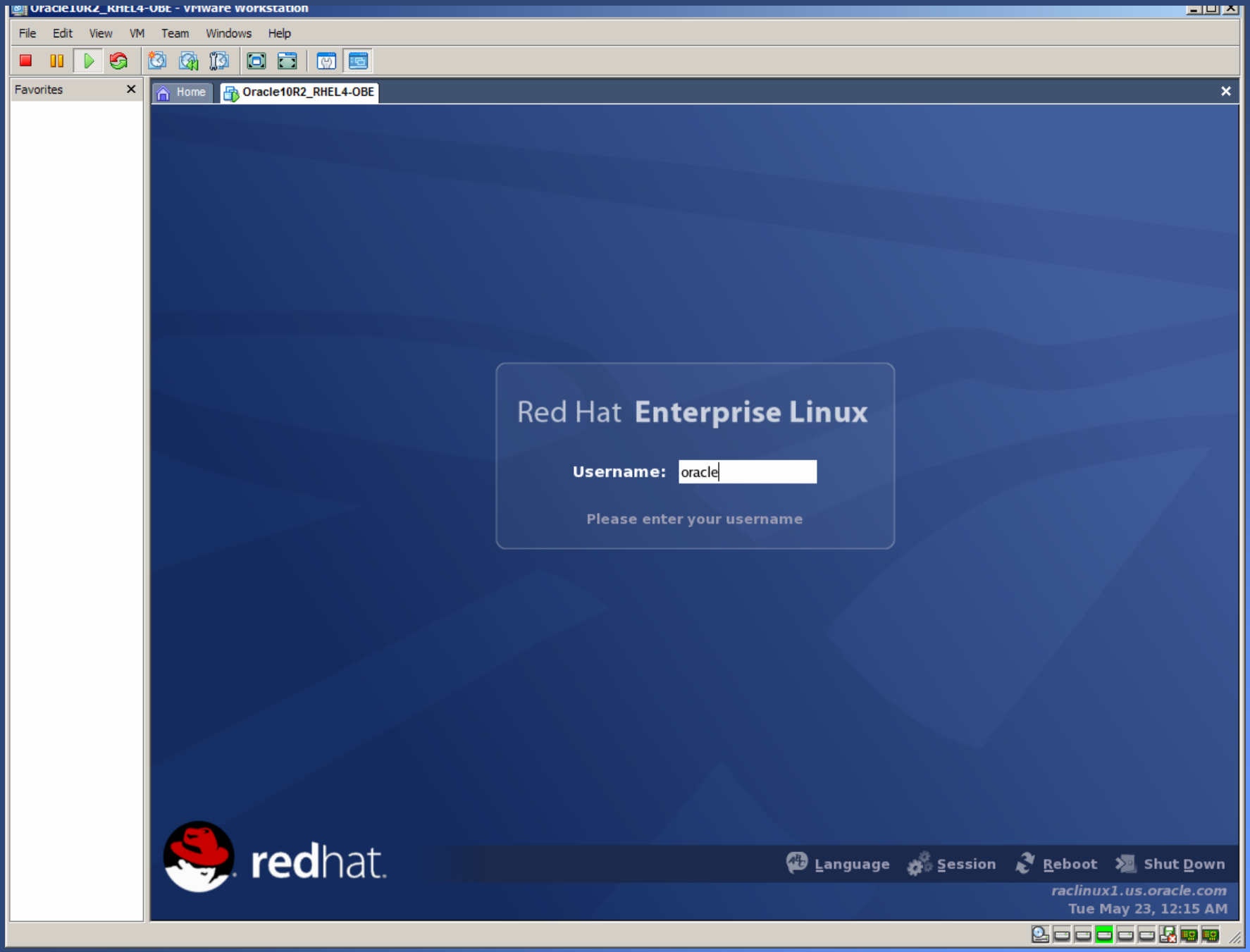
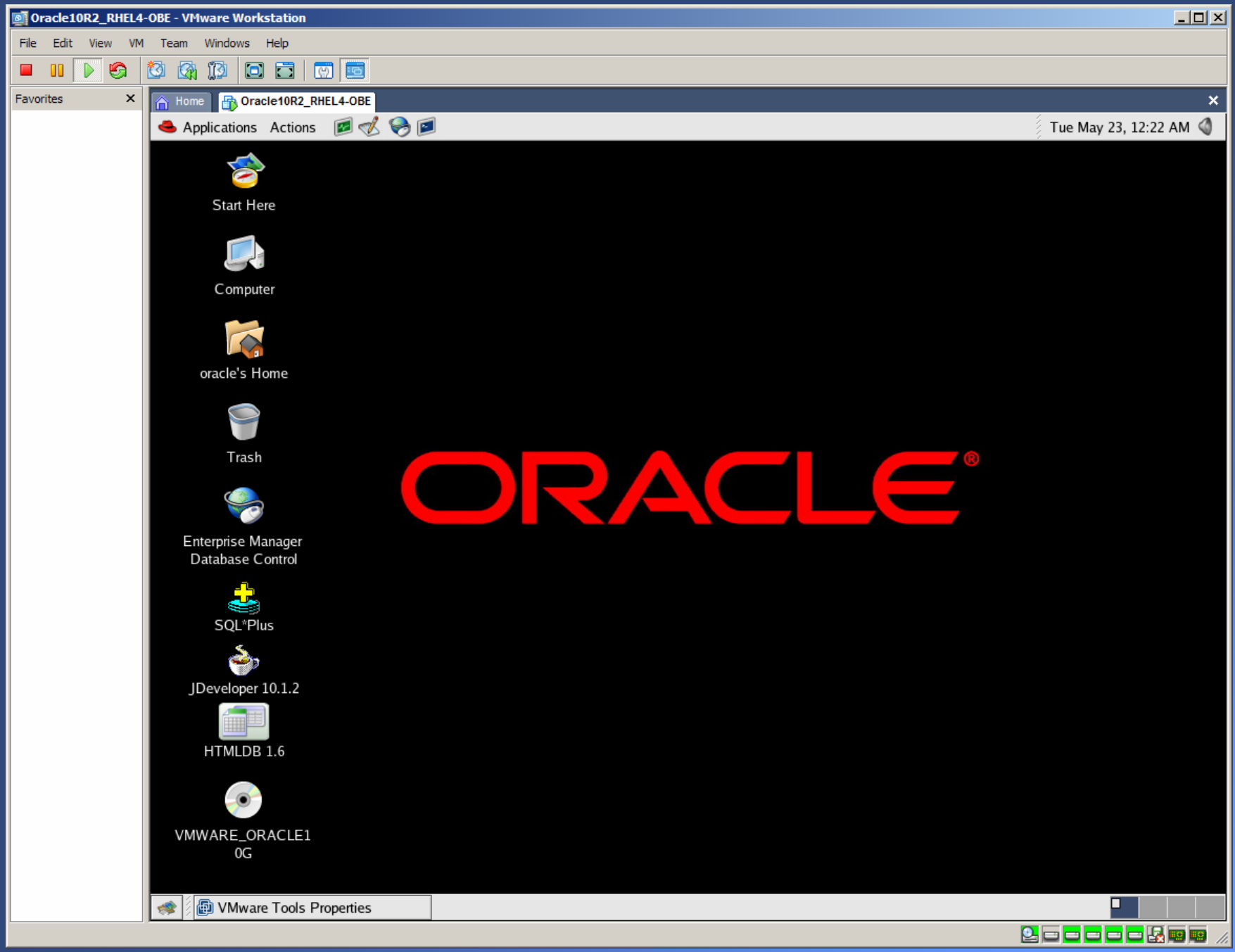
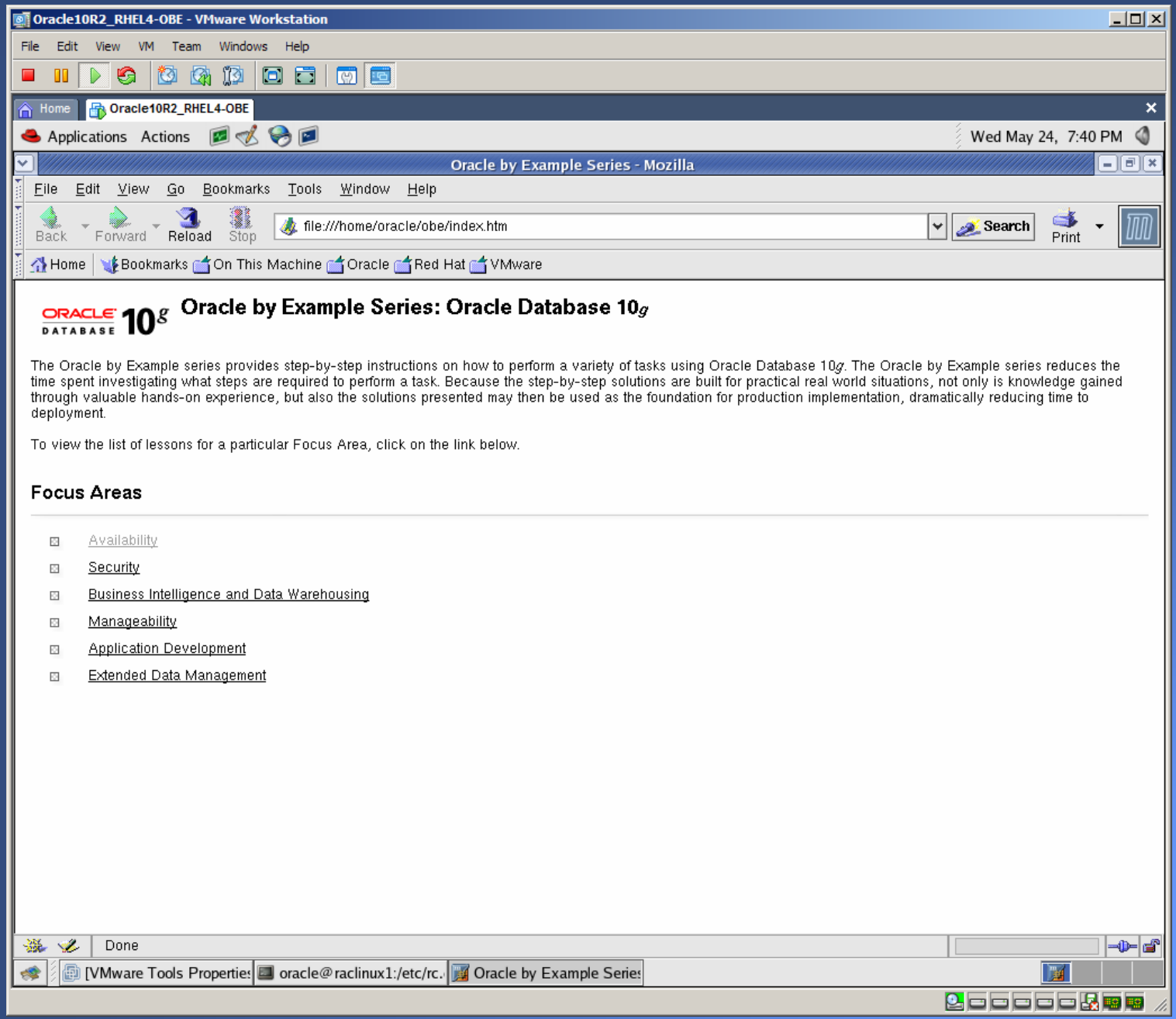
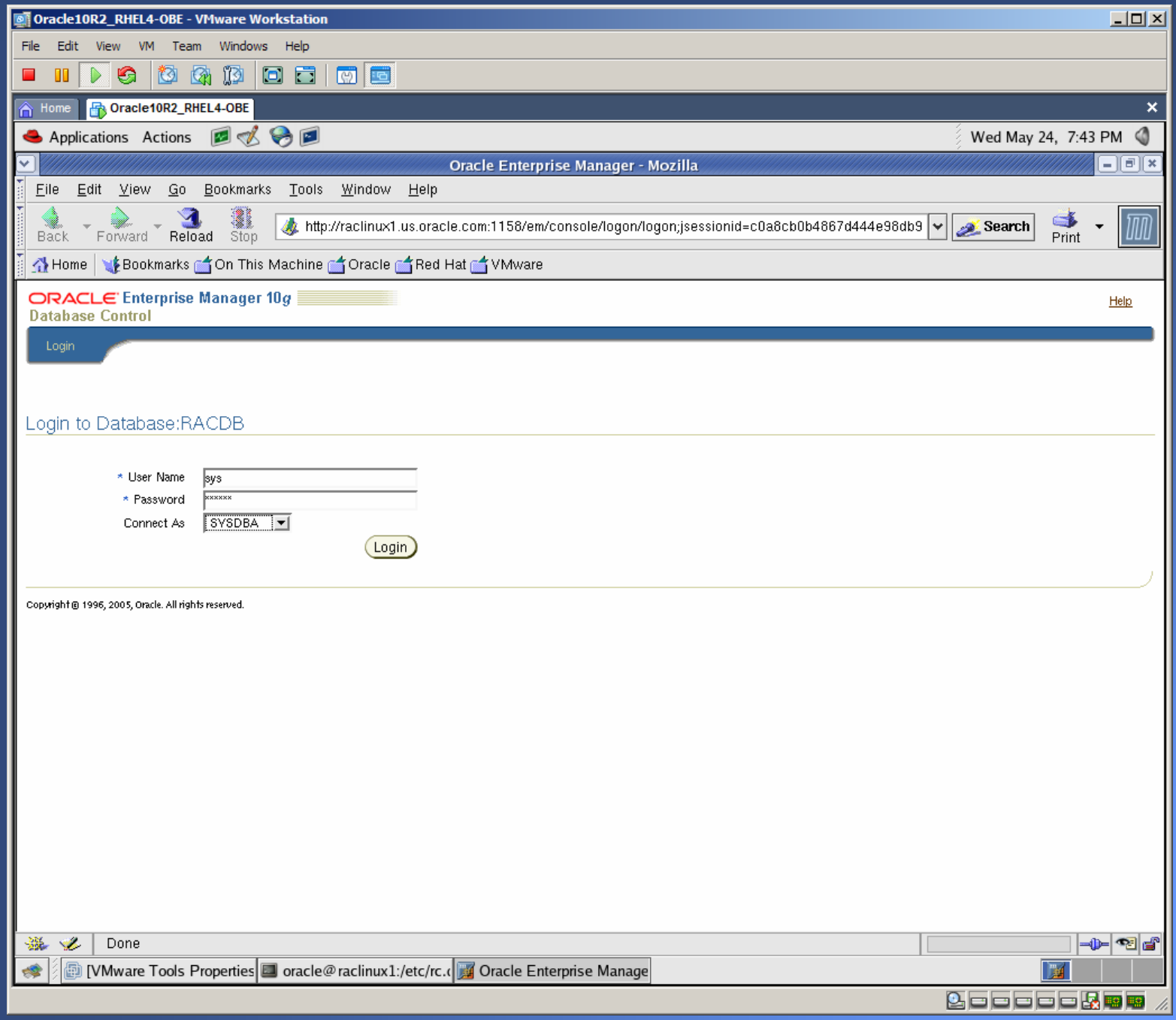
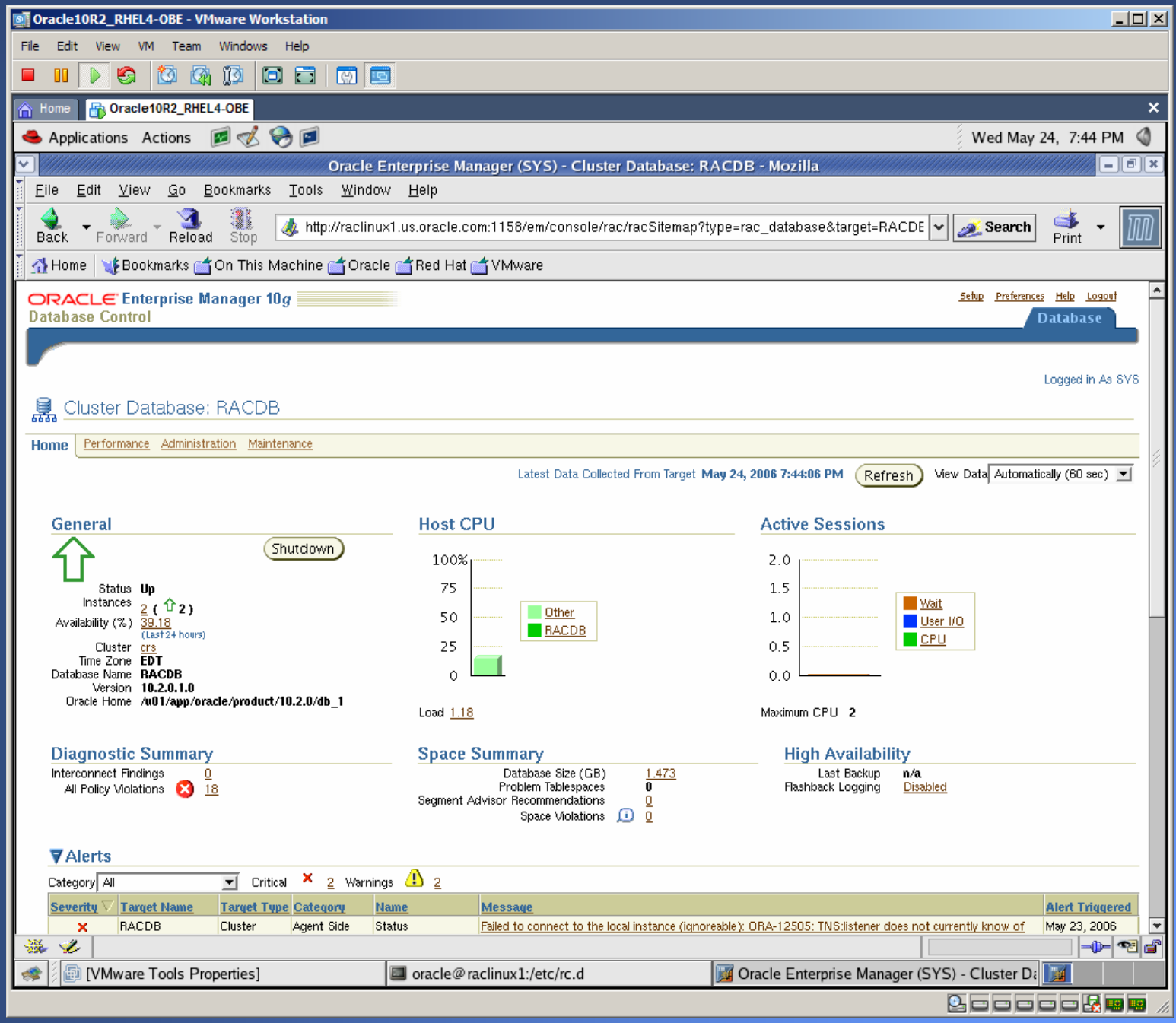
Oracle10R2_RHEL4-OBE
Oracle10R2_RHEL4-OBE
State: Powered off
Guest OS: Red Hat Enterprise Linux 4
Configuration file: C:\OracleVM_1\Oracle10R2_RHEL4-OBE.vmx
Version: Current virtual machine for VMware Workstation 5.0.0
Snapshot: Powered Down Snapshot
Commands
Start this virtual machine
Edit virtual machine settings
Clone this virtual machine
Devices
Memory 720 MB
Hard Disk (SCSI 0:0)
Hard Disk 2 (SCSI 0:1)
Hard Disk 3 (SCSI 0:2)
Hard Disk 4 (SCSI 0:3)
Hard Disk 5 (SCSI 0:4)
CD-ROM (IDE 1:0) Auto detect
Floppy Using drive A:
Notes
Red Hat Enterprise Linux 4 AS 2.6.9-5.EL (HZ=100)
Oracle Database Release 2 10.2.0.1
Real Application Clusters (RAC)
Oracle Clusterware and High Availability API
Automatic Storage Manager (ASM)
Oracle Secure Backup 4.1 beta build 050705
Oracle HTML DB 1.6.1.0.3
Oracle JDeveloper 10.1.2 Build 1811
Oracle Warehouse Builder 10.1.2

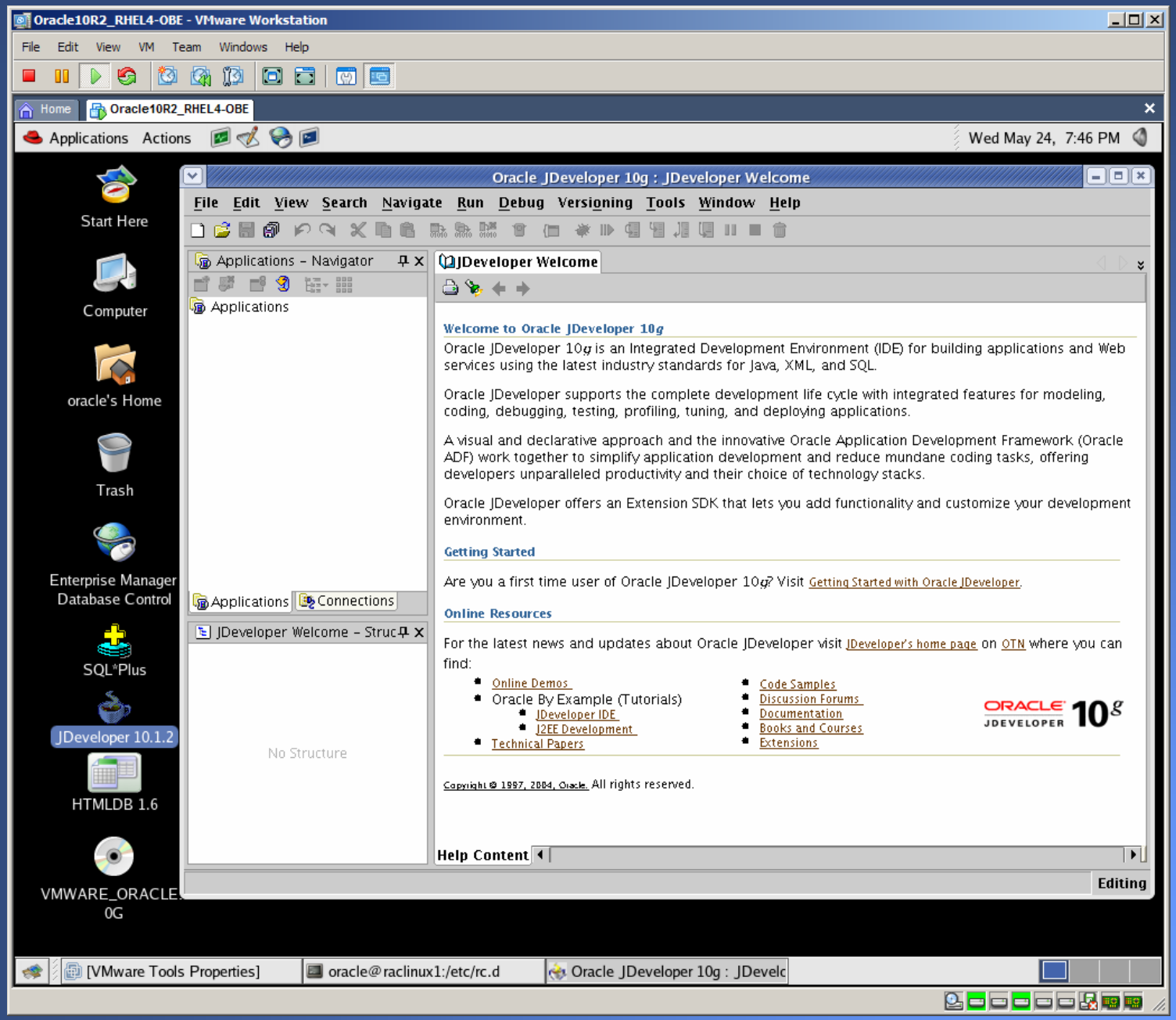

Oracle10R2_RHEL4-OBE - VMware Workstation
File Edit View VM Team Windows Help
Favorites
Home
Oracle10R2_RHEL4-OBE
Red Hat Enterprise Linux
Username: oracle
Please enter your username
redhat.
Language
Session
Reboot
Shut Down
raclinux1.us.oracle.com
Tue May 23, 12:15 AM


Oracle10R2_RHEL4-OBE - VMware Workstation
File Edit View VM Team Windows Help
Favorites
Home
Oracle10R2_RHEL4-OBE
Applications Actions
Tue May 23, 12:22 AM
Start Here
Computer
oracle's Home
Trash
Enterprise Manager Database Control
SQL*Plus
JDeveloper 10.1.2
HTMLDB 1.6
VMWARE_ORACLE10G
ORACLE
VMware Tools Properties


Oracle10R2_RHEL4-OBE - VMware Workstation
File Edit View VM Team Windows Help
Home
Oracle10R2_RHEL4-OBE
Applications Actions
Wed May 24, 7:40 PM
Oracle by Example Series - Mozilla
File Edit View Go Bookmarks Tools Window Help
Back Forward Reload Stop
file:///home/oracle/obe/index.htm
Search
Print
Home Bookmarks On This Machine Oracle Red Hat VMware
ORACLE DATABASE 10g
Oracle by Example Series: Oracle Database 10g
The Oracle by Example series provides step-by-step instructions on how to perform a variety of tasks using Oracle Database 10g. The Oracle by Example series reduces the time spent investigating what steps are required to perform a task. Because the step-by-step solutions are built for practical real world situations, not only is knowledge gained through valuable hands-on experience, but also the solutions presented may then be used as the foundation for production implementation, dramatically reducing time to deployment.
To view the list of lessons for a particular Focus Area, click on the link below.
Focus Areas
Availability
Security
Business Intelligence and Data Warehousing
Manageability
Application Development
Extended Data Management
Done
[VMware Tools Properties
oracle@raclinux1:/etc/rc.
Oracle by Example Series


Oracle10R2_RHEL4-OBE - VMware Workstation
File Edit View VM Team Windows Help
Home
Oracle10R2_RHEL4-OBE
Applications Actions
Wed May 24, 7:43 PM
Oracle Enterprise Manager - Mozilla
File Edit View Go Bookmarks Tools Window Help
Back Forward Reload Stop
http://raclinux1.us.oracle.com:1158/em/console/logon/logon;jsessionid=c0a8cb0b4867d444e98db9
Search
Print
Home Bookmarks On This Machine Oracle Red Hat VMware
ORACLE Enterprise Manager 10g
Database Control
Help
Login
Login to Database:RACDB
* User Name
sys
* Password
Connect As
SYSDBA
Login
Copyright © 1996, 2005, Oracle. All rights reserved.
Done
[VMware Tools Properties
oracle@raclinux1:/etc/rc.
Oracle Enterprise Manage


Oracle10R2_RHEL4-OBE - VMware Workstation
File Edit View VM Team Windows Help
Home
Oracle10R2_RHEL4-OBE
Applications Actions
Wed May 24, 7:44 PM
Oracle Enterprise Manager (SYS) - Cluster Database: RACDB - Mozilla
File Edit View Go Bookmarks Tools Window Help
Back Forward Reload Stop
http://raclinux1.us.oracle.com:1158/em/console/rac/racSitemap?type=rac_database&target=RACDE
Search
Print
Home Bookmarks On This Machine Oracle Red Hat VMware
ORACLE Enterprise Manager 10g
Database Control
Setup Preferences Help Logout
Database
Logged in As SYS
Cluster Database: RACDB
Home Performance Administration Maintenance
Latest Data Collected From Target May 24, 2006 7:44:06 PM
Refresh
View Data Automatically (60 sec)
General
Shutdown
Status Up
Instances 2 (2)
Availability (%) 39.18
(Last 24 hours)
Cluster crs
Time Zone EDT
Database Name RACDB
Version 10.2.0.1.0
Oracle Home /u01/app/oracle/product/10.2.0/db_1
Host CPU
100%
75
50
25
0
Other
RACDB
Load 1.18
Active Sessions
2.0
1.5
1.0
0.5
0.0
Wait
User I/O
CPU
Maximum CPU 2
Diagnostic Summary
Interconnect Findings 0
All Policy Violations 18
Space Summary
Database Size (GB) 1,473
Problem Tablespaces 0
Segment Advisor Recommendations 0
Space Violations 0
High Availability
Last Backup n/a
Flashback Logging Disabled
Alerts
Category All
Critical 2
Warnings 2
Severity
Target Name
Target Type
Category
Name
Message
Alert Triggered
RACDB
Cluster
Agent Side
Status
Failed to connect to the local instance (ignoreable): ORA-12505: TNS:listener does not currently know of
May 23, 2006
[VMware Tools Properties]
oracle@raclinux1:/etc/rc.d
Oracle Enterprise Manager (SYS) - Cluster D


Oracle10R2_RHEL4-OBE - VMware Workstation
File Edit View VM Team Windows Help
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Oracle10R2_RHEL4-OBE
Applications Actions
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Start Here
Computer
oracle's Home
Trash
Enterprise Manager Database Control
SQL*Plus
JDeveloper 10.1.2
HTMLDB 1.6
VMWARE_ORACLE 0G
Oracle JDeveloper 10g : JDeveloper Welcome
File Edit View Search Navigate Run Debug Versioning Tools Window Help
Applications - Navigator
Applications
Applications Connections
JDeveloper Welcome - Struc
No Structure
JDeveloper Welcome
Welcome to Oracle JDeveloper 10g
Oracle JDeveloper 10g is an Integrated Development Environment (IDE) for building applications and Web services using the latest industry standards for Java, XML, and SQL.
Oracle JDeveloper supports the complete development life cycle with integrated features for modeling, coding, debugging, testing, profiling, tuning, and deploying applications.
A visual and declarative approach and the innovative Oracle Application Development Framework (Oracle ADF) work together to simplify application development and reduce mundane coding tasks, offering developers unparalleled productivity and their choice of technology stacks.
Oracle JDeveloper offers an Extension SDK that lets you add functionality and customize your development environment.
Getting Started
Are you a first time user of Oracle JDeveloper 10g? Visit Getting Started with Oracle JDeveloper.
Online Resources
For the latest news and updates about Oracle JDeveloper visit JDeveloper's home page on OTN where you can find:
Online Demos
Oracle By Example (Tutorials)
JDeveloper IDE
J2EE Development
Technical Papers
Code Samples
Discussion Forums
Documentation
Books and Courses
Extensions
ORACLE JDEVELOPER 10g
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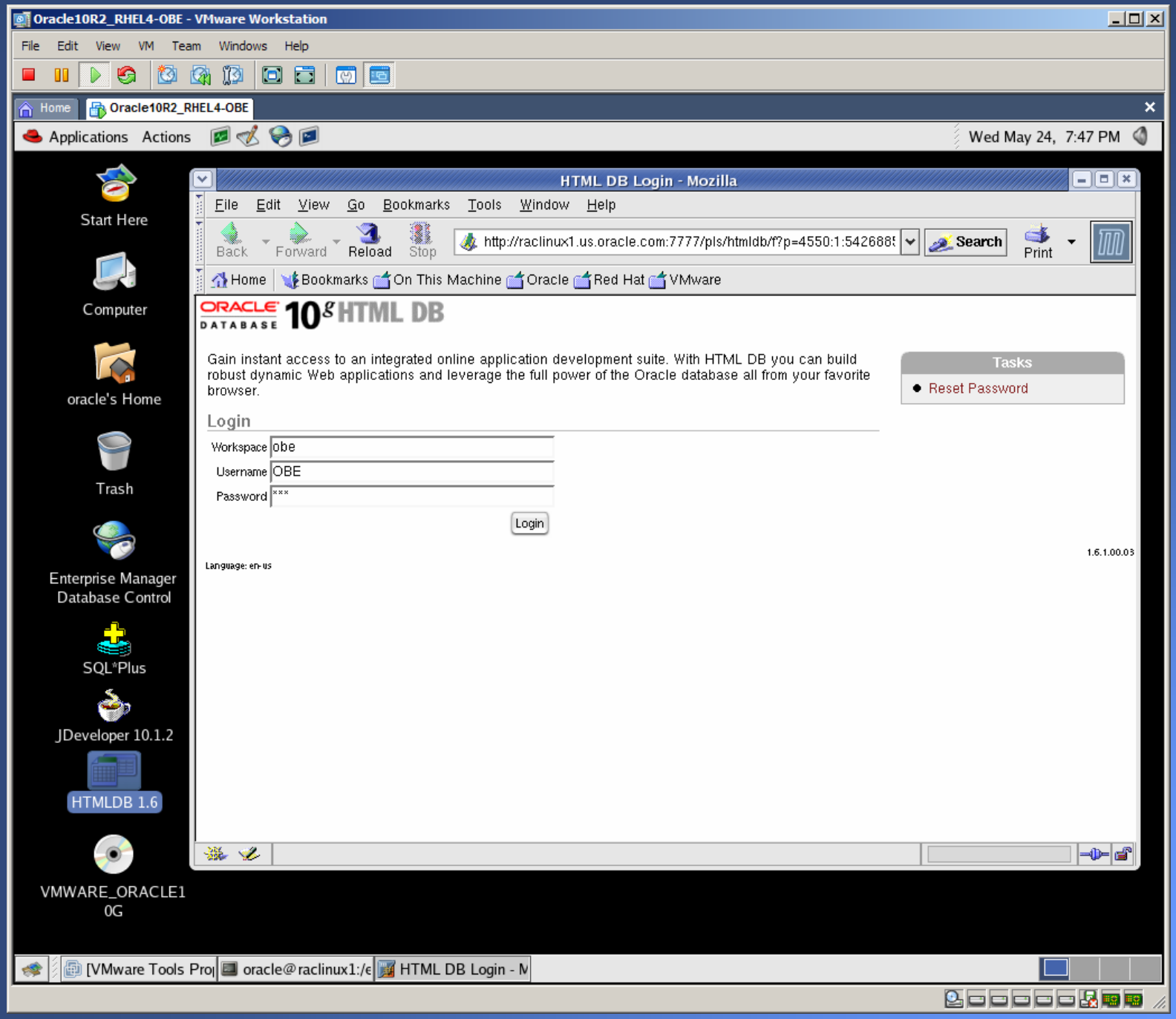
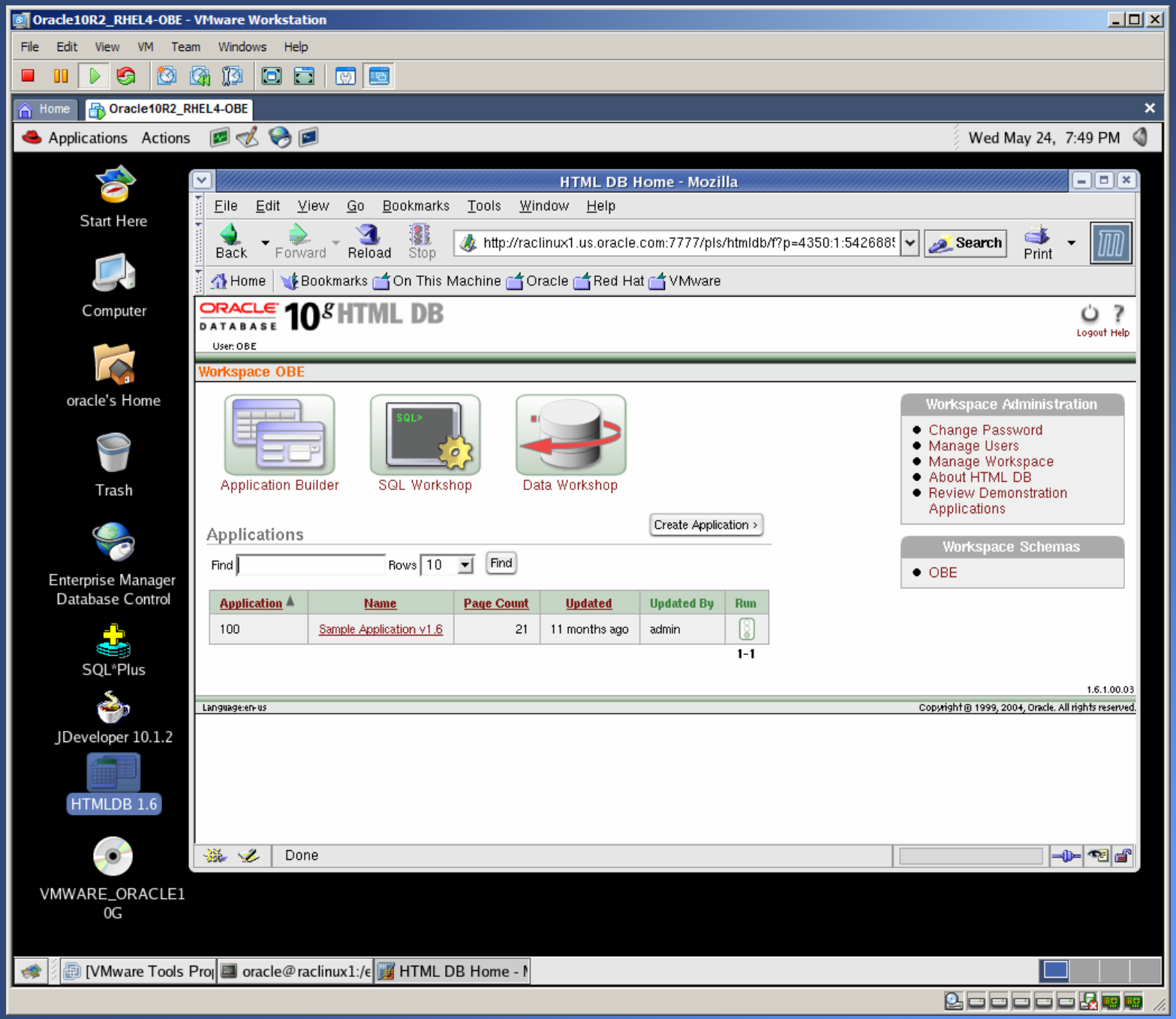
Help Content
Editing
[VMware Tools Properties]
oracle@raclinux1:/etc/rc.d
Oracle JDeveloper 10g : JDevelc


Oracle10R2_RHEL4-OBE - VMware Workstation
File Edit View VM Team Windows Help
Home
Oracle10R2_RHEL4-OBE
Applications Actions
Wed May 24, 7:47 PM
Start Here
Computer
oracle's Home
Trash
Enterprise Manager Database Control
SQL*Plus
JDeveloper 10.1.2
HTMLDB 1.6
VMWARE_ORACLE10G
HTML DB Login - Mozilla
File Edit View Go Bookmarks Tools Window Help
Back Forward Reload Stop
http://raclinux1.us.oracle.com:7777/pls/htmldb/f?p=4550:1:5426885
Search
Print
Home Bookmarks On This Machine Oracle Red Hat VMware
ORACLE DATABASE 10g HTML DB
Gain instant access to an integrated online application development suite. With HTML DB you can build robust dynamic Web applications and leverage the full power of the Oracle database all from your favorite browser.
Tasks
Reset Password
Login
Workspace obe
Username OBE
Password ***
Login
1.6.1.00.03
Language: en-us
[VMware Tools Pro
oracle@raclinux1:/e
HTML DB Login - M


Oracle10R2_RHEL4-OBE - VMware Workstation
File Edit View VM Team Windows Help
Home
Oracle10R2_RHEL4-OBE
Applications Actions
Wed May 24, 7:49 PM
Start Here
Computer
oracle's Home
Trash
Enterprise Manager Database Control
SQL*Plus
JDeveloper 10.1.2
HTMLDB 1.6
VMWARE_ORACLE10G
HTML DB Home - Mozilla
File Edit View Go Bookmarks Tools Window Help
Back Forward Reload Stop
http://raclinux1.us.oracle.com:7777/pls/htmldb/f?p=4350:1:542688
Search
Print
Home Bookmarks On This Machine Oracle Red Hat VMware
ORACLE DATABASE 10g HTML DB
User: OBE
Logout Help
Workspace OBE
Application Builder
SQL Workshop
Data Workshop
Workspace Administration
Change Password
Manage Users
Manage Workspace
About HTML DB
Review Demonstration Applications
Workspace Schemas
OBE
Applications
Create Application ›
Find Rows 10 Find
Application Name Page Count Updated Updated By Run
100 Sample Application v1.6 21 11 months ago admin
1-1
1.6.1.00.03
Language:en-us
Copyright © 1999, 2004, Oracle. All rights reserved.
Done
[VMware Tools Pro
oracle@raclinux1:/e
HTML DB Home - M

Passwords

Account Type	User Name	Password
OS	root	oracle
OS	oracle	oracle
DB admin	SYS	oracle
DB admin	SYSTEM	oracle
HR user	HR	hr
OE user	OE	oe
SH user	SH	sh
HTML DB user	OBE	obe (workspace obe)
Secure Backup admin	admin	<no password>

All account passwords are set to oracle unless otherwise specified.

Useful Notes

- O/S startup script: /etc/rc.d/rc.local
- User startup script: ~oracle/.bashrc
- CRS automatically starts RAC
- Cluster status: crs_stat2
- Manual instance startup:
  svrctl start instance –d RACDB –I RACDB1
  svrctl start instance –d RACDB –I RACDB2
- IP: 192.168.203.11 & 192.168.203.111
- Service name: RACDB (port 1521)

Make It Stop!

A safe shutdown is performed just like on a real Linux server:

1) Open a terminal window
2) su - {password: oracle}
3) /sbin/shutdown –h now

Monthly
4th Thursday
6pm – 8pm

IBM Center
Rocky Point

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