interface
TECH | IMMERSION

Enterprise Exchange Management with PowerShell

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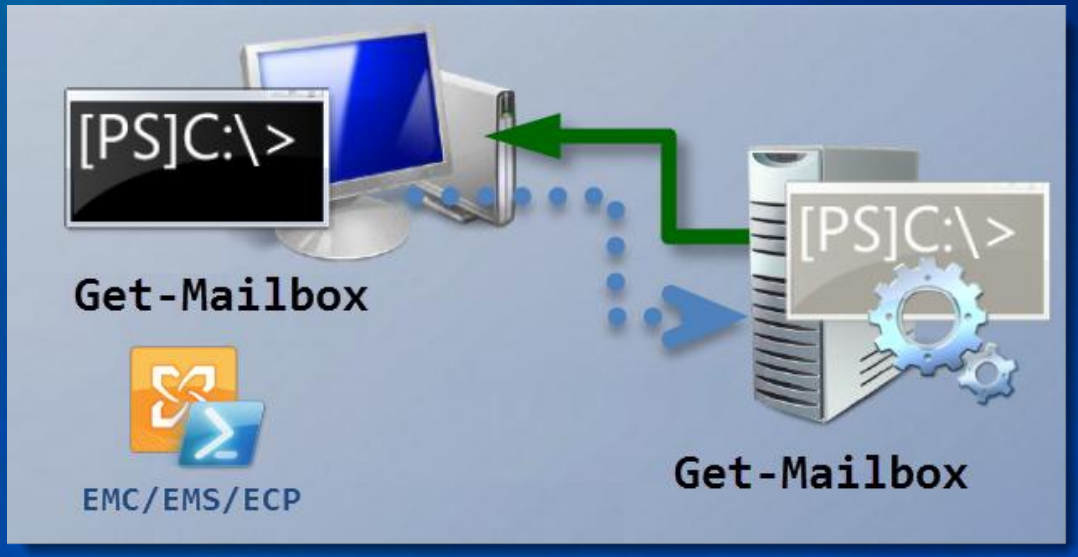
Systems Instructor
Interface Technical Training

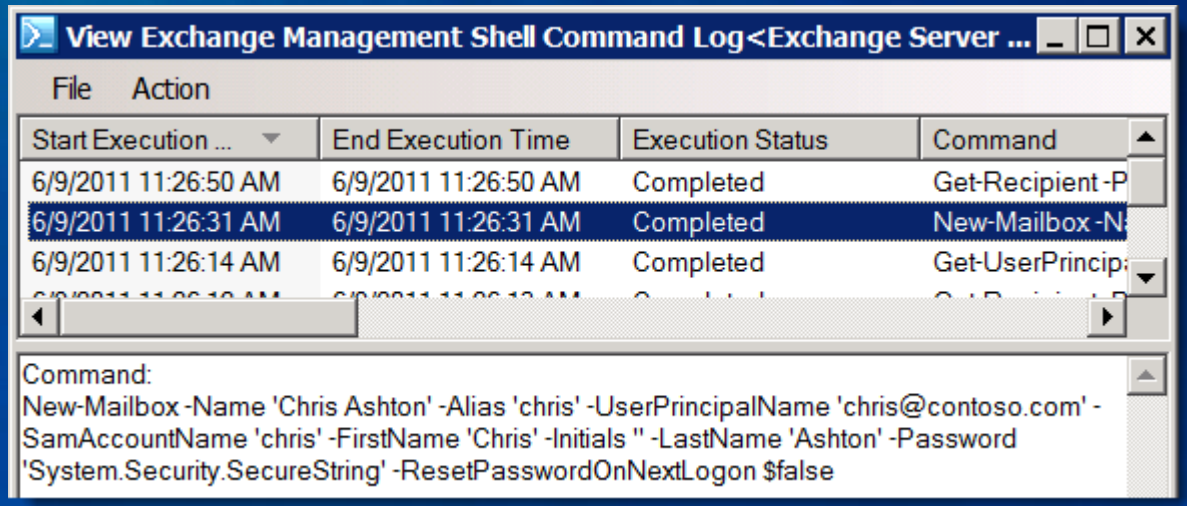
Management Tools Architecture

- PowerShell v2 & WinRM
- All Exchange 2010 Management Tools Built on Remote PowerShell
- Can be run with or without tools installed



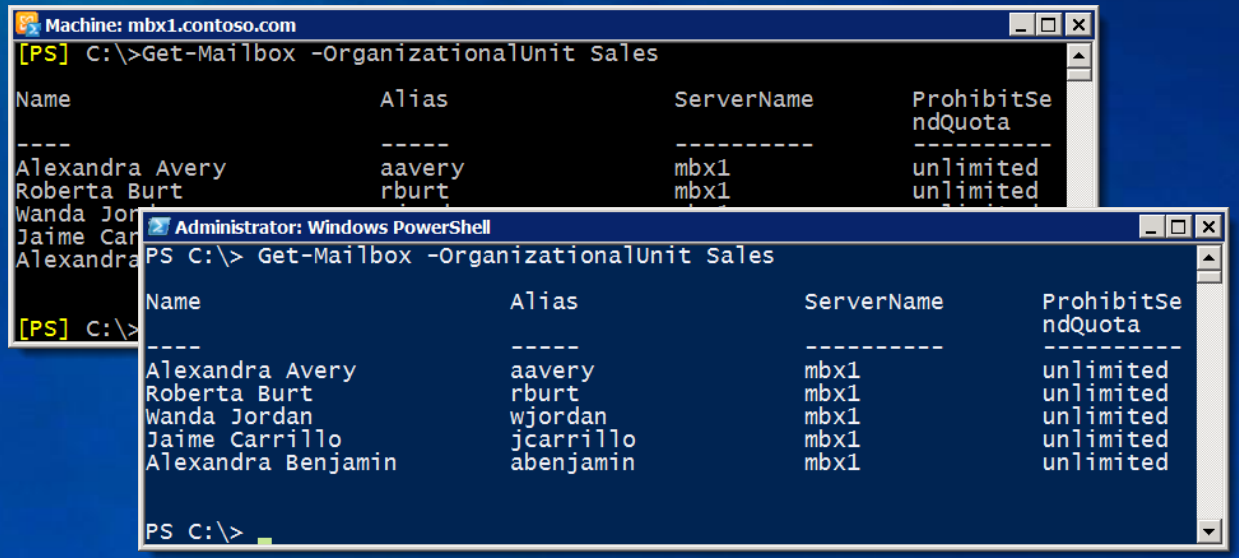
Command Exposure

- EMC Command Button
- EMS Commands in Wizards
- EMS Command Logging



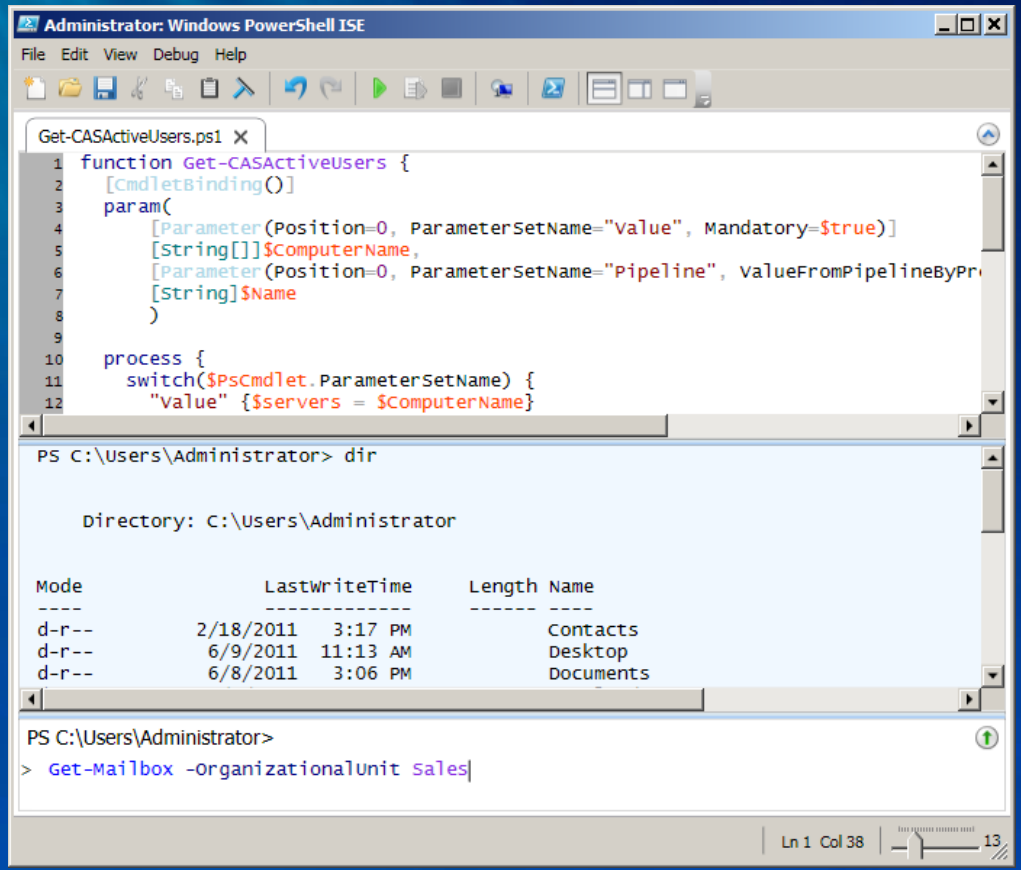
Remoting

- Entire Toolset Built on Remoting
- Can Configure Manually:
  - On-Premise
  - Office 365



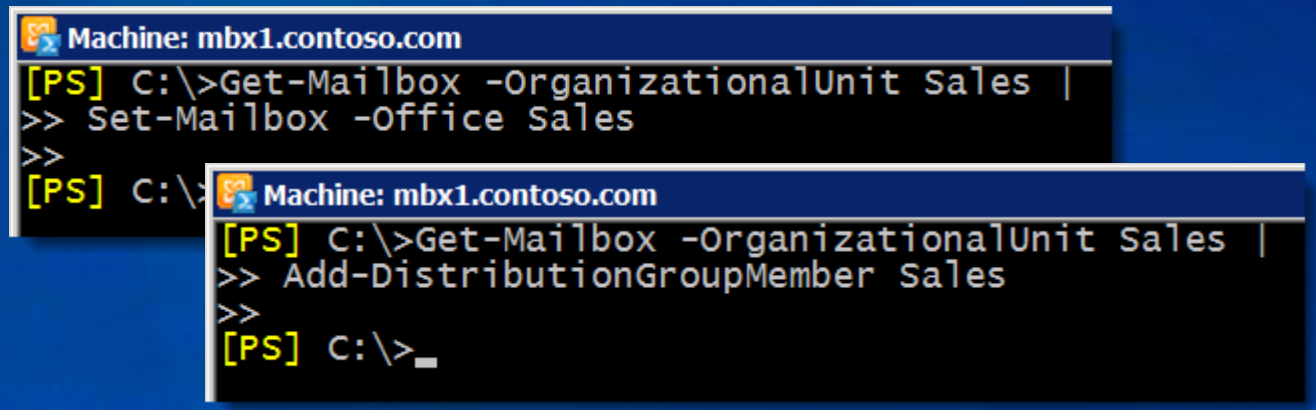
Scripting

- Task Automation
- Save as .ps1
- Execution Policy
- Script Editors
  - PowerShell ISE
  - PowerGUI



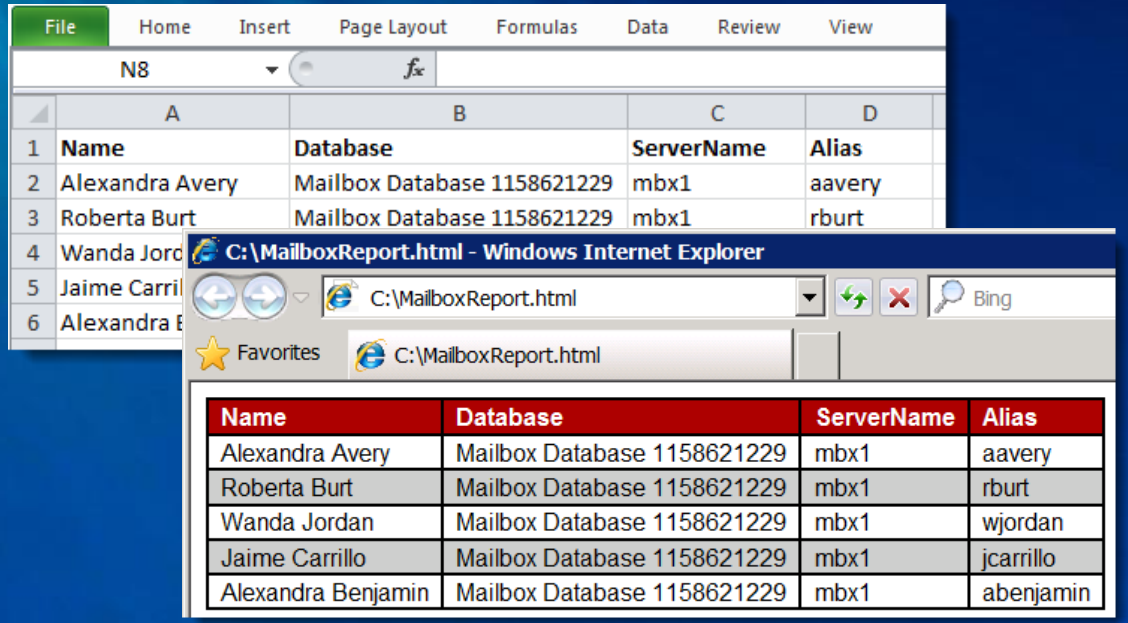
Bulk Operations

- Some cmdlets designed to work together
- Make use of the PowerShell Pipeline
- Understand Looping Constructs



Reporting

- Export to Text
- Export to CSV
- Export to HTML
- Send as E-Mails



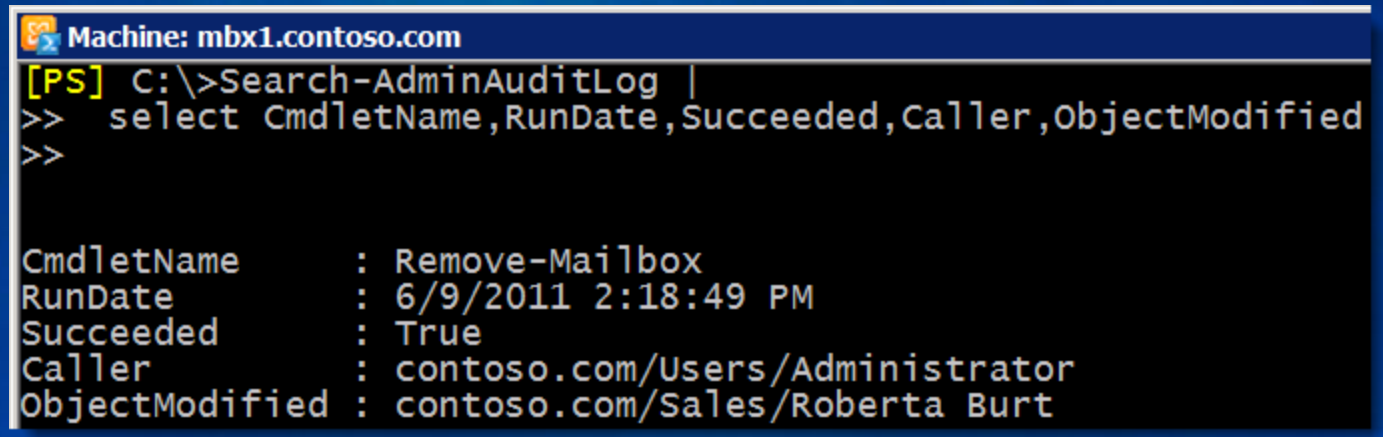
Script Automation

- Schedule Scripts with Task Scheduler
- Use Scripting Agent

```
<?xml version="1.0" encoding="utf-8" ?>
<Configuration version="1.0">
 <Feature Name="MailboxProvisioning" Cmdlets="New-Mailbox">
  <ApiCall Name="OnComplete">
   if($succeeded) {
    $mailbox = $provisioningHandler.UserSpecifiedParameters["Name"]
    Set-Mailbox $mailbox -SingleItemRecoveryEnabled $true
   }
  </ApiCall>
 </Feature>
</Configuration>
```

Auditing

- Administrator Audit Logging
- Mailbox Audit Logging



Best Practices & Useful Techniques

- Use a Script Editor
- Use Full Command Names in Scripts
- Use Comments in Code
- Utilize the Help System:
  - Get-Help <cmdlet> -Full
  - Get-Help <cmdlet> -Examples
- Use Get-Command and GetExCommand for Discovery

Exchange 2010 PowerShell Cookbook

- Bulk Operations
- Reporting & Alerting
- Script Automation
- Auditing
- Monitoring & Troubleshooting
- and more…

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Thank You!

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