Using Generative Al to Troubleshoot Linux

Gain Access to Generative Al

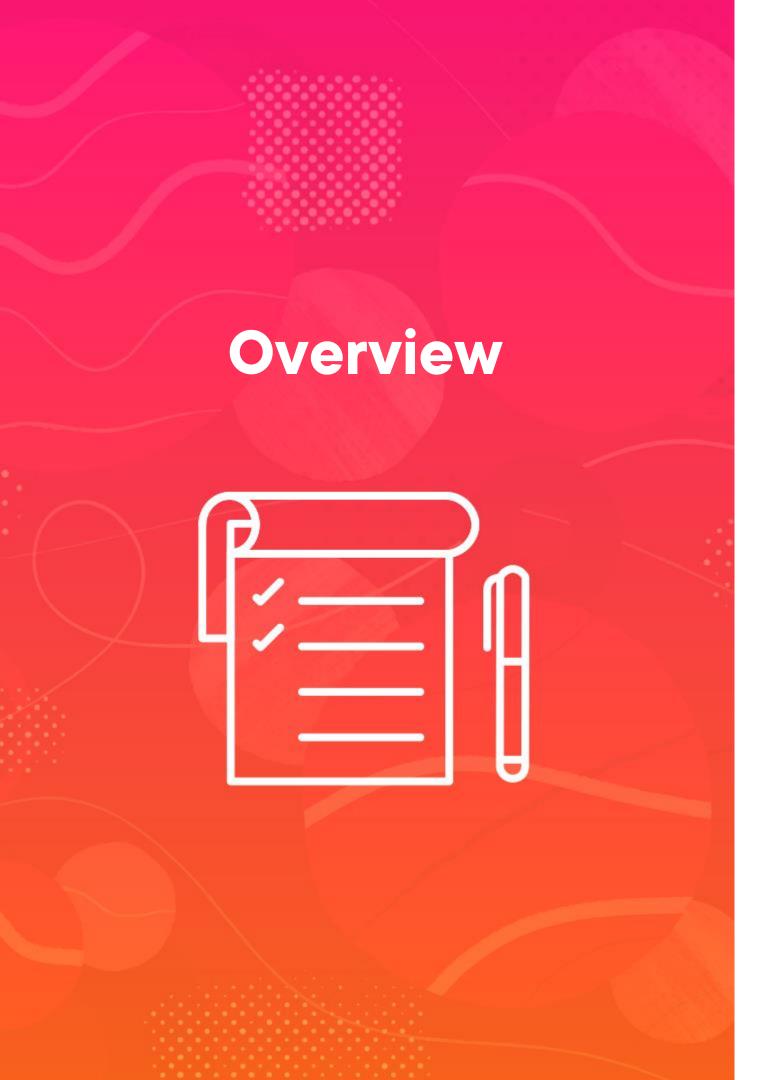


Tim Warner

Principal Author, Pluralsight

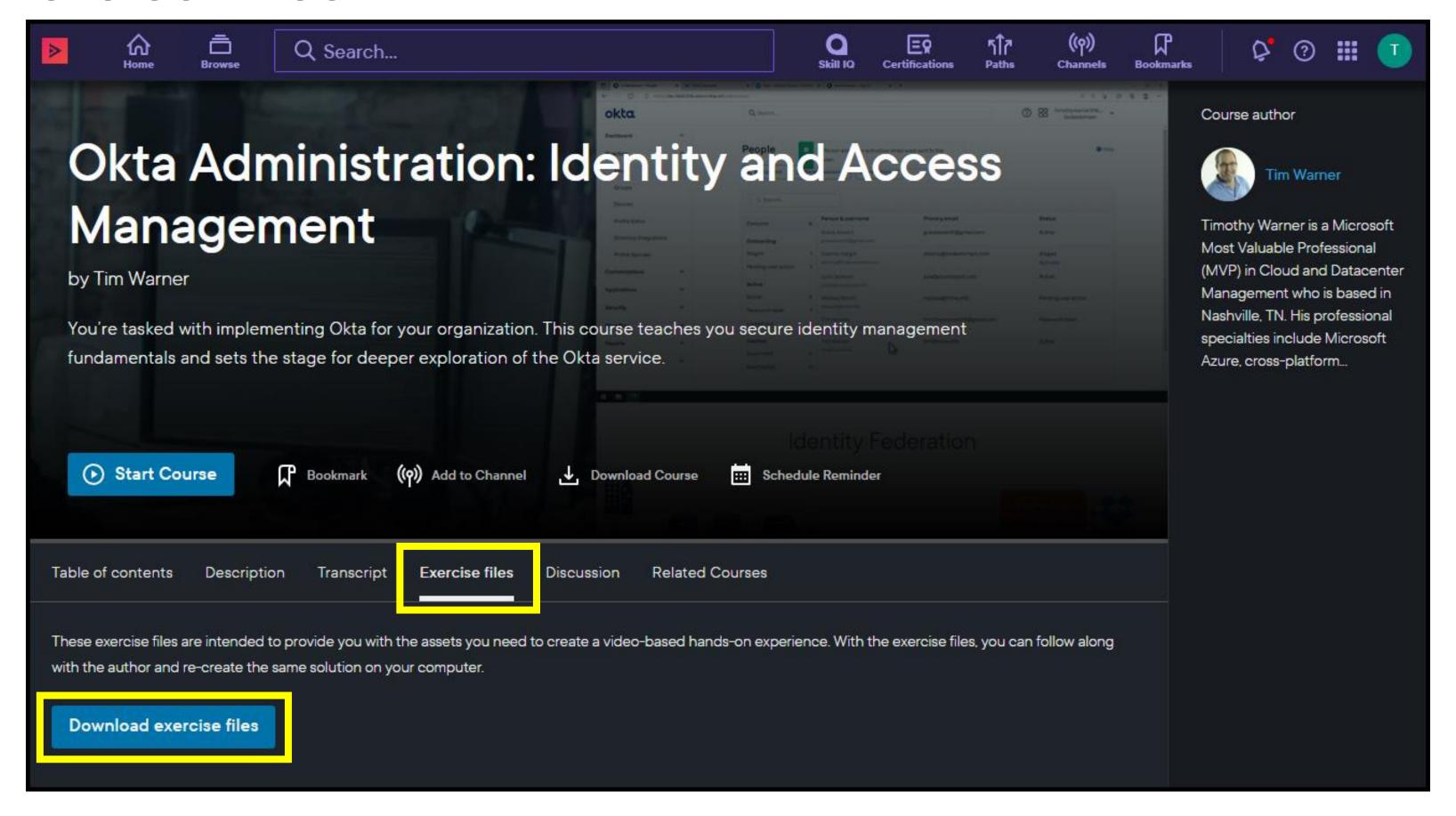
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Introduce generative Al
Review the OpenAl models
Get started with OpenAl
Begin with Azure OpenAl Service

Exercise Files





Introduce Generative Al



Generative Al

A type of artificial intelligence (AI) that creates new content, such as images or text, that resembles existing examples, much like an artist might create a new painting inspired by previous works.



OpenAl

An Al research lab consisting of the for-profit OpenAl LP and the non-profit OpenAl Inc. It conducts research in a transparent and collaborative manner, aiming to ensure that artificial general intelligence (AGI) benefits all of humanity.



How Does Gen Al Relate To Linux Troubleshooting?

Reduced Googling

Less reliance on Overflow sites

Focused "mentor" just for you

Faster resolutions than ever before



The open source advantage

GPT has knowledge of all open-source code repositories (especially GitHub)



The Gen Al Competitive Landscape

Google Bard (LaMDA) **Amazon Bedrock Apple GPT** Meta Llama 2 **IBM Watson**



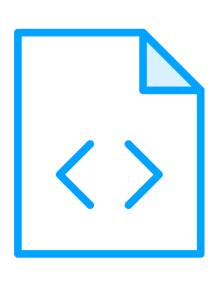
Review OpenAl Models



OpenAl's Generative Al Models









GPT Text

ChatGPT
Conversational
text

Codex
Source code
gpt-3.5-turbo

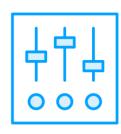
DALL-E Images



Microsoft Azure OpenAl Service



Microsoft cloud-hosted OpenAl models (GPT-4, GPT-3, DALL-E, Embeddings)



Fine-tune your models with your own internal line-of-business data



Secure off-Internet access via the Azure Private Link service



Native integration with Azure Resource Manager and MS Graph



Get Started with OpenAl



OpenAl ChatGPT



chat.openai.com

Need a free OpenAl account

Free tier: GPT-3.5, no plugins

Plus tier: GPT-4, plugins, beta features

Al may "hallucinate," providing inaccurate information

Never, ever share sensitive data in the public ChatGPT endpoint

How to Access the ChatGPT API

Public web application

chat.openai.com

Consume the API directly

PAYG

platform.openai.com

Azure OpenAl Service

PAYG

portal.azure.com



Demo



Access from Ubuntu Desktop

ChatGPT

OpenAl APIs & Playground

Begin with Azure OpenAl Service



Why Azure OpenAl Service?



Cloud-hosted, private access to your own OpenAl models

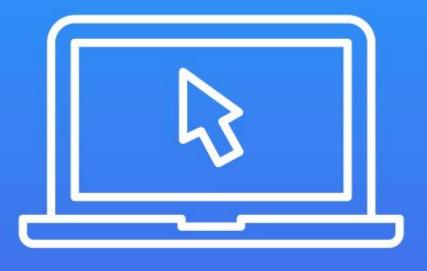
Fine-tuning

More than 50 percent of all Azure compute cores are Linux

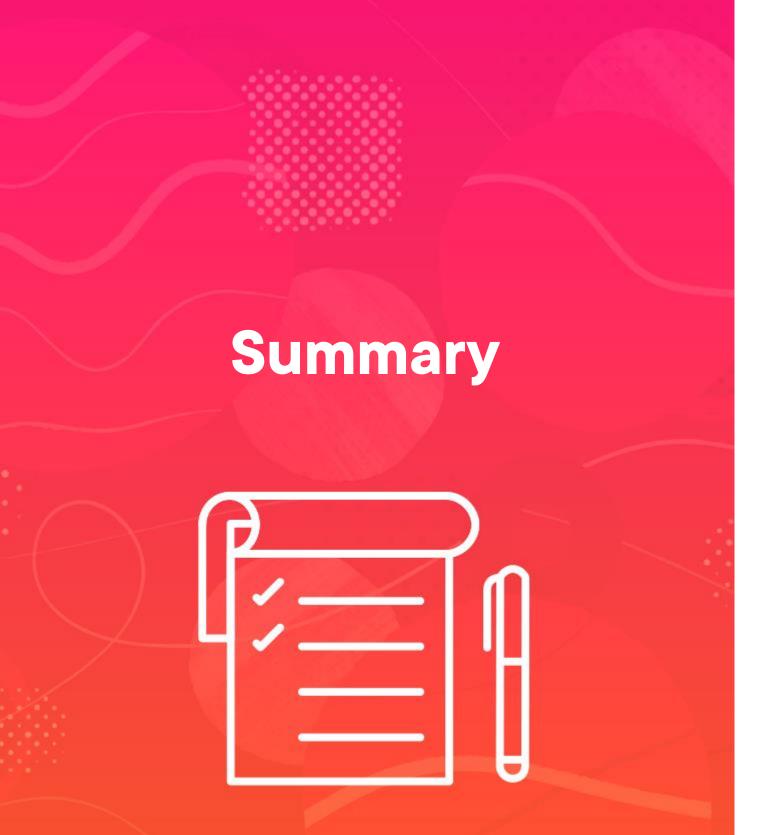
- Red Hat
- SUSE
- Ubuntu
- CenOS
- Debian
- CoreOS



Demo



Azure OpenAl Service & Playground



Two choices for accessing ChatGPT:

- OpenAl
- Microsoft

Once you're logged into ChatGPT, you're ready to proceed

Up Next:

Troubleshoot Linux with ChatGPT

