knowledge17

http://clabs.link/lab131988

WORK at LIGHTSPEED

Zero to Cloud in One Hour with ServiceNow Cloud Management

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servicenow

Objectives and What You Will Learn

Objectives

- Set up a Cloud Account
- Consume a Cloud resource in a Self-Service fashion

What you will learn

- The basics of Cloud Management on the ServiceNow platform
- How to integrate ServiceNow with Microsoft Azure
- How to set up a catalog item based on Azure Resource Manager (ARM) templates

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Speaker Introduction



Name: Zack Sargent

Title: Technical Marketing Engineer

Function: Videos, demos, and English-to-English translation

Company: ServiceNow

Experience: 20+ years in various IT roles; 9 years presales/marketing engineer

Expertise: Cloud, Automation, Networking

Achievements: Has left behind architectures that out-live tenure at companies by 10-15 years.

Current Projects: Launching Cloud Management for Jakarta release. Focused on self-enablement for Cloud Management, both internally at ServiceNow as well as for customers.

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My Company



Name: Murali Mohan Dingari

Title: Sr. Advisory Consultant

Function: Solution Consulting, Pre-Sales, IT Operations Management, Cloud and Automation

Company: ServiceNow

Experience: 18+ years in IT Industry in various roles ; 8 years as Pre-Sales/Solution Architect

Expertise: Cloud and Orchestration, Process Automation, Network Automation, DevOps

Achievements: Helped many fortune 500 Customers in achieving their business goals in IT Operations Management, published multiple papers on cloud and orchestration.

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Building the right abstractions for enterprise grade cloud workloads

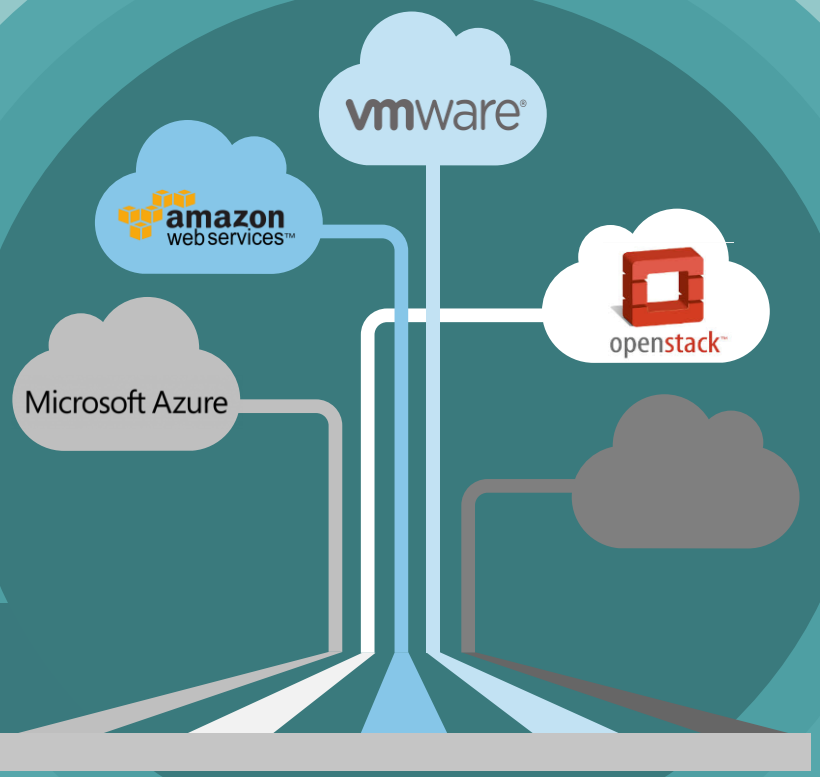
POLICY

CLOUD CATALOG

BLUEPRINTS

RESOURCE BLOCKS

CLOUD API



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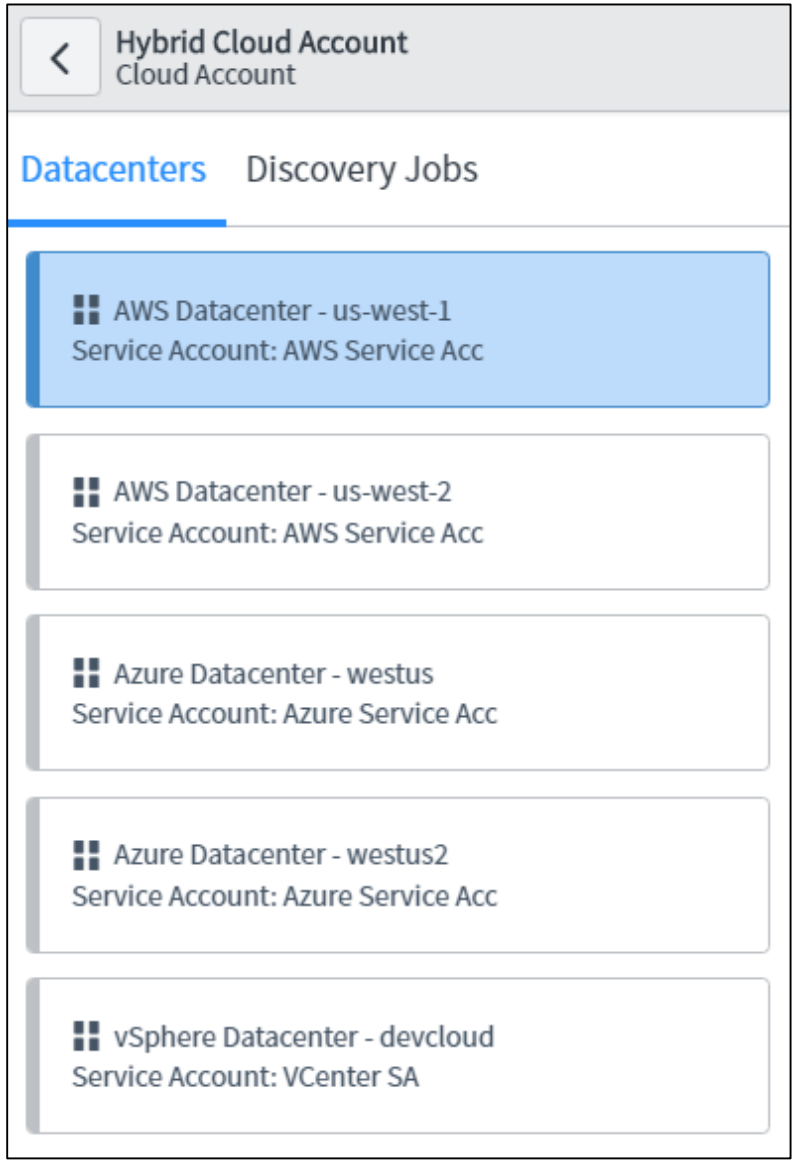
Glossary

- ServiceNow **Cloud Management Platform** (CMP) is the plugin through which enterprises can manage their clouds. The clouds could be internal or public or hybrid. ServiceNow CMP has governance as a first class member so that enterprises can build their own hybrid clouds.
- At a high level CMP has the following high-level components:
- **Cloud API** – This is the connector layer to any cloud. It is polyglot and can talk to any cloud. The Cloud API executes on the MID server. Cloud APIs can be extended in field.
- **Resource Blocks** – Resource Blocks abstract the functionality of a cloud element (like Virtual Server, Load Balancer) and provide a mechanism to delegate provider specific functionality to Cloud API's. Resource blocks write data back into the CI it is defined against. Resource blocks can be extended in field.
- **Blueprint** – Blueprint is a template for deployment and management of workloads. They get assembled using the resource blocks. Deployment and management gets delegated to the resource blocks. Most of the work is done via auto generation and designers can customize it as needed. Blueprints can be described in a YAML format and the system can create blueprints based on that. Blueprint can be specific to a cloud or can be agnostic. Blueprints obviously are field extendable.
- **Catalog Item** – Catalog items are created out of a blueprint so that the end user can consume it.
- **Stack** – Stack is a realized instance of a blueprint in the cloud. It has information about the resource instances that it contains. Stacks can be managed via the life cycle operations.

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Cloud Accounts

- Cloud Accounts are an abstract collection of pieces of various clouds
- Credentials are needed for each of the clouds contributing to the Cloud Account
- Logical Datacenters belong to Cloud Accounts
  - The example at right has 2 AWS, 2 Azure, and 1 Vmware datacenter associated with it
- Discovery is tied to Cloud Accounts



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Azure Resource Manager templates

- "Infrastructure as Code"
  - Manage infrastructure versions
  - Portable code to various solutions (Azure integrated)
- Consistency of deployment
- Many existing templates to modify

From docs.microsoft.com:

With Resource Manager, you can create a template (in JSON format) that defines the infrastructure and configuration of your Azure solution. By using a template, you can repeatedly deploy your solution throughout its lifecycle and have confidence your resources are deployed in a consistent state.

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Top Takeaways

1

How to start Discovering your cloud today

2

How to create a Catalog item you can use today

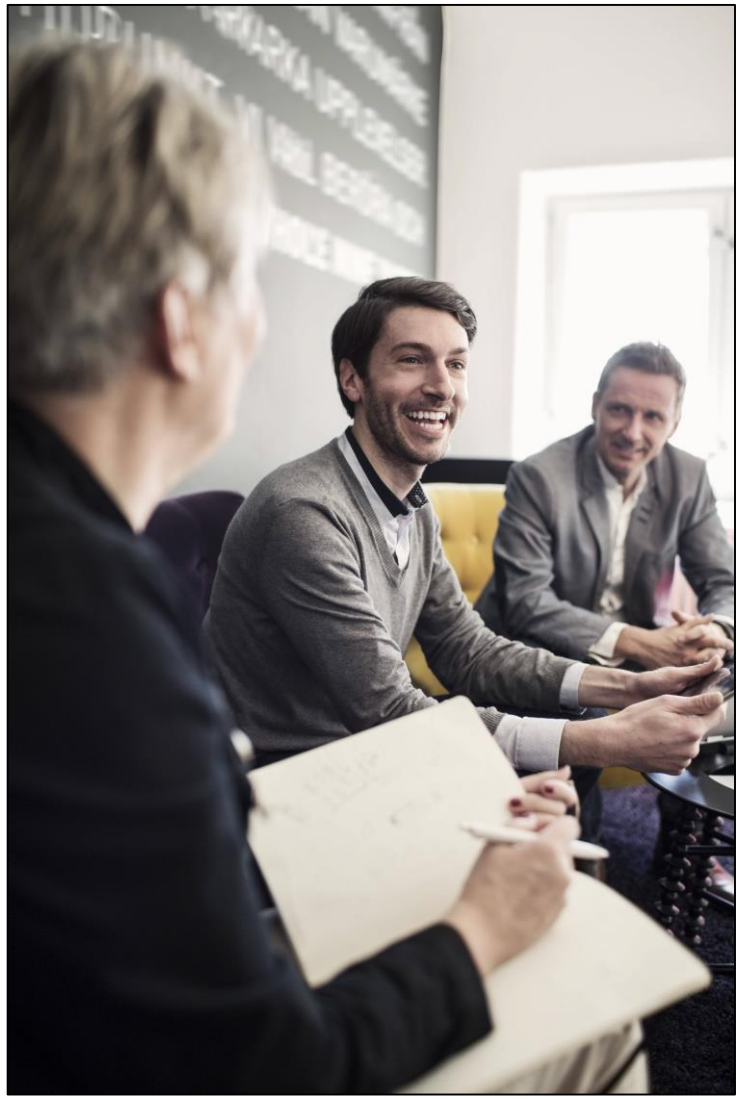
3

Self-Service user experience with ServiceNow makes Cloud easy

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Resources

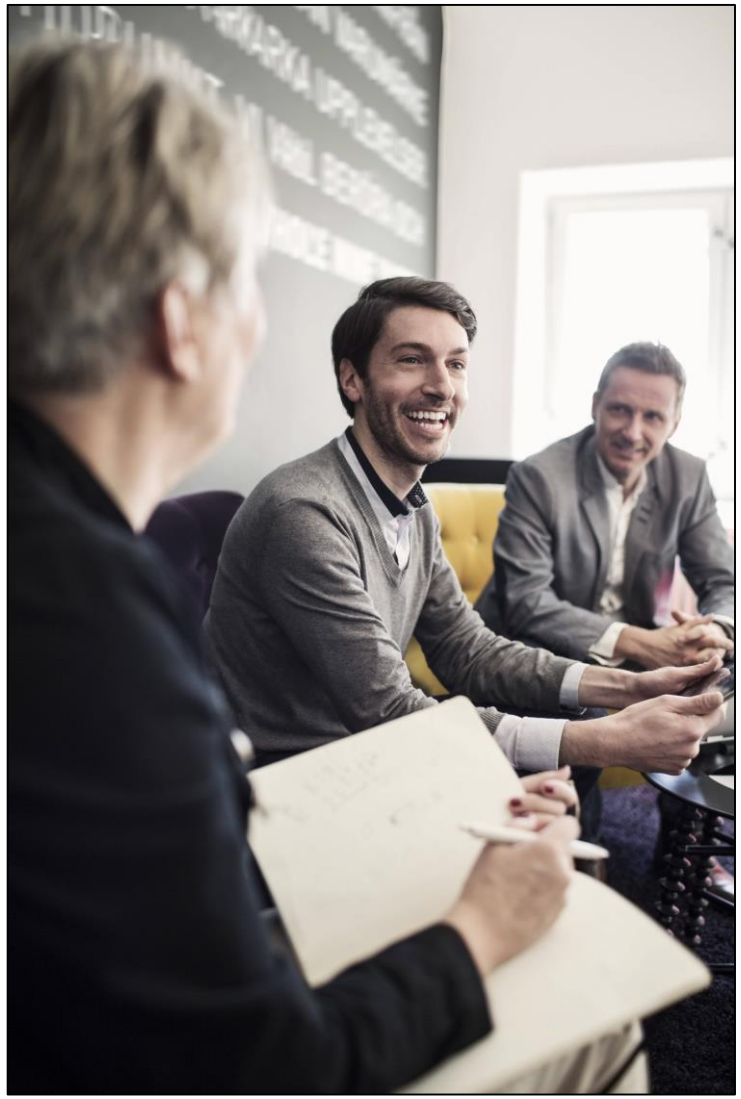
- Known good ARM, CFT, and YAML templates
  - https://github.com/servicenow-cloud-management
- Microsoft Azure inspirations
  - ARM Overview - https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-overview
  - Quick Start Templates - https://github.com/Azure/azure-quickstart-templates
  - Azure Building Blocks - https://github.com/mspnp/template-building-blocks
  - Azure Reference Architectures - https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/
- Amazon Web Services inspirations
  - CFT Overview – http://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/Welcome.html
  - AWS Quick Starts - https://aws.amazon.com/quickstart/



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Next Steps

- Visit us in the Pavilion for a live demo today!
- Register for Cloud Management Labs
  - LAB131988 - Zero to Cloud in an hour with ServiceNow CloudManagement
  - LAB131991 - Cloud Operating Model: Do it your way
  - LAB131989 - Designing Cloud agnostic workloads
  - LAB131990 - Extend your CMP : Build a new connector to a cloudprovider
- Attend Cloud Management Breakout Sessions
  - BRE4116 - What's New in the ServiceNow Cloud Management Platform
  - BRE4111 - Self-Service Access to Enterprise-Grade Cloud Workloads
  - BRE132916 - Cloud Success with ServiceNow and Microsoft Azure
  - BRE4102 - Designing Cloud Portable Workloads
  - BRE4104 - Enterprise Cloud Governance: Achieving Agility With Guardrails
- For early access, please email your presenter
  - zack.sargent@servicenow.con
- As an attendee of this session you will receive an invitation to our upcoming **June 8, 2017** and **June 15, 2017** Webinars



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Lab

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Azure Credentials

- In progress

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Thank You

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Q & A

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